

DATA BOOK

MICRO INVERTER PACKAGED AIR-CONDITIONERS

140VSAWTVH

(Split system, air to air heat pump type)

CEILING CASSETTE-4 WAY TYPE

Triple type Single type Twin type FDT100VNAWVH FDT100VNAWPVH FDT140VNAWTVH 100VSAWVH 100VSAWPVH 125VNAWVH 125VNAWPVH 125VSAWPVH 125VSAWVH 140VNAWPVH 140VNAWVH 140VSAWVH 140VSAWPVH

CEILING CASSETTE-4 WAY COMPACT TYPE

Twin type Triple type FDTC100VNAWPVH FDTC140VNAWTVH 100VSAWPVH 140VSAWTVH 125VNAWPVH 125VSAWPVH

DUCT CONNECTED-HIGH STATIC PRESSURE TYPE

Single type FDU100VNAWVH 100VSAWVH 125VNAWVH 125VSAWVH 140VNAWVH 140VSAWVH

DUCT CONNECTED-LOW/MIDDLE STATIC PRESSURE TYPE

Single type Triple type Twin type FDUM100VNAWPVH FDUM140VNAWTVH FDUM100VNAWVH 100VSAWVH 100VSAWPVH 140VSAWTVH 125VNAWVH 125VNAWPVH 125VSAWVH 125VSAWPVH 140VNAWVH 140VNAWPVH

140VSAWPVH

CEILING SUSPENDED TYPE

Single type Twin type Triple type FDE100VNAWVH FDE100VNAWPVH FDE140VNAWTVH 100VSAWPVH 100VSAWVH 140VSAWTVH 125VNAWVH 125VNAWPVH 125VSAWPVH 125VSAWVH 140VNAWVH 140VNAWPVH

140VSAWPVH

WALL MOUNTED TYPE

140VSAWVH

Single type **Triple type** Twin type SRK100VNAWZR SRK100VNAWPZSX SRK140VNAWTZSX 100VSAWZR 100VSAWPZSX 140VSAWTZSX 125VNAWPZSX 125VSAWPZSX

140VNAWPZR

140VSAWPZR

V Multi System

140VSAWVH

140VSA-W

(OUTDOOR UNIT) (INDOOR UNIT) FDC100VNA-W FDT50VH FDE50VH 100VSA-W 60VH 60VH 125VNA-W 71VH **71VH** 125VSA-W 140VNA-W

MITSUBISHI HEAVY INDUSTRIES THERMAL SYSTEMS, LTD.

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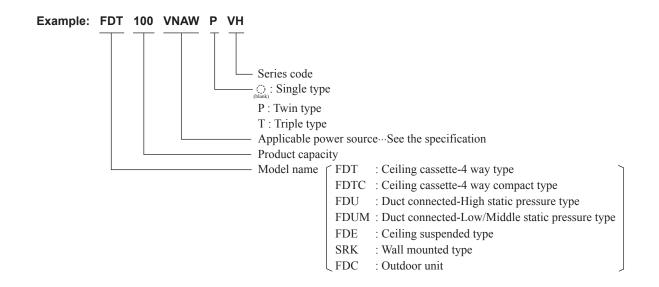
1. MICRO INVERTER PACKAGED AIR-CONDITIONERS

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■How to read the model name



1.1 SPECIFICATIONS

(1) Ceiling cassette-4 way type (FDT)

(a) Single type

Item			Model		Outdoor unit FDC100VNA-W
Power source				Indoor unit FDT100VH	V 50Hz / 220V 60Hz
Power source			kW	<u>'</u>	
	Nominal cooling capacity (range		kW		.) - 11.2(Max.)]
	Nominal heating capacity (range	· -	KVV		.) - 12.5(Max.)] 73
	Power consumption	Cooling Heating	H kW H		.73 .54
	May navor consumption	rieating	-		40
	Max power consumption	Cooling			/ 13.8
	Running current	Cooling Heating	\vdash A \vdash		
	In the second se				/ 13.0
Operation	Inrush current, max current	0 11			24
data	Power factor	Cooling	- % -		90
		Heating			39
	EER	Cooling			66
	СОР	Heating		4.	41
	Sound power level	Cooling	_	62	69
		Heating	┥ ┝		70
	Sound pressure level	Cooling	dB(A)	P-Hi: 47 Hi: 39 Me: 36 Lo: 30	54
		Heating	_	P-Hi: 47 Hi: 39 Me: 36 Lo: 29	55
	Silent mode sound pressure le	evel			48 /44(Normal/Silent)
Exterior dimer	nsions (Height x Width x Depth)		mm	Unit 298 x 840 x 840 Panel 35 x 950 x 950	845x970x370
Exterior appea	arance			Plaster white	Stucco white
Munsell color)			(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent
RAL color)				(RAL 9003) near equivalent	(RAL 7044) near equivalent
Net weight			kg	Unit 25 Panel 5	77
Compressor to	ype & Q'ty			_	RMT5126SWP3 x 1
	motor (Starting method)		kW	_	Direct line start
Refrigerant oil	I (Amount, type)		L	_	0.9 (M-MB75)
Refrigerant (T	ype, amount, pre-charge length)		kg	R32 3.30 in outdoor unit (incl.	the amount for the piping of 30m)
Heat exchang	er			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant co	ontrol			Electronic ex	pansion valve
an type & Q'	ty			Turbo fan x1	Propeller fan x1
an motor (St	arting method)		W	140 < Direct line start >	86 < Direct line start >
Air flow		Cooling Heating	m³/min	P-Hi: 37 Hi: 26 Me: 23 Lo: 17	75 73
Available exte	rnal static pressure	1	Pa	0	0
Outside air int	· · · · · · · · · · · · · · · · · · ·		+	Possible	_
Air filter, Quali				Pocket plastic net x1(Washable)	_
	ition absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compresso
Electric heater	r		w	_	20(Crank case heater)
	Remote control			(Option) Wired: RC-EX3A . RC-E5	, RCH-E3 Wireless : RCN-T-5AW-E2
Operation	Room temperature control			Thermostat by electronics	
control	Operation display				=
Safety equipm				Frost protecti Internal thermos	tion for fan motor on thermostat stat for fan motor emperature protection
	Refrigerant piping size (O.D)	Liquid line	mm	I/U φ 9.52 (3/8") Pipe φ 9.5.	2 (3/8")x0.8 Ο/U φ 9.52 (3/8")
	Composition as all and	Gas line		, , , , ,	88(5/8")x1.0
	Connecting method			Flare piping	Flare piping
nstallation	Attached length of piping		m	_	_
lata	Insulation for piping				Liquid & Gas lines)
	Refrigerant line (one way) leng		m		x.50
	Vertical height diff. between O/U	and I/U	m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)
	Drain hose			Hose connectable with VP25(O.D.32)	Hole size φ 20 x 3pcs
	nay lift hoight		mm	Built-in drain pump , 850	_
Orain pump, n	nax iiit neignt		1		_
	ed breaker size		A		
Recommende			A		5.0
Recommende R.A. (Locked	ed breaker size d rotor ampere)	ore number			6.0 / Terminal block (Screw fixing type)
Recommende R.A. (Locked nterconnectin	ed breaker size d rotor ampere)	ore number			
	ed breaker size d rotor ampere) ng wires Size x C	ore number		ϕ 1.6mm x3 cores + earth cable	/ Terminal block (Screw fixing type)

Notes (1) The data are measured at the following conditions.

ne pipe length is 7.5m.	
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Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Staridards
Cooling	27°C	19℃	35°C	24°C	ISO5151-T1
Heating	20°C	-	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

			Model		VSAWVH
tem				Indoor unit FDT100VH	Outdoor unit FDC100VSA-W
Power source				3 Phase, 380 - 415\	V 50Hz / 380V 60Hz
	Nominal cooling capacity (rang	je)	kW	10.0 [4.0(Min	.) - 11.2(Max.)]
	Nominal heating capacity (rang	je)	kW	11.2 [4.0(Min	.) - 12.5(Max.)]
		Cooling		2.	73
	Power consumption	Heating	kW	2.	54
	Max power consumption	<u> </u>	-	10	.20
	Max pewer concumption	Cooling			/ 4.4
	Running current	Heating	\vdash \land \vdash		/ 4.1
	Inrush current, max current	neating	⊣ ^ ⊢		15
Operation	Infusit current, max current	0 15		,	
lata	Power factor	Cooling	- % -		14
		Heating			3
	EER	Cooling	_		66
	COP	Heating		4.	41
	Sound power level	Cooling		62	69
	Souria power level	Heating		02	70
		Cooling	dB(A)	P-Hi: 47 Hi: 39 Me: 36 Lo: 30	54
	Sound pressure level	Heating	7 `	P-Hi: 47 Hi: 39 Me: 36 Lo: 29	55
	Silent mode sound pressure le		┦ ├		48 /44(Normal/Silent)
	· · · · · · · · · · · · · · · · · · ·		+ +	Unit 298 x 840 x 840	· · · · · · · · · · · · · · · · · · ·
xterior dimer	nsions (Height x Width x Depth)		mm	Panel 35 x 950 x 950	845x970x370
xterior appea	arance		+ +	Plaster white	Stucco white
Munsell color				(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent
RAL color)	,			(RAL 9003) near equivalent	(RAL 7044) near equivalent
et weight			kg	Unit 25 Panel 5	78
	and a g Older		kg	Unit 25 Fanel 5	RMT5126SWP4 x 1
ompressor ty	<u> </u>				1 11
	notor (Starting method)		kW	<u> </u>	Direct line start
efrigerant oil	(Amount, type)		L		0.9 (M-MB75)
efrigerant (T	ype, amount, pre-charge length)		kg	R32 3.30 in outdoor unit (incl. t	the amount for the piping of 30m)
eat exchang	er			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
efrigerant co	ntrol			Electronic ex	pansion valve
an type & Q'1	ty			Turbo fan x1	Propeller fan x1
an motor (Sta	arting method)		W	140 < Direct line start >	86 < Direct line start >
	,	Cooling	2		75
ir flow		Heating	m³/min	P-Hi: 37 Hi: 26 Me: 23 Lo: 17	73
vailable exte	rnal static pressure	Trouting	Pa	0	0
utside air int	· · · · · · · · · · · · · · · · · · ·		ı a	Possible	_
					_
ir filter, Qualit				Pocket plastic net x1(Washable)	_
	tion absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compres
ectric heater			W		20(Crank case heater)
noration	Remote control			(Option) Wired: RC-EX3A, RC-E5,	RCH-E3 Wireless : RCN-T-5AW-E2
peration ontrol	Room temperature control			Thermostat b	by electronics
oniti Oi	Operation display			-	
				Overload protect	tion for fan motor
afety equipm	aonto			Frost protection	on thermostat
alety equipit	ierits				stat for fan motor
		,			emperature protection
	Refrigerant piping size (O.D)	Liquid line	mm –	I/U φ 9.52 (3/8") Pipe φ 9.52	
	Listing Grant Piping Size (O.D)	Gas line		φ 15.88 (5/8") Pipe φ 15.8	88(5/8")x1.0 φ 15.88 (5/8")
	Connecting method			Flare piping	Flare piping
stallation	Attached length of piping		m	_	_
ata	Insulation for piping		+ +	Nacassan/ (both I	l Liquid & Gas lines)
		ıth.	+ m	, (
	Refrigerant line (one way) leng		m	Max 50 (Outdoor unit is higher)	t
	Vertical height diff. between O/U a	ina I/U	m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)
	Drain hose			Hose connectable with VP25(O.D.32)	Hole size φ 20 x 3pcs
ain pump, n	nax lift height		mm	Built-in drain pump , 850	
ecommende	d breaker size		A		-
R.A. (Locked	d rotor ampere)		А	5	.0
terconnectin		ore number	1		Terminal block (Screw fixing type)
number	[S.125 X O.		+ +	IPX0	IP24
	ecorios		+ +	Mounting kit, Drain hose	_
andard acco					
tandard acce ption parts	53301163		+ +	-	ı pr : LB-T-5W-E

The pipe length is 7.5m.

Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.

Item			Model	Indoor unit FDT125VH	Outdoor unit FDC125VNA-W
Power source					OV 50Hz / 220V 60Hz
i ower source	Nominal cooling capacity (range	(ar	kW	,	n.) - 14.0(Max.)]
	Nominal heating capacity (range		kW		n.) - 16.0(Max.)]
	Norminal fleating capacity (rang	Cooling	KVV		.05
	Power consumption	Heating	H kW H		.59
	May power consumption	rieating	-	·	
	Max power consumption				.40
	Running current	Cooling	┦ . ⊢		/ 19.6
		Heating	_ A _		/ 17.5
Operation	Inrush current, max current				, 24
data	Power factor	Cooling	- % -		94
		Heating	,,,		93
	EER	Cooling			.09
	COP	Heating		3	.90
	Sound power level	Cooling		63	71
	Sourid power level	Heating		64	71
		Cooling	dB(A)	P-Hi: 48 Hi: 41 Me: 39 Lo: 31	54
	Sound pressure level	Heating	7	P-Hi: 48 Hi: 41 Me: 38 Lo: 31	56
	Silent mode sound pressure le	vel	1	_	48 /45(Normal/Silent)
				Unit 298 x 840 x 840	,
xterior dimer	nsions (Height x Width x Depth)		mm	Panel 35 x 950 x 950	845x970x370
Exterior appea	arance			Plaster white	Stucco white
Munsell color				(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent
RAL color)	•			(RAL 9003) near equivalent	(RAL 7044) near equivalent
let weight			kg	Unit 25 Panel 5	77
compressor ty	ype & Q'ty			_	RMT5126SWP3 x 1
	notor (Starting method)		kW	_	Direct line start
	(Amount, type)		L	_	0.9 (M-MB75)
	ype, amount, pre-charge length)		kg	R32_3_30 in outdoor unit (incl	the amount for the piping of 30m)
leat exchange			- Ng	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant co			+	<u> </u>	cpansion valve
			+	Turbo fan x1	
an type & Q't	<u>*</u>		144		Propeller fan x1
an motor (Sta	arting method)	To 1:	W	140 < Direct line start >	86 < Direct line start >
Air flow		Cooling	m³/min	P-Hi: 38 Hi: 28 Me: 25 Lo: 18	75
		Heating			73
	rnal static pressure		Pa	0	0
Outside air int				Possible	_
Air filter, Qualit	· · · · · · · · · · · · · · · · · · ·			Pocket plastic net x1(Washable)	_
Shock & vibra	tion absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compresse
Electric heater	<u>r</u>		W	_	20(Crank case heater)
	Remote control			(Option) Wired: RC-EX3A, RC-E5	, RCH-E3 Wireless : RCN-T-5AW-E2
Operation control	Room temperature control			Thermostat by electronics	
Ontroi	Operation display				_
				Overload protect	tion for fan motor
Safety equipm	nents			•	ion thermostat
odioty oquipii	101110				stat for fan motor
		T			temperature protection
	Refrigerant piping size (O.D)	Liquid line	mm –	. , , ,	52 (3/8")x0.8 O/U φ 9.52 (3/8")
		Gas line			.88(5/8")x1.0 φ 15.88 (5/8")
	Connecting method			Flare piping	Flare piping
nstallation	Attached length of piping		m	_	_
lata	Insulation for piping			Necessary (both	Liquid & Gas lines)
	Refrigerant line (one way) leng	ıth	m		ax.50
	Vertical height diff. between O/U a	·	m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)
	Drain hose			Hose connectable with VP25(O.D.32)	Hole size ϕ 20 x 3pcs
rain numn n	nax lift height		mm	Built-in drain pump , 850	— — — — — — — — — — — — — — — — — — —
	ed breaker size			Duitt-in drain pump, 650	_
			A		-
· · · · · · · · · · · · · · · · · · ·	d rotor ampere)		A		5.0
	ng wires Size x C	ore number		· · · · · · · · · · · · · · · · · · ·	/ Terminal block (Screw fixing type)
P number				IPX0	IP24
nterconnectin P number Standard acce Option parts	essories			Mounting kit, Drain hose	IP24 or: LB-T-5W-E

ne	nine	lenath	is	7.5m	

Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	ı	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

			Model	FDT125\	SAWVH
ltem				Indoor unit FDT125VH	Outdoor unit FDC125VSA-W
Power source				3 Phase, 380 - 415\	/ 50Hz / 380V 60Hz
	Nominal cooling capacity (rang	je)	kW	12.5 [5.0(Min.) - 14.0(Max.)]
	Nominal heating capacity (rang	je)	kW	14.0 [4.0(Min.) - 16.0(Max.)]
	D	Cooling		4.1	05
	Power consumption	Heating	kW	3.5	59
	Max power consumption		1	10.	20
		Cooling		6.2	
	Running current	Heating		5.5 /	
	Inrush current, max current	Troduing	\dashv \cap \vdash	5,	
Operation	musir current, max current	Cooling	+	9	
lata	Power factor		- % -	9	
	FED	Heating			
	EER	Cooling		3.	
	СОР	Heating		3.	90
	Sound power level	Cooling	⊣ ⊢	63	71
	Source portor love.	Heating		64	
	Sound pressure level	Cooling	dB(A)	P-Hi: 48 Hi: 41 Me: 39 Lo: 31	54
	Souria pressure level	Heating		P-Hi: 48 Hi: 41 Me: 38 Lo: 31	56
	Silent mode sound pressure le	vel		_	48 /45(Normal/Silent)
vtorior dim	opiono (Hoight y Width y Death)		m	Unit 298 x 840 x 840	9.4Ev.070070
xterior dimen	nsions (Height x Width x Depth)		mm	Panel 35 x 950 x 950	845x970x370
xterior appea	arance			Plaster white	Stucco white
Munsell color				(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent
RAL color)				(RAL 9003) near equivalent	(RAL 7044) near equivalent
let weight			kg	Unit 25 Panel 5	78
ompressor ty	ype & Q'ty			_	RMT5126SWP4 x 1
ompressor n	notor (Starting method)		kW	_	Direct line start
	(Amount, type)		L	_	0.9 (M-MB75)
	ype, amount, pre-charge length)		kg	R32_3 30 in outdoor unit (incl. t	he amount for the piping of 30m)
eat exchange			- Ng	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant co				Electronic ex	
			+	Turbo fan x1	
an type & Q't	<u>*</u>		144		Propeller fan x1
an motor (Sta	arting method)	To "	W	140 < Direct line start >	86 < Direct line start >
ir flow		Cooling	m³/min	P-Hi: 38 Hi: 28 Me: 25 Lo: 18	75
		Heating			73
	rnal static pressure		Pa	0	0
	ake			Possible	_
outside air inta				Pocket plastic net x1(Washable)	_
	ty / Quantity				D. I. I I
ir filter, Qualit	ty / Quantity tion absorber			Rubber sleeve(for fan motor)	Rubber sieeve (for fan motor & compress
ir filter, Qualit hock & vibrat	tion absorber		W	Rubber sleeve(for fan motor) —	20(Crank case heater)
ir filter, Qualit hock & vibrat lectric heater	tion absorber		W	_	20(Crank case heater)
ir filter, Qualit hock & vibrat lectric heater peration	tion absorber r Remote control		W	(Option) Wired: RC-EX3A, RC-E5,	20(Crank case heater) RCH-E3 Wireless : RCN-T-5AW-E2
air filter, Qualit shock & vibrat slectric heater operation	tion absorber r Remote control Room temperature control		W	_	RCH-E3 Wireless : RCN-T-5AW-E2
Outside air inta air filter, Qualit shock & vibrat electric heater operation ontrol	tion absorber r Remote control		W	(Option) Wired : RC-EX3A , RC-E5 , Thermostat b	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics
ir filter, Qualit hock & vibrat lectric heater operation ontrol	tition absorber r Remote control Room temperature control Operation display		W	(Option) Wired: RC-EX3A, RC-E5,	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics - ion for fan motor
ir filter, Qualit hock & vibrat lectric heater operation ontrol	tition absorber r Remote control Room temperature control Operation display		W	(Option) Wired: RC-EX3A, RC-E5, Thermostat be Overload protect Frost protection	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 yy electronics - ion for fan motor on thermostat tat for fan motor
ir filter, Qualit hock & vibrat lectric heater peration ontrol	tition absorber r Remote control Room temperature control Operation display		W	(Option) Wired: RC-EX3A, RC-E5, Thermostat be Overload protect Frost protection Internal thermos Abnormal discharge to	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 yy electronics - ion for fan motor on thermostat tat for fan motor emperature protection
ir filter, Qualit hock & vibrat lectric heater peration ontrol	tition absorber r Remote control Room temperature control Operation display nents	Liquid line		(Option) Wired: RC-EX3A, RC-E5, Thermostat be Overload protect Frost protection	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 yy electronics - ion for fan motor on thermostat tat for fan motor emperature protection
ir filter, Qualit hock & vibrat lectric heater operation ontrol	tition absorber r Remote control Room temperature control Operation display	Liquid line Gas line	- mm -	(Option) Wired: RC-EX3A, RC-E5, Thermostat be Overload protect Frost protection Internal thermos Abnormal discharge to	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics cion for fan motor on thermostat tat for fan motor emperature protection 2 (3/8")x0.8 O/U \$\phi\$ 9.52 (3/8")
ir filter, Qualit hock & vibrat lectric heater peration ontrol	tition absorber r Remote control Room temperature control Operation display nents			(Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protecti Internal thermos Abnormal discharge to I/U φ 9.52 (3/8") Pipe φ 9.52	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics cion for fan motor on thermostat tat for fan motor emperature protection 2 (3/8")x0.8 O/U \$\phi\$ 9.52 (3/8")
ir filter, Qualit hock & vibrat lectric heater peration ontrol	tition absorber r Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method		mm	Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protecti Internal thermos Abnormal discharge to I/U φ 9.52 (3/8") Pipe φ 9.52 φ 15.88 (5/8") Pipe φ 15.8	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics cion for fan motor on thermostat tat for fan motor emperature protection 2 (3/8")x0.8 O/U \(\phi \) 9.52 (3/8") 88(5/8")x1.0 \(\phi \) 15.88 (5/8")
ir filter, Qualit hock & vibrat lectric heater peration ontrol afety equipm	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping			Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protecti Internal thermos Abnormal discharge te I/U φ 9.52 (3/8") Pipe φ 9.52 φ 15.88 (5/8") Pipe φ 15.8 Flare piping	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics cion for fan motor on thermostat tat for fan motor emperature protection 2 (3/8")x0.8 O/U \(\phi \) 9.52 (3/8") 88(5/8")x1.0 \(\phi \) 15.88 (5/8") Flare piping
r filter, Qualit flock & vibrat ectric heater peration ontrol	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping	Gas line	- mm -	Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protecti Internal thermos Abnormal discharge te I/U φ 9.52 (3/8") Pipe φ 9.52 φ 15.88 (5/8") Pipe φ 15.8 Flare piping Necessary (both L	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics cion for fan motor bon thermostat tat for fan motor emperature protection 2 (3/8")x0.8 O/U \(\phi \) 9.52 (3/8") 88(5/8")x1.0 \(\phi \) 15.88 (5/8") Flare piping — iquid & Gas lines)
r filter, Qualit nock & vibrat ectric heater peration ontrol afety equipm	Refrigerant piping Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) length	Gas line th	mm	(Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protectic Internal thermos Abnormal discharge to I/U φ 9.52 (3/8") Pipe φ 9.52 φ 15.88 (5/8") Pipe φ 15.8 Flare piping Necessary (both L	20(Crank case heater) RCH-E3 Wireless : RCN-T-5AW-E2 by electronics ion for fan motor on thermostat tat for fan motor emperature protection 2 (3/8")x0.8
r filter, Qualit flock & vibrat ectric heater peration ontrol	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Vertical height diff. between O/U a	Gas line th	- mm -	(Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protectic Internal thermos Abnormal discharge te I/U φ 9.52 (3/8") Pipe φ 9.52 φ 15.88 (5/8") Pipe φ 15.8 Flare piping Necessary (both L Max Max.50 (Outdoor unit is higher)	20(Crank case heater) RCH-E3 Wireless : RCN-T-5AW-E2 by electronics ion for fan motor on thermostat tat for fan motor emperature protection 2 (3/8")x0.8
r filter, Qualit hock & vibrat ectric heater peration ontrol afety equipm stallation ata	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose	Gas line th	m m m	(Option) Wired: RC-EX3A, RC-E5, Thermostat be Overload protect Frost protecti Internal thermos Abnormal discharge te I/U φ 9.52 (3/8") Pipe φ 9.52 φ 15.88 (5/8") Pipe φ 15.8 Flare piping Necessary (both L Max Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32)	20(Crank case heater) RCH-E3 Wireless : RCN-T-5AW-E2 by electronics ion for fan motor on thermostat tat for fan motor emperature protection 2 (3/8")x0.8
ir filter, Qualit hock & vibrat lectric heater peration ontrol afety equipm astallation ata	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose max lift height	Gas line th	m m m mm	(Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protectic Internal thermos Abnormal discharge te I/U φ 9.52 (3/8") Pipe φ 9.52 φ 15.88 (5/8") Pipe φ 15.8 Flare piping Necessary (both L Max Max.50 (Outdoor unit is higher)	20(Crank case heater) RCH-E3 Wireless : RCN-T-5AW-E2 by electronics ion for fan motor on thermostat tat for fan motor emperature protection 2 (3/8")x0.8
ir filter, Qualit hock & vibrat lectric heater peration ontrol afety equipm stallation at a rain pump, mecommended	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose max lift height de breaker size	Gas line th	m m m	(Option) Wired: RC-EX3A, RC-E5, Thermostat be Overload protect Frost protecti Internal thermos Abnormal discharge te I/U φ 9.52 (3/8") Pipe φ 9.52 φ 15.88 (5/8") Pipe φ 15.8 Flare piping Necessary (both L Max Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32)	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics ion for fan motor on thermostat tat for fan motor emperature protection 2 (3/8")x0.8
ir filter, Qualitichock & vibraticlectric heater Operation ontrol afety equipments all all all all all all all all all al	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose max lift height	Gas line th	m m m mm	(Option) Wired: RC-EX3A, RC-E5, Thermostat be Overload protect Frost protecti Internal thermos Abnormal discharge te I/U φ 9.52 (3/8") Pipe φ 9.52 φ 15.88 (5/8") Pipe φ 15.8 Flare piping	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics ion for fan motor on thermostat tat for fan motor emperature protection 2 (3/8")x0.8
ir filter, Qualit hock & vibrat lectric heater peration ontrol afety equipm astallation ata	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose max lift height de breaker size de rotor ampere)	Gas line th	m m m A	(Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protecti Internal thermos Abnormal discharge te I/U φ 9.52 (3/8") Pipe φ 9.52 φ 15.88 (5/8") Pipe φ 15.8 Flare piping Necessary (both L Max Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump, 850	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics ion for fan motor on thermostat tat for fan motor emperature protection 2 (3/8")x0.8
ir filter, Qualit hock & vibrat lectric heater peration ontrol afety equipm astallation ata rain pump, recommende. R.A. (Locked vibrata)	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose max lift height de breaker size de rotor ampere)	Gas line th	m m m A	(Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protecti Internal thermos Abnormal discharge te I/U φ 9.52 (3/8") Pipe φ 9.52 φ 15.88 (5/8") Pipe φ 15.8 Flare piping Necessary (both L Max Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump, 850	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics ion for fan motor on thermostat tat for fan motor emperature protection 2 (3/8")x0.8
ir filter, Qualit hock & vibrat lectric heater peration ontrol afety equipm astallation ata	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose max lift height d breaker size d rotor ampere) ng wires Size x C	Gas line th	m m m A	(Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protecti Internal thermos Abnormal discharge te I/U φ 9.52 (3/8") Pipe φ 9.52 φ 15.88 (5/8") Pipe φ 15.8 Flare piping — Necessary (both L Max Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump, 850 φ 1.6mmx 3 cores + earth cable /	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics ion for fan motor on thermostat tat for fan motor emperature protection 2 (3/8")x0.8

he	nine	lenath	is	7.5m	

Item	Item Indoor air temperature Outdoor air temperature		Standards		
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	ı	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.

			Model		NAWVH		
tem				Indoor unit FDT140VH	Outdoor unit FDC140VNA-W		
Power source				1 Phase, 220 - 240\	V 50Hz / 220V 60Hz		
	Nominal cooling capacity (rang	je)	kW	13.6 [5.0(Min.	.) - 14.5(Max.)]		
	Nominal heating capacity (rang	je)	kW	15.5 [4.0(Min.) - 16.5(Max.)]			
		Cooling		4.	79		
	Power consumption	Heating	l kW	4.	18		
	Max power consumption				40		
	Cooling				/ 22.4		
	Running current	Heating	\dashv $_{A}$ \vdash		/ 19.4		
	Invited oursent may oursent	neating	⊣ ^ ⊢		24		
peration	Inrush current, max current	0 15		,			
ata	Power factor	Cooling	- % -		7		
		Heating			8		
	EER	Cooling	_		84		
	COP	Heating		3.	71		
	Sound newer level	Cooling		63	72		
	Sound power level	Heating		64	73		
		Cooling	dB(A)	P-Hi: 48 Hi: 42 Me: 39 Lo: 32	56		
	Sound pressure level	Heating	7 ` / F	P-Hi: 48 Hi: 41 Me: 38 Lo: 31	58		
	Silent mode sound pressure le		- - -	-	49 /45(Normal/Silent)		
	· ·		+ +	Unit 298 x 840 x 840	· · · · ·		
terior dimer	nsions (Height x Width x Depth)		mm	Panel 35 x 950 x 950	845x970x370		
xterior appea	grance		+ +	Plaster white	Stucco white		
Aunsell color				(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent		
RAL color)	,			(RAL 9003) near equivalent	(RAL 7044) near equivalent		
et weight			Ira	Unit 25 Panel 5	77		
			kg				
ompressor ty					RMT5126SWP3 x 1		
	notor (Starting method)		kW		Direct line start		
efrigerant oil	(Amount, type)		L	_	0.9 (M-MB75)		
efrigerant (T	ype, amount, pre-charge length)		kg	R32 3.30 in outdoor unit (incl. t	the amount for the piping of 30m)		
eat exchang	er			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing		
efrigerant co	entrol			Electronic ex	pansion valve		
an type & Q'1				Turbo fan x1	Propeller fan x1		
	arting method)		w	140 < Direct line start >	86 < Direct line start >		
	agea.,	Cooling			75		
ir flow		Heating	m³/min	P-Hi: 38 Hi: 29 Me: 26 Lo: 19	73		
voiloble ovte	rnal atatia pragaura	Treating	Pa	0	0		
	rnal static pressure		Ра	<u> </u>			
utside air int				Possible	_		
ir filter, Qualit	<u> </u>			Pocket plastic net x1(Washable)	_		
hock & vibra	tion absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compres		
ectric heater	r		W	_	20(Crank case heater)		
	Remote control			(Option) Wired: RC-EX3A, RC-E5,	RCH-E3 Wireless : RCN-T-5AW-E2		
peration	Room temperature control			Thermostat b	by electronics		
ontrol	Operation display			-			
				Overload protect	tion for fan motor		
					on thermostat		
afety equipm	ients			Internal thermos	stat for fan motor		
				Abnormal discharge to	emperature protection		
	Pofrigorant piping size (C.D.)	Liquid line	mm	I/U φ 9.52 (3/8") Pipe φ 9.52	2 (3/8")x0.8 Ο/U φ 9.52 (3/8")		
	Refrigerant piping size (O.D)	Gas line	mm	φ 15.88 (5/8") Pipe φ 15.8	88(5/8")x1.0 φ 15.88 (5/8")		
	Connecting method			Flare piping	Flare piping		
stallation	Attached length of piping		m		_		
staliation ata			+				
	Insulation for piping	11-	1	, (Liquid & Gas lines)		
	Refrigerant line (one way) leng		m	Max	t		
	Vertical height diff. between O/U a	ind I/U	m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)		
	Drain hose			Hose connectable with VP25(O.D.32)	Hole size φ 20 x 3pcs		
rain pump, n	nax lift height		mm	Built-in drain pump, 850	_		
ecommende	d breaker size		Α	-	_		
	d rotor ampere)		A	5	.0		
terconnectin		ore number	+		/ Terminal block (Screw fixing type)		
number	ig wiles	oro marringi	+ +	φ 1.6mimx 3 cores + earth cable /	IP24		
HUHHDEL				· · · · · · · · · · · · · · · · · · ·	IF24		
tandard acce	essories			Mounting kit, Drain hose	 or : LB-T-5W-E		

ne	nine	lenath	is	7.5m	

Item	Item Indoor air temperature Outdoor air temperature		Standards		
Operation	DB	WB	DB	WB	Staridards
Cooling	27°C	19℃	35°C	24°C	ISO5151-T1
Heating	20°C	ı	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

Item			Model	Indoor unit FDT140VH	/SAWVH Outdoor unit FDC140VSA-W
Power source				3 Phase, 380 - 415\	
ower source	Nominal cooling capacity (rang	۵)	kW	13.6 [5.0(Min.	
	Nominal heating capacity (rang		kW	15.5 [4.0(Min.	, ,,,
	Normal fleating capacity (rang	Cooling		13.3 [4.0(1/11)]	
	Power consumption	Heating	H _{kW} H	4.	
	Max power consumption	Treating	- NVV -	10.	
	Max power consumption	Cooling		7.4	
	Running current	Cooling	-		
	Lawrence and the second	Heating	_ A	6.6 /	
Operation	Inrush current, max current	0 11		5,	
data	Power factor	Cooling	- % -	9	
		Heating		9	
	EER	Cooling		2.i	
	COP	Heating		3.	
	Sound power level	Cooling	. L	63	72
	Country power love.	Heating		64	73
	Sound pressure level	Cooling	dB(A)	P-Hi: 48 Hi: 42 Me: 39 Lo: 32	56
	Souria pressure level	Heating		P-Hi: 48 Hi: 41 Me: 38 Lo: 31	58
	Silent mode sound pressure le	/el		_	49 /45(Normal/Silent)
xterior dimen	sions (Height x Width x Depth)		mm	Unit 298 x 840 x 840 Panel 35 x 950 x 950	845x970x370
Exterior appea	arance			Plaster white	Stucco white
Munsell color				(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent
RAL color)				(RAL 9003) near equivalent	(RAL 7044) near equivalent
let weight			kg	Unit 25 Panel 5	78
compressor ty	/pe & Q'ty			_	RMT5126SWP4 x 1
	notor (Starting method)		kW	_	Direct line start
	(Amount, type)		L	_	0.9 (M-MB75)
	ype, amount, pre-charge length)		kg	R32_3 30 in outdoor unit (incl. t	he amount for the piping of 30m)
leat exchange			Ng	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant co			+	Electronic ex	
an type & Q't			+	Turbo fan x1	Propeller fan x1
	•		W	140 < Direct line start >	86 < Direct line start >
an motor (Sta	arting method)	Caalina	VV	140 < Direct lifte start >	75
ir flow		Cooling	m³/min	P-Hi: 38 Hi: 29 Me: 26 Lo: 19	· · · · · · · · · · · · · · · · · · ·
		Heating	D-	0	73
بمغيده ملطمانهي			Pa	0 Possible	0
	•				_
Outside air inta	ake				
Outside air inta Air filter, Qualit	ake cy / Quantity			Pocket plastic net x1(Washable)	_
Outside air inta Air filter, Qualit Shock & vibrat	ake ry / Quantity tion absorber				` .
Outside air inta ir filter, Qualit shock & vibrat	ake ry / Quantity tion absorber		W	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) —	20(Crank case heater)
Outside air inta xir filter, Qualit Shock & vibrat Electric heater	ake y / Quantity tion absorber Remote control		W	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5,	20(Crank case heater) RCH-E3 Wireless : RCN-T-5AW-E2
Outside air inta Air filter, Qualit Shock & vibrat Electric heater Operation	exectory / Quantity tion absorber Remote control Room temperature control		W	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) —	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2
Available exter Dutside air inta Air filter, Qualit Shock & vibrat Electric heater Operation control	ake y / Quantity tion absorber Remote control		W	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5, Thermostat b	RCH-E3 Wireless: RCN-T-5AW-E2 by electronics
Outside air inta Air filter, Qualit Shock & vibrat Electric heater Operation	exectory / Quantity tion absorber Remote control Room temperature control		W	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) (Option) Wired: RC-EX3A, RC-E5, Thermostat be Overload protect	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics - ion for fan motor
Outside air inta Air filter, Qualit Shock & vibrat Electric heater Operation control	Remote control Room temperature control Operation display		W	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protectic	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics - ion for fan motor on thermostat
Outside air inta Air filter, Qualit Shock & vibrat Electric heater Operation	Remote control Room temperature control Operation display		W	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) (Option) Wired: RC-EX3A, RC-E5, Thermostat be Overload protect Frost protectii	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 yy electronics - ion for fan motor on thermostat tat for fan motor
Outside air inta Air filter, Qualit Shock & vibrat Electric heater Operation control	Remote control Room temperature control Operation display		W	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protectii Internal thermos Abnormal discharge to	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics - ion for fan motor on thermostat tat for fan motor emperature protection
Outside air inta Air filter, Qualit Shock & vibrat Electric heater Operation control	Remote control Room temperature control Operation display	Liquid line Gas line	W	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protecti Internal thermos Abnormal discharge to I/U \$\phi 9.52(3/8")\$ Pipe \$\phi 9.52(3	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics - ion for fan motor on thermostat tat for fan motor emperature protection 8/8")x0.8 O/U \$\phi\$9.52 (3/8")
Outside air inta Air filter, Qualit Chock & vibrat Clectric heater Operation Control	Remote control Room temperature control Operation display Refrigerant piping size (O.D)	Liquid line Gas line		Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protectii Internal thermos Abnormal discharge to I/U \(\phi 9.52(3/8") \) Pipe \(\phi 9.52(3/8") \) Pipe \(\phi 9.5.8(5/8") \) Pipe \(\phi 15.8(5/8") \)	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics cion for fan motor on thermostat tat for fan motor emperature protection 8/8")x0.8 O/U \(\phi 9.52 (3/8") \) 8 (5/8")x1.0 \(\phi 15.88 (5/8") \)
Outside air inta Air filter, Qualit Chock & vibrat Clectric heater Operation Control	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method	_	- mm -	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protecti Internal thermos Abnormal discharge to I/U \$\phi 9.52(3/8")\$ Pipe \$\phi 9.52(3	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics - ion for fan motor on thermostat tat for fan motor emperature protection 8/8")x0.8 O/U \$\phi\$9.52 (3/8")
Outside air inta ir filter, Qualit chock & vibrat clectric heater Operation ontrol cafety equipm	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping	_		Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protectii Internal thermos Abnormal discharge to I/U \(\phi 9.52(3/8")\) Pipe \(\phi 15.8\) Flare piping —	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics cion for fan motor on thermostat tat for fan motor emperature protection 8/8")x0.8 O/U \(\phi 9.52 (3/8") \) 8 (5/8")x1.0 \(\phi 15.88 (5/8") \) Flare piping
outside air inta ir filter, Qualit hock & vibrat lectric heater operation ontrol afety equipm	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping	Gas line	- mm -	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protectii Internal thermos Abnormal discharge to I/U \(\phi 9.52(3/8")\) Pipe \(\phi 15.8\) Flare piping — Necessary (both b	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics ion for fan motor bon thermostat tat for fan motor emperature protection 8/8")x0.8 O/U \(\phi 9.52 (3/8") \) 8 (5/8")x1.0 \(\phi 15.88 (5/8") \) Flare piping — iquid & Gas lines)
outside air inta ir filter, Qualit hock & vibrat lectric heater operation ontrol afety equipm	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng	Gas line	- mm - m	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protectic Internal thermos Abnormal discharge te I/U \(\phi 9.52(3/8") \) Pipe \(\phi 15.8 \) Flare piping — Necessary (both L) Max	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics ion for fan motor on thermostat tat for fan motor emperature protection 8/8")x0.8 O/U \(\phi 9.52 (3/8") \) 8 (5/8")x1.0 \(\phi 15.88 (5/8") \) Flare piping — iquid & Gas lines)
outside air inta ir filter, Qualit hock & vibrat lectric heater operation ontrol afety equipm	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Vertical height diff. between O/U a	Gas line	- mm -	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protectic Internal thermos Abnormal discharge te I/U \(\phi 9.52(3/8") \) Pipe \(\phi 9.52(3/8") \) Pipe \(\phi 15.88 \) Flare piping — Necessary (both L Max Max.50 (Outdoor unit is higher)	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics ion for fan motor on thermostat tat for fan motor emperature protection 8/8")x0.8 O/U \(\phi 9.52 (3/8") \) 8 (5/8")x1.0 \(\phi 15.88 (5/8") \) Flare piping - iquid & Gas lines) 6.50 Max.15 (Outdoor unit is lower)
outside air intair filter, Qualit hock & vibrat lectric heater operation ontrol afety equipm	Remote control Room temperature control Operation display ents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose	Gas line	- mm - m	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protectic Internal thermos Abnormal discharge te I/U \(\phi 9.52(3/8") \) Pipe \(\phi 9.52(3/8") \) Pipe \(\phi 15.8 \) Flare piping — Necessary (both L Max Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32)	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics ion for fan motor on thermostat tat for fan motor emperature protection 8/8")x0.8 O/U \(\phi 9.52 (3/8") \) 8 (5/8")x1.0 \(\phi 15.88 (5/8") \) Flare piping — iquid & Gas lines)
outside air inta ir filter, Qualit hock & vibrat lectric heater operation ontrol afety equipm	Remote control Room temperature control Operation display ents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose	Gas line	- mm - m	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protectic Internal thermos Abnormal discharge te I/U \(\phi 9.52(3/8") \) Pipe \(\phi 9.52(3/8") \) Pipe \(\phi 15.88 \) Flare piping — Necessary (both L Max Max.50 (Outdoor unit is higher)	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics ion for fan motor on thermostat tat for fan motor emperature protection 8/8")x0.8 O/U \(\phi 9.52 (3/8") \) 8 (5/8")x1.0 \(\phi 15.88 (5/8") \) Flare piping - iquid & Gas lines) 6.50 Max.15 (Outdoor unit is lower)
outside air intair filter, Qualitichock & vibratilectric heater Operation ontrol afety equipm astallation ata	Remote control Room temperature control Operation display ents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose	Gas line	m m m	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protectic Internal thermos Abnormal discharge te I/U \(\phi 9.52(3/8") \) Pipe \(\phi 9.52(3/8") \) Pipe \(\phi 15.8 \) Flare piping — Necessary (both L Max Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32)	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics ion for fan motor on thermostat tat for fan motor emperature protection 8/8")x0.8 O/U \(\phi 9.52 (3/8") \) 8 (5/8")x1.0 \(\phi 15.88 (5/8") \) Flare piping - iquid & Gas lines) 6.50 Max.15 (Outdoor unit is lower)
Outside air inta ir filter, Qualit shock & vibrat electric heater Operation ontrol safety equipm estallation lata orain pump, m ecommended	Remote control Room temperature control Operation display ents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Vertical height diff. between O/U a Drain hose ax lift height	Gas line	m m mm	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protecti Internal thermos Abnormal discharge te I/U \(\phi 9.52(3/8")\) Pipe \(\phi 9.52(3/8")\) Pipe \(\phi 9.52(3/8")\) Pipe \(\phi 9.52(3/8")\) Pipe \(\phi 15.88\) Flare piping — Necessary (both L Max Max.50 (Outdoor unit is higher) Hose connectable with VP25(0.D.32) Built-in drain pump, 850	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics ion for fan motor on thermostat tat for fan motor emperature protection 8/8")x0.8 O/U \(\phi 9.52 (3/8") \) 8 (5/8")x1.0 \(\phi 15.88 (5/8") \) Flare piping - iquid & Gas lines) 6.50 Max.15 (Outdoor unit is lower)
outside air inta ir filter, Qualit hock & vibrat lectric heater operation ontrol afety equipm astallation ata orain pump, m lecommended ar.A. (Locked	Remote control Room temperature control Operation display ents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Vertical height diff. between O/U a Drain hose nax lift height d breaker size I rotor ampere)	Gas line	m m m A	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protecti Internal thermos Abnormal discharge te I/U \(\phi 9.52(3/8")\) Pipe \(\phi 9.52(3/8")\) Pipe \(\phi 9.52(3/8")\) Pipe \(\phi 9.52(3/8")\) Pipe \(\phi 15.88\) Flare piping — Necessary (both L Max Max.50 (Outdoor unit is higher) Hose connectable with VP25(0.D.32) Built-in drain pump, 850	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics ion for fan motor on thermostat tat for fan motor emperature protection 3/8")x0.8 O/U \(\phi 9.52 \) (3/8") 8 (5/8")x1.0 \(\phi 15.88 \) (5/8") Flare piping — iquid & Gas lines) 6.50 Max.15 (Outdoor unit is lower) Hole size \(\phi 20 \) x 3pcs
Outside air inta Air filter, Qualit Shock & vibrat Electric heater Operation Control Cafety equipm Cafety equipm Care a control Care a con	Remote control Room temperature control Operation display ents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Vertical height diff. between O/U a Drain hose nax lift height d breaker size I rotor ampere)	Gas line th nd I/U	m m m A	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protecti Internal thermos Abnormal discharge te I/U \(\phi 9.52(3/8")\) Pipe \(\phi 9.52(3/8")\) Pipe \(\phi 9.52(3/8")\) Pipe \(\phi 9.52(3/8")\) Pipe \(\phi 15.88\) Flare piping — Necessary (both L Max Max.50 (Outdoor unit is higher) Hose connectable with VP25(0.D.32) Built-in drain pump, 850	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics ion for fan motor on thermostat tat for fan motor emperature protection 3/8")x0.8 O/U \(\phi 9.52 \) (3/8") 8 (5/8")x1.0 \(\phi 15.88 \) (5/8") Flare piping — iquid & Gas lines) 6.50 Max.15 (Outdoor unit is lower) Hole size \(\phi 20 \) x 3pcs —
Dutside air inta Air filter, Qualit Shock & vibrat Electric heater Operation control Bafety equipm Installation data Orain pump, m Recommended	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose nax lift height d breaker size I rotor ampere) g wires Size x Co	Gas line th nd I/U	m m m A	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protecti Internal thermos Abnormal discharge te I/U \(\phi 9.52(3/8") \) Pipe \(\phi 9.52(3/8") \) Pipe \(\phi 15.88 \) Flare piping — Necessary (both L Max Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump, 850 \(\phi 1.6mmx 3 \) cores + earth cable /	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics ion for fan motor on thermostat tat for fan motor emperature protection 3/8")x0.8 O/U \(\phi 9.52 \) (3/8") 8 (5/8")x1.0 \(\phi 15.88 \) (5/8") Flare piping — iquid & Gas lines) 50 Max.15 (Outdoor unit is lower) Hole size \(\phi 20 \) x 3pcs —

he	nine	lenath	is	7.5m	

Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	-	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.

(b) Twin type

			Model		NAWPVH
Item				Indoor unit FDT50VH (2 units)	Outdoor unit FDC100VNA-W
Power source				<u> </u>	V 50Hz / 220V 60Hz
	Nominal cooling capacity (ran	ge)	kW	10.0 [4.0(Min	.) - 11.2(Max.)]
	Nominal heating capacity (ran	ge)	kW	11.2 [4.0(Min	.) - 12.5(Max.)]
	Davier agreementies	Cooling		2.	82
	Power consumption	Heating	kW	2.	73
	Max power consumption			6.	40
		Cooling		12.4	/ 12.9
Running current Inrush current, max current		Heating			/ 12.5
					24
Operation	, , , , , , , , , , , , , , , , , , , ,	Cooling			99
data	Power factor	Heating	- % -		99
	EER	Cooling			55
	COP	Heating	\dashv \vdash		11
	661		+	55	69
	Sound power level	Cooling			
		Heating	<u>-</u> -	56	70
	Sound pressure level	Cooling	dB(A)	P-Hi: 41 Hi: 33 Me: 30 Lo: 26	54
	<u> </u>	Heating	_	P-Hi: 42 Hi: 33 Me: 28 Lo: 20	55
	Silent mode sound pressure le	evel		_	48 /44(Normal/Silent)
xterior dimer	nsions (Height x Width x Depth)		mm	Unit 236 x 840 x 840 Panel 35 x 950 x 950	845x970x370
Exterior appea	arance			Plaster white	Stucco white
Munsell color	r)			(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent
RAL color)				(RAL 9003) near equivalent	(RAL 7044) near equivalent
Net weight			kg	Unit 19 Panel 5	77
Compressor t	ype & Q'ty			_	RMT5126SWP3 x 1
Compressor r	notor (Starting method)		kW	_	Direct line start
Refrigerant oil	(Amount, type)		L	_	0.9 (M-MB75)
Refrigerant (1	ype, amount, pre-charge length)		kg	R32 3.30 in outdoor unit (incl. the	
leat exchang		·	l lig	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant co				<u> </u>	pansion valve
an type & Q'				Turbo fan x1	Propeller fan x1
	arting method)		W	50 < Direct line start >	86 < Direct line start >
all motor (or	arting metriod)	Cooling		30 \ Direct line start >	75
Air flow		Heating	m³/min	P-Hi: 22 Hi: 16 Me: 13 Lo: 10	73
Vicilable ovto	rnal atatic procesure	rieating	Pa	0	0
	rnal static pressure		Ра		
Outside air int				Possible	_
Air filter, Quali	<u> </u>			Pocket plastic net x1(Washable)	_
	tion absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compresso
lectric heate	T .		W		20(Crank case heater)
Operation	Remote control			(Option) Wired: RC-EX3A, RC-E5,	, RCH-E3 Wireless : RCN-T-5AW-E2
ontrol	Room temperature control			Thermostat b	by electronics
	Operation display			-	_
					tion for fan motor
Safety equipn	nents			•	on thermostat
,					stat for fan motor emperature protection
	1	Liquid line	+ +		① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8")
	Refrigerant piping size (O.D)	Gas line	mm –		
	Commonsting my -tht	Gasilile	+		① φ 15.88(5/8")x1.0 φ 15.88 (5/8")
	Connecting method			Flare piping	Flare piping
nstallation	Attached length of piping		m	_	_
lata	Insulation for piping			Necessary (both I	_iquid & Gas lines)
	Refrigerant line (one way) len	gth	m	Ma	x.50
Vertical height diff. between O/U and I/U		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)	
Drain hose			Hose connectable with VP25(O.D.32)	Hole size φ 20 x 3pcs	
rain pump. r	nax lift height		mm	Built-in drain pump , 850	
	ed breaker size		A	F. C. D. V. C. C.	<u> </u>
	d rotor ampere)		A	5	i.0
nterconnectir	· '	Core number	- A		/ Terminal block (Screw fixing type)
P number	ig wires Size X C	ore number	+ +	φ 1.6mmx 3 cores + earth cable /	IP24
	annarian		+ +		
Standard acco	essories			Mounting kit, Drain hose	
Option parts				Motion senso	or : LB-T-5W-E
lotes (1) The	e data are measured at the follo	wing conditions	S	The pipe length is 7.5	im.
	1		Outdoor		

А	nine	lenath	is	7	5m	

Item	Item Indoor air temperature Outdoor air temperature		Standards		
Operation	DB	WB	DB	WB	Staridards
Cooling	27°C	19℃	35°C	24°C	ISO5151-T1
Heating	20°C	ı	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.

 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

 (4) Select the breaker size according to the own national standard.

 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

 (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.

 (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U Branch, ②: Pipe of Branch I/U

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			Model	FDT100V	SAWPVH	
Item				Indoor unit FDT50VH (2 units)	Outdoor unit FDC100VSA-W	
Power source				3 Phase, 380 - 415	5V 50Hz / 380 60Hz	
	Nominal cooling capacity (rang	je)	kW	10.0 [4.0(Min.	.) - 11.2(Max.)]	
	Nominal heating capacity (range)		kW	11.2 [4.0(Min.) - 12.5(Max.)]		
	Cooling			2.	82	
	Power consumption	Heating	kW	2.	73	
	Max power consumption		1	10	.20	
		Cooling	1		/ 4.3	
	Running current	Heating			/ 4.2	
	Inrush current, max current	ricating			15	
Operation	illiusii cuirent, max cuirent	Cooling	+ +		99	
data	Power factor		- % -		98	
		Heating				
	EER	Cooling			55	
	COP	Heating			11	
	Sound power level	Cooling	⊣ ⊢	55	69	
	Country power love.	Heating		56	70	
	Sound pressure level	Cooling	dB(A)	P-Hi: 41 Hi: 33 Me: 30 Lo: 26	54	
	Souria pressure level	Heating		P-Hi: 42 Hi: 33 Me: 28 Lo: 20	55	
	Silent mode sound pressure le	vel		_	48 /44(Normal/Silent)	
Exterior dimer	sions (Height x Width x Depth)		mm	Unit 236 x 840 x 840 Panel 35 x 950 x 950	845x970x370	
Exterior appea	arance		+ +	Plaster white	Stucco white	
(Munsell color				(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent	
(RAL color)	,			(RAL 9003) near equivalent	(RAL 7044) near equivalent	
Net weight			kg	Unit 19 Panel 5	78	
Compressor ty	/ne & O'tv		1 19	=	RMT5126SWP4 x 1	
<u> </u>	notor (Starting method)		kW	_	Direct line start	
	(Amount, type)		L		0.9 (M-MB75)	
	, ,, ,			R32 3.30 in outdoor unit (incl. the	(/	
	ype, amount, pre-charge length)		kg	<u> </u>	, , , , , , , , , , , , , , , , , , , ,	
Heat exchange			+ +	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing	
Refrigerant co			1		pansion valve	
Fan type & Q't	•			Turbo fan x1	Propeller fan x1	
Fan motor (Sta	arting method)		W	50 < Direct line start >	86 < Direct line start >	
Air flow		Cooling Heating	m³/min	P-Hi: 22 Hi: 16 Me: 13 Lo: 10	75 73	
Available exte	rnal static pressure	1 3	Pa	0	0	
Outside air int	•		+	Possible	_	
Air filter, Qualit			+ +	Pocket plastic net x1(Washable)	_	
Shock & vibra	· · · · · · · · · · · · · · · · · · ·		+	Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compress	
Electric heater			W	Rubber sieeve(ioriairinotor)	20(Crank case heater)	
Liectric rieater	1		VV	(Ontion) Wind - DC EVAA DC EE	, RCH-E3 Wireless : RCN-T-5AW-E2	
Operation	Remote control	-	+			
control	Room temperature control			I nermostat t	by electronics	
	Operation display			-	-	
					tion for fan motor on thermostat	
Safety equipm	ents				on thermostat stat for fan motor	
					emperature protection	
		Liquid line			① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8")	
	Refrigerant piping size (O.D)	Gas line	mm –	. , , , , , ,	① φ 15.88(5/8")x1.0 φ 15.88 (5/8")	
	Connecting method	1	+	Flare piping	Flare piping	
				—	–	
nstallation	Attached length of piping		m			
data	Insulation for piping		1		_iquid & Gas lines)	
	Refrigerant line (one way) leng		m		x.50	
	Vertical height diff. between O/U a	nd I/U	m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)	
	Drain hose			Hose connectable with VP25(O.D.32)	Hole size φ 20 x 3pcs	
Drain pump, n	nax lift height		mm	Built-in drain pump , 850	_	
	d breaker size		Α		_	
	rotor ampere)		A		5.0	
Interconnectin	· · ·	ore number	+ +		/ Terminal block (Screw fixing type)	
IP number	9 WII 03 SIZE X 01	ore manniber	+ +	φ 1.onlinx 3 coles + earth cable /	IP24	
	accariac		+ +			
Standard acce	essones		+	Mounting kit, Drain hose		
Option parts				Notion senso	or : LB-T-5W-E	

The pipe length is 7.5m.

Item	Indoor air t	emperature	Outdoor air temperature		04
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7℃	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
 (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.
 (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U Branch, ②: Pipe of Branch I/U

			Model	FDT125V	NAWPVH
Item				Indoor unit FDT60VH (2 units)	Outdoor unit FDC125VNA-W
Power source				1 Phase, 220 - 240	V 50Hz / 220V 60Hz
	Nominal cooling capacity (rang	je)	kW	12.5 [5.0(Min.	.) - 14.0(Max.)]
	Nominal heating capacity (rang	je)	kW	14.0 [4.0(Min.) - 16.0(Max.)]
		Cooling		3.	79
	Power consumption	Heating	l kW	3.	31
	Max power consumption	1 3	1		40
	Wax power concumption	Cooling			/ 17.4
	Running current	Heating	\vdash A \vdash		/ 15.2
	Inrush current, max current	rieating	⊣ ^ ⊢		24
Operation	mrusii current, max current	0 15		,	
data	Power factor	Cooling	- % -		9
		Heating		·	9
	EER	Cooling	_		30
	СОР	Heating			23
	Sound power level	Cooling	_	58	71
	Courta power level	Heating		59	, ,
	Sound pressure level	Cooling	dB(A)	P-Hi: 44 Hi: 34 Me: 30 Lo: 27	54
	Sourid pressure level	Heating		P-Hi: 44 Hi: 34 Me: 30 Lo: 23	56
	Silent mode sound pressure lev	vel		_	48 /45(Normal/Silent)
Exterior dimor	sions (Height x Width x Depth)		mm	Unit 236 x 840 x 840	845x970x370
	isions (πειβιπ x widin x Deβth)		111111	Panel 35 x 950 x 950	04079108910
Exterior appea				Plaster white	Stucco white
(Munsell color)			(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent
(RAL color)				(RAL 9003) near equivalent	(RAL 7044) near equivalent
Net weight			kg	Unit 21 Panel 5	77
Compressor ty	/pe & Q'ty			_	RMT5126SWP3 x 1
Compressor n	notor (Starting method)		kW	_	Direct line start
Refrigerant oil	(Amount, type)	,	L	_	0.9 (M-MB75)
	ype, amount, pre-charge length)		kg	R32 3.30 in outdoor unit (incl. the	. , ,
Heat exchange	,, ,, <u>,,</u>		l ng	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant co					pansion valve
Fan type & Q'1				Turbo fan x1	Propeller fan x1
	arting method)		W	50 < Direct line start >	86 < Direct line start >
all motor (Sta	arting metriod)	Cooling	VV	50 < Direct line start >	75
Air flow			m³/min	P-Hi: 26 Hi: 17 Me: 14 Lo: 11	
		Heating			73
	rnal static pressure		Pa	0	0
Outside air int				Possible	_
Air filter, Qualit	· · · · · · · · · · · · · · · · · · ·			Pocket plastic net x1(Washable)	_
Shock & vibra				Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compress
Electric heater			W	_	20(Crank case heater)
Operation	Remote control			(Option) Wired: RC-EX3A, RC-E5,	RCH-E3 Wireless : RCN-T-5AW-E2
Operation control	Room temperature control			Thermostat by electronics	
CONTROL	Operation display			-	_
				Overload protect	ion for fan motor
Safety equipm	ents				on thermostat
odioty oquipii	one				tat for fan motor
	1	1.1	+		emperature protection
	Refrigerant piping size (O.D)	Liquid line	mm –	. , , , , , , , , , , , , , , , , , , ,	① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8")
		Gas line			① φ 15.88(5/8")x1.0 φ 15.88 (5/8")
	Connecting method			Flare piping	Flare piping
nstallation	Attached length of piping		m	_	_
data	Insulation for piping			Necessary (both L	Liquid & Gas lines)
	Refrigerant line (one way) leng	th	m		x.50
	Vertical height diff. between O/U a		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)
Drain hose			Hose connectable with VP25(O.D.32)	Hole size ϕ 20 x 3pcs	
Drain pump, max lift height		mm	Hose connectable with VP25(U.D.32) Built-in drain pump , 850 Hole size φ 20 x 3pcs		
	d breaker size				<u> </u>
			A		
•	I rotor ampere)		A		.0
	g wires Size x Co	ore number		•	Terminal block (Screw fixing type)
Interconnectin	9				
IP number				IPX0	IP24
	essories			Mounting kit, Drain hose	IP24

ne	nine	lenath	is	7.5m	

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	Staridards
Cooling	27°C	19℃	35°C	24°C	ISO5151-T1
Heating	20°C	-	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.

 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

 (4) Select the breaker size according to the own national standard.

 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

 (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.

 (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U Branch, ②: Pipe of Branch I/U

Item			Model	FDT125V	
				Indoor unit FDT60VH (2 units)	Outdoor unit FDC125VSA-W
Power source	The state of the s	``	1114		V 50Hz / 380V 60Hz
	Nominal cooling capacity (range	· /	kW	12.5 [5.0(Min.	
	Nominal heating capacity (range)		kW		.) - 16.0(Max.)]
	Power consumption	Power consumption Cooling			79
		Heating	kW	3.:	
	Max power consumption	To 1:			.20
	Running current	Cooling	┦. ┝	5.5 /	
		Heating	_ A	4.8 /	
Operation	Inrush current, max current	10 "			15
data	Power factor	Cooling	- % -		9
		Heating		9	
	EER	Cooling			30
	COP	Heating			23
	Sound power level	Cooling		58	71
		Heating	┦ ┡	59	
	Sound pressure level	Cooling	dB(A)	P-Hi: 44 Hi: 34 Me: 30 Lo: 27	54
		Heating	_	P-Hi: 44 Hi: 34 Me: 30 Lo: 23	56
	Silent mode sound pressure le	vel		_	48 /45(Normal/Silent)
Exterior dimer	nsions (Height x Width x Depth)		mm	Unit 236 x 840 x 840 Panel 35 x 950 x 950	845x970x370
Exterior appea				Plaster white	Stucco white
(Munsell color)			(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent
(RAL color)				(RAL 9003) near equivalent	(RAL 7044) near equivalent
Net weight	<u> </u>		kg	Unit 21 Panel 5	78
Compressor t	· · · · · · · · · · · · · · · · · · ·			_	RMT5126SWP4 x 1
	notor (Starting method)		kW	_	Direct line start
	(Amount, type)		L		0.9 (M-MB75)
<u> </u>	ype, amount, pre-charge length)		kg	R32 3.30 in outdoor unit (incl. the	
Heat exchang				Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant co					pansion valve
Fan type & Q'	·			Turbo fan x1	Propeller fan x1
Fan motor (St	arting method)	,	W	50 < Direct line start >	86 < Direct line start >
Air flow		Cooling	m³/min	P-Hi: 26 Hi: 17 Me: 14 Lo: 11	75
		Heating			73
	rnal static pressure		Pa	0	0
Outside air int				Possible	_
Air filter, Quali	· · · · · · · · · · · · · · · · · · ·			Pocket plastic net x1(Washable)	_
Shock & vibra				Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compresso
Electric heater	1		W	_	20(Crank case heater)
Operation	Remote control			(Option) Wired: RC-EX3A, RC-E5,	
control	Room temperature control			Thermostat b	by electronics
	Operation display				
					ion for fan motor
Safety equipm	ents			Frost protection thermostat	
					emperature protection
		Liquid line	1	I/U φ 6.35 (1/4") ② φ 9.52(3/8")x0.8	
	Refrigerant piping size (O.D)	Gas line	mm –		① φ 15.88(5/8")x1.0 φ 15.88 (5/8")
	Connecting method	1	+ +	Flare piping	Flare piping
Installation	Attached length of piping		m	— ed.	
data	Insulation for piping			Nacceson /hath	
	Refrigerant line (one way) lend	th.	<u> </u>	Necessary (both L	· · · · · · · · · · · · · · · · · · ·
	0 1 77 0	<u> </u>	m	Max 50 (Outdoor unit is higher)	
Vertical height diff. between O/U and I/U		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)	
Drain pump, max lift height		/	Hose connectable with VP25(O.D.32)	Hole size φ 20 x 3pcs	
			mm	Built-in drain pump , 850	_
	d breaker size		A	-	
•	d rotor ampere)		A		.0
Interconnectin	g wires Size x C	ore number		·	Terminal block (Screw fixing type)
IP number				IPX0	IP24
Standard acce	essories			Mounting kit, Drain hose	_
Option parts					r : LB-T-5W-E

А	nine	lenath	is	7	5m	

(1) The data are n	The pipe length is 7.5m.					
	Item	Indoor air t	Indoor air temperature		temperature	Standards
Operation		DB	WB	DB	WB	Stanuarus
Cooling		27°C	19°C	35°C	24°C	ISO5151-T1
Heating		20°C	ı	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
 (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.
 (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U Branch, ②: Pipe of Branch I/U

Item			Model		NAWPVH
Item				Indoor unit FDT71VH (2 units)	Outdoor unit FDC140VNA-W
Power source	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·	V 50Hz / 220V 60Hz
	Nominal cooling capacity (range		kW		.) - 14.5(Max.)]
	Nominal heating capacity (rang		kW		.) - 16.5(Max.)]
	Power consumption	Cooling			22
	T GWGI GGIIGGIII PAGII	Heating	kW	3.	57
	Max power consumption			6	40
	Diversion accurate	Cooling		18.5	/ 19.4
	Running current	Heating	A	15.7	/ 16.4
	Inrush current, max current			5,	24
Operation		Cooling		9	99
data	Power factor	Heating	- % -	9	99
	EER	Cooling		·	22
	COP	Heating			34
	331	Cooling		59	72
	Sound power level	Heating		60	73
			- 4D(A)	00	
	Sound pressure level	Cooling	dB(A)	P-Hi: 46 Hi: 34 Me: 31 Lo: 26	56
		Heating	_		58
	Silent mode sound pressure le	vel			49 /45(Normal/Silent)
Exterior dimer	nsions (Height x Width x Depth)		mm	Unit 236 x 840 x 840 Panel 35 x 950 x 950	845x970x370
Exterior appea	arance			Plaster white	Stucco white
(Munsell color	.)			(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent
(RAL color)				(RAL 9003) near equivalent	(RAL 7044) near equivalent
Net weight			kg	Unit 21 Panel 5	77
Compressor t	ype & Q'ty			_	RMT5126SWP3 x 1
Compressor n	notor (Starting method)		kW	_	Direct line start
	(Amount, type)		L	_	0.9 (M-MB75)
	ype, amount, pre-charge length)		kg	R32 3.30 in outdoor unit (incl. the	
Heat exchang	, , , , , , , , , , , , , , , , , , , 		i iig	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant co		-		<u> </u>	pansion valve
Fan type & Q'				Turbo fan x1	Propeller fan x1
	<u> </u>		W		86 < Direct line start >
ran motor (St	arting method)	0	VV	50 < Direct line start >	
Air flow		Cooling	m³/min	P-Hi: 28 Hi: 18 Me: 15 Lo: 12	75
		Heating			73
	rnal static pressure		Pa	0	0
Outside air int				Possible	_
Air filter, Quali	· · · · · · · · · · · · · · · · · · ·			Pocket plastic net x1(Washable)	_
Shock & vibra				Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compress
Electric heate	<u>r</u>		W		20(Crank case heater)
Operation	Remote control			(Option) Wired: RC-EX3A, RC-E5,	, RCH-E3 Wireless : RCN-T-5AW-E2
Operation control	Room temperature control			Thermostat by electronics	
	Operation display				
					tion for fan motor
Safety equipm	nents			The second secon	on thermostat
					stat for fan motor
	T	Limitel Co.	+		emperature protection
	Refrigerant piping size (O.D)	Liquid line	mm –	, , , , , , ,	① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8")
		Gas line		, , , - , , ,	① φ 15.88(5/8")x1.0 φ 15.88 (5/8")
	Connecting method			Flare piping	Flare piping
nstallation	Attached length of piping		m		_
data	Insulation for piping			Necessary (both L	Liquid & Gas lines)
	Refrigerant line (one way) leng	th	m		x.50
	Vertical height diff. between O/U a		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)
Drain hose		***	Hose connectable with VP25(O.D.32)	Hole size ϕ 20 x 3pcs	
	Drain pump, max lift height		mm	Built-in drain pump, 850	— — — — — — — — — — — — — — — — — — —
Orain numn n			A	Dunt-in drain pullip, 600	_
				-	-
Recommende	d breaker size			-	0
Recommende L.R.A. (Locked	d breaker size d rotor ampere)		A		.0
Recommende R.A. (Locked nterconnectin	d breaker size d rotor ampere)	ore number		ϕ 1.6mmx 3 cores + earth cable /	/ Terminal block (Screw fixing type)
Recommende L.R.A. (Locked Interconnectin IP number	d breaker size d rotor ampere) ng wires Size x Co	ore number		φ 1.6mmx 3 cores + earth cable / IPX0	/ Terminal block (Screw fixing type)
Recommende L.R.A. (Locked Interconnectin	d breaker size d rotor ampere) ng wires Size x Co	ore number		φ 1.6mmx 3 cores + earth cable / IPX0 Mounting kit, Drain hose	/ Terminal block (Screw fixing type)

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.

 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

 (4) Select the breaker size according to the own national standard.

 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

 (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.

 (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U Branch, ②: Pipe of Branch I/U

			Model	FDT140V	/SAWPVH	
Item				Indoor unit FDT71VH (2 units)	Outdoor unit FDC140VSA-W	
Power source				3 Phase, 380 - 415	V 50Hz / 380V 60Hz	
	Nominal cooling capacity (rang	je)	kW	13.6 [5.0(Min	i.) - 14.5(Max.)]	
	Nominal heating capacity (rang	je)	kW	15.5 [4.0(Min	.) - 16.5(Max.)]	
		Cooling		4.	22	
	Power consumption	Heating	kW	3.	.57	
	Max power consumption	1 3	1		0.20	
	max perrer semeampuon	Cooling			/ 6.5	
	Running current	Heating			/ 5.5	
	Inrush current, max current	ricating	- ^ -		15	
Operation	midsir current, max current	Cooling			99	
data	Power factor	Heating	- % -		99	
	FED					
	COP	Cooling	- -		.22	
	COP	Heating			34	
	Sound power level	Cooling	4	59	72	
		Heating	_	60	73	
	Sound pressure level	Cooling	dB(A)	P-Hi: 46 Hi: 34 Me: 31 Lo: 26	56	
	Courta procedio level	Heating		1 THE TO THE OT MICE OF 20.20	58	
	Silent mode sound pressure le	vel		<u> </u>	49 /45(Normal/Silent)	
Exterior dimer	nsions (Height x Width x Depth)		mm	Unit 236 x 840 x 840	845x970x370	
			111111	Panel 35 x 950 x 950	0-10/01/0/01/0	
Exterior appea				Plaster white	Stucco white	
(Munsell color)			(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent	
(RAL color)				(RAL 9003) near equivalent	(RAL 7044) near equivalent	
Net weight			kg	Unit 21 Panel 5	78	
Compressor ty	ype & Q'ty			_	RMT5126SWP4 x 1	
Compressor n	notor (Starting method)		kW	_	Direct line start	
Refrigerant oil	(Amount, type)		L	_	0.9 (M-MB75)	
Refrigerant (T	ype, amount, pre-charge length)		kg	R32 3.30 in outdoor unit (incl. the amount for the piping of 30m)		
Heat exchang	er			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing	
Refrigerant co				<u> </u>	pansion valve	
Fan type & Q'			+ +	Turbo fan x1	Propeller fan x1	
	arting method)		W	50 < Direct line start >	86 < Direct line start >	
an motor (ot	arting metrica)	Cooling	- **	50 \ Direct line start >	75	
Air flow			m³/min	P-Hi: 28 Hi: 18 Me: 15 Lo: 12	73	
Available ovte	rnal atatic process	Heating	Pa	0	0	
	rnal static pressure		Pa	<u> </u>		
Outside air int				Possible	_	
Air filter, Quali	· · · · · · · · · · · · · · · · · · ·			Pocket plastic net x1(Washable)	_	
Shock & vibra				Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compress	
Electric heater			W		20(Crank case heater)	
Operation	Remote control			(Option) Wired: RC-EX3A, RC-E5	, RCH-E3 Wireless : RCN-T-5AW-E2	
control	Room temperature control			Thermostat by electronics		
	Operation display				_	
					tion for fan motor	
Safety equipm	nents			Frost protection thermostat Internal thermostat for fan motor		
, , ,						
	1	Liquid line	+ +		emperature protection	
	Refrigerant piping size (O.D)	Liquid line	mm –	. , , , , , ,	① \$\phi 9.52(3/8") x 0.8 \text{O/U } \phi 9.52 (3/8")	
	Composting	Gas line	+		① φ 15.88(5/8")x1.0 φ 15.88 (5/8")	
	Connecting method		1	Flare piping	Flare piping	
nstallation	Attached length of piping		m	_	_	
data	Insulation for piping			Necessary (both	Liquid & Gas lines)	
	Refrigerant line (one way) leng	th	m	Max.50		
	Vertical height diff. between O/U a	nd I/U	m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)	
Drain hose			Hose connectable with VP25(O.D.32) Hole size φ 20 x 3pcs			
Drain pump, max lift height		mm	Built-in drain pump , 850 —			
	d breaker size		A		_	
	d rotor ampere)		A		5.0	
•	· /	ore number	 ^		/ Terminal block (Screw fixing type)	
nterconnectin	ig wiles Size X Ci	ore mulliper	+ +	φ 1.6mmx 3 cores + earth cable . IPX0		
P number			1		IP24	
Standard acce Option parts	essories		+	Mounting kit, Drain hose		
			1 1	Motion sensor	or : LB-T-5W-E	

Item	Indoor air temperature		Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
 (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.
 (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U Branch, ②: Pipe of Branch I/U

(c) Triple type

lhana			Model	FDT140VNAWTVH			
Item				Indoor unit FDT50VH (3 units)	Outdoor unit FDC140VNA-W		
Power source				1 Phase, 220 - 240\	V 50Hz / 220V 60Hz		
	Nominal cooling capacity (ran	ge)	kW	13.6 [5.0(Min.	.) - 14.5(Max.)]		
	Nominal heating capacity (ran	ge)	kW	15.5 [4.0(Min	.) - 16.5(Max.)]		
	Power consumption Cooling Heating Max power consumption			4.22			
			l kW	3.57			
			1	6.	40		
	Cooling			18.5	/ 19.4		
	Running current Heating		\vdash \land \vdash	15.7 / 16.4			
	Inrush current, max current	Trouting	⊣ ^` ⊢		24		
Operation	Cooling			9			
data	Power factor	Heating	- % -		9		
	FED						
	EER COP	Cooling		3.			
	СОР	Heating		3.			
	Sound power level	Cooling	4	55	72		
		Heating	_	56	73		
	Sound pressure level	Cooling	dB(A)	P-Hi: 41 Hi: 33 Me: 30 Lo: 26	56		
	Souria pressure lever	Heating		P-Hi: 42 Hi: 33 Me: 28 Lo: 20	58		
	Silent mode sound pressure le	evel		_	49 /45(Normal/Silent)		
	- i (Llaiald - Middle - Dandle)			Unit 236 x 840 x 840	0.45070070		
exterior dimer	nsions (Height x Width x Depth)		mm	Panel 35 x 950 x 950	845x970x370		
Exterior appea	arance			Plaster white	Stucco white		
Munsell color				(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent		
RAL color)	•			(RAL 9003) near equivalent	(RAL 7044) near equivalent		
let weight			kg	Unit 19 Panel 5	77		
Compressor ty	vne & O'tv		9	_	RMT5126SWP3 x 1		
	<u> </u>		kW		Direct line start		
	notor (Starting method)						
	(Amount, type)		L	-	0.9 (M-MB75)		
	ype, amount, pre-charge length)	kg	R32 3.30 in outdoor unit (incl. the			
Heat exchange	er			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing		
Refrigerant co	ntrol			Electronic ex	pansion valve		
an type & Q'1	ty			Turbo fan x1	Propeller fan x1		
an motor (Sta	arting method)		W	50 < Direct line start >	86 < Direct line start >		
u		Cooling		00 (2.100)	75		
Air flow		Heating	m³/min	P-Hi: 22 Hi: 16 Me: 13 Lo: 10	73		
Visitalata avea	unal atatia musaasuus	rieating	Pa	0	0		
	rnal static pressure		Fa		U		
Outside air int				Possible	_		
Air filter, Qualit	· · · · · · · · · · · · · · · · · · ·			Pocket plastic net x1(Washable)	_		
Shock & vibra	tion absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compresso		
Electric heater	r		W	_	20(Crank case heater)		
	Remote control			(Option) Wired: RC-EX3A, RC-E5,	RCH-E3 Wireless: RCN-T-5AW-E2		
Operation	Room temperature control			Thermostat b	by electronics		
control	Operation display			-	<u>*</u> =		
	Toponamon andpies,			Overload protect	ion for fan motor		
				Frost protection			
Safety equipm	nents				on thermostat		
Safety equipm	nents			Frost protection Internal thermos	on thermostat		
Safety equipm		Liquid line		Frost protecti Internal thermos Abnormal discharge t	on thermostat tat for fan motor		
Safety equipm	Refrigerant piping size (O.D)	Liquid line Gas line	mm	Frost protecting Internal thermos Abnormal discharge to I/U ϕ 6.35 (1/4") ② ϕ 9.52(3/8")x0.8	on thermostat tat for fan motor emperature protection		
Safety equipm	Refrigerant piping size (O.D)		mm	Frost protecting Internal thermost Abnormal discharge to I/U φ 6.35 (1/4") ②φ 9.52(3/8")x0.8 φ 12.7 (1/2") ②φ 12.7(1/2")x0.8 (on thermostat tat for fan motor emperature protection ① \(\phi \) 9.52(3/8")x0.8 \(\O/U \) \(\phi \) 9.52 (3/8") ① \(\phi \) 15.88(5/8")x1.0 \(\phi \) 15.88 (5/8")		
	Refrigerant piping size (O.D) Connecting method			Frost protectinternal thermos Abnormal discharge to I/U \$\phi\$ 6.35 (1/4") \$\@\phi\$ 9.52(3/8")x0.8 \$\phi\$ 12.7 (1/2") \$\@\phi\$ 12.7(1/2")x0.8 (Flare piping	on thermostat tat for fan motor emperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8")		
nstallation	Refrigerant piping size (O.D) Connecting method Attached length of piping		— mm —	Frost protectinternal thermos Abnormal discharge to I/U \$\phi\$ 6.35 (1/4") \$\@\phi\$ 9.52(3/8")x0.8 \$\phi\$ 12.7 (1/2") \$\@\phi\$ 12.7(1/2")x0.8 Flare piping	on thermostat tat for fan motor emperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping —		
nstallation	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping	Gas line		Frost protectinternal thermos Abnormal discharge to I/U \$\phi\$ 6.35 (1/4")	on thermostat tat for fan motor emperature protection ① \$\phi\$ 9.52(3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") ① \$\phi\$ 15.88(5/8")x1.0 \$\phi\$ 15.88 (5/8") Flare piping — iquid & Gas lines)		
nstallation	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) len	Gas line gth		Frost protectinternal thermos Abnormal discharge to I/U \$\phi\$ 6.35 (1/4")	on thermostat tat for fan motor emperature protection ① ϕ 9.52(3/8")x0.8 O/U ϕ 9.52 (3/8") ① ϕ 15.88(5/8")x1.0 ϕ 15.88 (5/8") Flare piping —		
nstallation	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping	Gas line gth	m	Frost protectinternal thermos Abnormal discharge to I/U \$\phi\$ 6.35 (1/4")	on thermostat tat for fan motor emperature protection ① \$\phi\$ 9.52(3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") ① \$\phi\$ 15.88(5/8")x1.0 \$\phi\$ 15.88 (5/8") Flare piping — iquid & Gas lines)		
nstallation	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) len	Gas line gth	m m	Frost protection Internal thermost Abnormal discharge to I/U \$\phi\$ 6.35 (1/4") \$\@ \phi\$ 9.52(3/8")x0.8 \$\phi\$ 12.7 (1/2") \$\@ \phi\$ 12.7(1/2")x0.8 \$\end{array}\$ Flare piping Necessary (both Lambda)	on thermostat tat for fan motor emperature protection ① \$\phi\$ 9.52(3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") ① \$\phi\$ 15.88(5/8")x1.0 \$\phi\$ 15.88 (5/8") Flare piping — _iquid & Gas lines) x.50		
nstallation lata	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) len Vertical height diff. between O/U Drain hose	Gas line gth	m m	Frost protectinternal thermos Abnormal discharge to I/U \$\phi\$ 6.35 (1/4") \$\@\phi\$ 9.52(3/8")x0.8 \$\phi\$ 12.7 (1/2") \$\@\phi\$ 12.7(1/2")x0.8 Flare piping - Necessary (both L Max Max.50 (Outdoor unit is higher)	on thermostat tat for fan motor emperature protection ① ϕ 9.52(3/8")x0.8 O/U ϕ 9.52 (3/8") ① ϕ 15.88(5/8")x1.0 ϕ 15.88 (5/8") Flare piping — Liquid & Gas lines) x.50 Max.15 (Outdoor unit is lower)		
nstallation data Orain pump, n	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) len Vertical height diff. between O/U Drain hose nax lift height	Gas line gth	m m m m	Frost protection Internal thermost Abnormal discharge to I/U \$\phi\$ 6.35 (1/4") \$\hat{2} \phi\$ 9.52(3/8")x0.8 \$\phi\$ 12.7 (1/2") \$\hat{2} \phi\$ 12.7(1/2")x0.8 \$\hat{2}\$ Flare piping	on thermostat tat for fan motor emperature protection ① ϕ 9.52(3/8")x0.8 O/U ϕ 9.52 (3/8") ① ϕ 15.88(5/8")x1.0 ϕ 15.88 (5/8") Flare piping — Liquid & Gas lines) x.50 Max.15 (Outdoor unit is lower)		
nstallation lata Drain pump, n Recommende	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) len Vertical height diff. between O/U Drain hose nax lift height d breaker size	Gas line gth	m m m A	Frost protection Internal thermost Abnormal discharge to I/U \$\phi\$ 6.35 (1/4") \$\hat{2} \phi\$ 9.52(3/8")x0.8 \$\phi\$ 12.7 (1/2") \$\hat{2} \phi\$ 12.7(1/2")x0.8 \$\hat{2}\$ Flare piping	on thermostat tat for fan motor emperature protection ① \(\phi \) 9.52(3/8")x0.8 \(\text{O/U} \phi \) 9.52 (3/8") ① \(\phi \) 15.88(5/8")x1.0 \(\phi \) 15.88 (5/8") ———————————————————————————————————		
nstallation lata Drain pump, n Recommende R.A. (Locked	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) len Vertical height diff. between O/U Drain hose nax lift height d breaker size d rotor ampere)	Gas line gth and I/U	m m m m	Frost protection Internal thermost Abnormal discharge to I/U \$\phi\$ 6.35 (1/4") \$\hat{2}\phi\$ 9.52(3/8")x0.8 \$\phi\$ 12.7 (1/2") \$\hat{2}\phi\$ 12.7(1/2")x0.8 \$\hat{2}\phi\$ Flare piping	on thermostat tat for fan motor emperature protection ① \$\phi\$ 9.52(3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") ① \$\phi\$ 15.88(5/8")x1.0 \$\phi\$ 15.88 (5/8") Flare piping — Liquid & Gas lines) K.50 Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3pcs — .0		
nstallation lata Drain pump, n Recommende R.A. (Locked nterconnectin	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) len Vertical height diff. between O/U Drain hose nax lift height d breaker size d rotor ampere)	Gas line gth	m m m A	Frost protection Internal thermost Abnormal discharge to I/U \$\phi\$ 6.35 (1/4") \$\hat{2} \phi\$ 9.52(3/8")x0.8 \$\phi\$ 12.7 (1/2") \$\hat{2} \phi\$ 12.7(1/2")x0.8 \$\hat{2}\$ Flare piping	on thermostat tat for fan motor emperature protection ① \$\phi\$ 9.52(3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") ① \$\phi\$ 15.88(5/8")x1.0 \$\phi\$ 15.88 (5/8") Flare piping — .iquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3pcs — .0 / Terminal block (Screw fixing type)		
nstallation lata Prain pump, n Recommende R.A. (Locked nterconnectin P number	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) len Vertical height diff. between O/U Drain hose max lift height d breaker size d rotor ampere) ng wires Size x C	Gas line gth and I/U	m m m A	Frost protection Internal thermost Abnormal discharge to I/U \$\phi\$ 6.35 (1/4") \$\bar{2} \phi\$ 9.52(3/8")x0.8 \$\phi\$ 12.7 (1/2") \$\bar{2} \phi\$ 12.7(1/2")x0.8 \$\phi\$ Flare piping \$\text{Necessary (both L Max.50 (Outdoor unit is higher)}\$ Hose connectable with VP25(0.D.32) Built-in drain pump , 850 \$\phi\$ 1.6mmx 3 cores + earth cable of IPX0	on thermostat tat for fan motor emperature protection ① \$\phi\$ 9.52(3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") ① \$\phi\$ 15.88(5/8")x1.0 \$\phi\$ 15.88 (5/8") Flare piping — .iquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3pcs — .0 (Terminal block (Screw fixing type)		
nstallation lata Prain pump, n Recommende R.A. (Locked nterconnectin P number	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) len Vertical height diff. between O/U Drain hose max lift height d breaker size d rotor ampere) ng wires Size x C	Gas line gth and I/U	m m m A	Frost protection Internal thermost Abnormal discharge to I/U \$\phi\$ 6.35 (1/4") \$\hat{2} \phi\$ 9.52(3/8")x0.8 \$\phi\$ 12.7 (1/2") \$\hat{2} \phi\$ 12.7(1/2")x0.8 \$\hat{2}\$ Flare piping	on thermostat tat for fan motor emperature protection ① \$\phi\$ 9.52(3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") ① \$\phi\$ 15.88(5/8")x1.0 \$\phi\$ 15.88 (5/8") Flare piping — .iquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3pcs — .0 / Terminal block (Screw fixing type)		
nstallation data Drain pump, n Recommende R.A. (Locket	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) len Vertical height diff. between O/U Drain hose max lift height d breaker size d rotor ampere) ng wires Size x C	Gas line gth and I/U	m m m A	Frost protection Internal thermost Abnormal discharge to I/U \$\phi\$ 6.35 (1/4") \$\binom{2}{\phi}\$ 9.52(3/8")x0.8 \$\phi\$ 12.7 (1/2") \$\binom{2}{\phi}\$ 12.7(1/2")x0.8 \$\phi\$ Flare piping	on thermostat tat for fan motor emperature protection ① \$\phi\$ 9.52(3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") ① \$\phi\$ 15.88(5/8")x1.0 \$\phi\$ 15.88 (5/8") Flare piping — .iquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3pcs — .0 (Terminal block (Screw fixing type)		

e pipe length is 7.5m.	
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Item	Indoor air temperature		Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	-	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.

 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

 (4) Select the breaker size according to the own national standard.

 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

 (6) Indoor unit specifications for one unit. Capacity and operation data is three indoor units are combined and run together.

 (7) Branching pipe set "DIS-TB1G"×1(Option). ①: Pipe of O/U Branch, ②: Pipe of Branch I/U

			Model	FDT140V	SAWTVH			
Item				Indoor unit FDT50VH (3 units)	Outdoor unit FDC140VSA-W			
Power source				· · · · · · · · · · · · · · · · · · ·	V 50Hz / 380V 60Hz			
	Nominal cooling capacity (range	1e)	kW					
	Nominal heating capacity (range		kW	13.6 [5.0(Min.) - 14.5(Max.)] 15.5 [4.0(Min.) - 16.5(Max.)]				
			KVV	15.5 [4.0(Min.) - 16.5(Max.)] 4.22				
	Power consumption Cooling Heating		$ _{kW}$					
			_ KVV		57			
	Max power consumption			10.20				
	Running current Cooling Heating Inrush current, max current		⊣ ⊦	6.2 / 6.5				
			_ A _		/ 5.5			
Operation				5,	15			
data	Power factor	Cooling		9	9			
	1 ower factor	Heating	- %	9	9			
	EER	Cooling		3.	22			
	COP	Heating	7	3.	88			
		Cooling		55	72			
	Sound power level	Heating	7	56	73			
		Cooling	dB(A)	P-Hi: 41 Hi: 33 Me: 30 Lo: 26	56			
	Sound pressure level	Heating	- GD(A)	P-Hi: 42 Hi: 33 Me: 28 Lo: 20	58			
	Silent mode sound pressure le		┥ ├	F-Hi. 42 Hi. 33 Me. 20 Lo. 20	49 /45(Normal/Silent)			
	John House Souria pressure le	V CI	+ +	Unit 236 x 840 x 840	45 /45(NOTHAI/SHELL)			
Exterior dimen	sions (Height x Width x Depth)		mm	Panel 35 x 950 x 950	845x970x370			
Exterior appea	rance			Plaster white	Stucco white			
(Munsell color)			(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent			
(RAL color)				(RAL 9003) near equivalent	(RAL 7044) near equivalent			
Net weight			kg	Unit 19 Panel 5	78			
Compressor ty	/pe & Q'ty			_	RMT5126SWP4 x 1			
Compressor m	notor (Starting method)		kW	_	Direct line start			
	(Amount, type)		L	_	0.9 (M-MB75)			
	ype, amount, pre-charge length)		kg	R32 3.30 in outdoor unit (incl. the	(
Heat exchange			I Ng	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing			
Refrigerant co			+		pansion valve			
	·							
Fan type & Q't	•			Turbo fan x1	Propeller fan x1			
Fan motor (Sta	arting method)	T =	W	50 < Direct line start >	86 < Direct line start >			
Air flow		Cooling	m³/min	P-Hi: 22 Hi: 16 Me: 13 Lo: 10	75			
		Heating	,	22 201.10	73			
Available exter	rnal static pressure		Pa	0	0			
Outside air int	ake			Possible	_			
Air filter, Qualit	ty / Quantity			Pocket plastic net x1(Washable)	_			
Shock & vibrat	tion absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compresso			
Electric heater			W	_	20(Crank case heater)			
	Remote control			(Option) Wired: RC-EX3A, RC-E5,	, RCH-E3 Wireless : RCN-T-5AW-E2			
Operation	Room temperature control				by electronics			
control	Operation display		1	-	=			
Safety equipm				Frost protecti Internal thermos	tion for fan motor on thermostat stat for fan motor emperature protection			
	Refrigerant piping size (O.D)	Liquid line Gas line	mm	I/U φ 6.35 (1/4") ② φ 9.52(3/8")x0.8	① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8")			
	Connecting method			Flare piping	Flare piping			
Installation	Attached length of piping		m	_	_			
data	Insulation for piping		+	Necessary (both I	ı Liquid & Gas lines)			
	Refrigerant line (one way) leng	ıth	m		x.50			
	Vertical height diff. between O/U a			Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)			
		uiu I/U	m	· · · · · · · · · · · · · · · · · · ·	` '			
	Drain hose		1	Hose connectable with VP25(O.D.32)	Hole size φ 20 x 3pcs			
Drain pump, m			mm	Built-in drain pump , 850	_			
	d breaker size		A					
R.A. (Locked	rotor ampere)		A	5	5.0			
Interconnectin	g wires Size x C	ore number		φ 1.6mmx 3 cores + earth cable	/ Terminal block (Screw fixing type)			
P number				IPX0	IP24			
Standard acce	essories	-	1	Mounting kit, Drain hose	_			
Option parts			+		or : LB-T-5W-E			
parto	Option parts			141041011 301130				

The pipe length is 7.5m.

Item	Indoor air temperature		Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.

 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

 (4) Select the breaker size according to the own national standard.

 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.

 (6) Indoor unit specifications for one unit. Capacity and operation data is three indoor units are combined and run together.

 (7) Branching pipe set "DIS-TB1G"×1(Option). ①: Pipe of O/U Branch, ②: Pipe of Branch I/U

(2) Ceiling cassette-4 way compact type (FDTC)

(a) Twin type

Item			Model		VNAWPVH		
Item				Indoor unit FDTC50VH (2 units)	Outdoor unit FDC100VNA-W		
Power source					V 50Hz / 220V 60Hz		
	Nominal cooling capacity (ran	<u> </u>	kW		.) - 11.2(Max.)]		
	Nominal heating capacity (rai	nge)	kW	11.2 [4.0(Min.) - 12.5(Max.)]			
	Power consumption Cooling Heating Max power consumption			3.15			
			kW	3.	05		
				6.	40		
	Running current Cooling Heating Inrush current, max current Power factor Cooling Heating			13.8	/ 14.5		
			Α [13.4	/ 14.0		
				5,	24		
Operation				9	9		
data			- % -	9	9		
	EER	Cooling		3.	17		
	COP	Heating	1		67		
		Cooling			69		
	Sound power level	Heating	-	59	70		
		Cooling	dB(A)		54		
	Sound pressure level		-	P-Hi: 44 Hi 40 Me: 35 Lo: 27	55		
		Heating			* * * * * * * * * * * * * * * * * * * *		
	Silent mode sound pressure	evei			48 / 44 (Normal / Silent)		
Exterior dimer	sions (Height x Width x Depth)		mm	Unit 248 x 570 x 570	845x970x370		
			+ +	Panel 10 x 620 x 620	01:		
Exterior appea (Munsell color				Fine snow	Stucco white (4.2Y7.5/1.1) near equivalent		
RAL color))			(8.0Y9.3/0.1) near equivalent (RAL 9001) near equivalent	(RAL 7044) near equivalent		
,			len.	Unit 14 Panel 2.5	77		
Net weight	ran 9 Older		kg	Unit 14 Panel 2.5	RMT5126SWP3 x 1		
Compressor ty	, ,		1304	_			
	notor (Starting method)		kW		Direct line start		
	(Amount, type)		L	-	0.9 (M-MB75)		
	ype, amount, pre-charge length	1)	kg		e amount for the piping of 30m)		
Heat exchang				Louver fin & inner grooved tubing	M shape fin & inner grooved tubing		
Refrigerant co				Electronic ex	pansion valve		
an type & Q'	ty			Turbo fan x1	Propeller fan x 1		
an motor (St	arting method)		W	50 < Direct line start >	86 (Direct line start)		
Air flow		Cooling	m³/min	P-Hi: 13 Hi: 11 Me: 9 Lo: 7	75		
All HOW		Heating	7 '''/''''	P-HI. 13 HI. 11 Me. 9 LO. 7	73		
Available exte	rnal static pressure	•	Pa	0	0		
Outside air int	ake			Possible –			
Air filter, Quali	ty / Quantity			Pocket plastic net x1(Washable)	_		
Shock & vibra	 			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compresso		
Electric heater			W	– 20 (Crank case heate			
	Remote control			(Option) Wired : BC-FX3A BC-F5 I	RCH-E3 Wireless : RCN-TC-5AW-E2		
Operation	Room temperature control			, , ,	oy electronics		
control	Operation display			Theimostat t	by electronics		
	Operation display			Overland protect	tion for fan motor		
					on thermostat		
Safety equipm	ents			•	stat for fan motor		
					emperature protection		
	Definement states : (O.5)	Liquid line			① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8")		
	Refrigerant piping size (O.D)	Gas line	mm	I/U φ 12.7 (1/2") ② φ 12.7(1/2")x0.8	① φ 15.88(5/8")x1.0 O/U φ 15.88 (5/8")		
	Connecting method		1	Flare piping	Flare piping		
nstallation	Attached length of piping		m				
nstallation data	0 11 0		- ""				
	Insulation for piping		++		Liquid & Gas lines)		
	Refrigerant line (one way) ler		m		x.50		
	Vertical height diff. between O/U	and I/U	m	, , ,	/ Max.15 (Outdoor unit is lower)		
Drain hose				Hose connectable with VP25(O.D.32)	Hole size φ 20 x 3pcs		
Orain pump, n	nax lift height		mm	Built-in drain pump , 850	_		
Recommende	d breaker size		А				
R.A. (Locked	d rotor ampere)		А	5	.0		
Interconnectin	g wires Size x	Core number		φ 1.6mmx 3 cores + earth cable	Terminal block (Screw fixing type)		
P number	-			IPX0	IP24		
Standard acce	essories			Mounting kit, Drain hose	_		
				OA Spacer : TC-OAS-E2 , TC-OA	D_E_Motion_sensor : LR_TC_5W_E		
Option parts							

	(1) The data are measur	The pipe length is 7.5m.				
Item		Indoor air temperature		Outdoor air temperature		Standards
	Operation	DB	WB	DB	WB	Staridards
	Cooling	27°C	19℃	35°C	24°C	ISO5151-T1
	Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
 (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.
 (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U Branch, ②: Pipe of Branch I/U

ltom			Model	FDTC100\		
Item				Indoor unit FDTC50VH (2 units)	Outdoor unit FDC100VSA-W	
Power source	· · · · · · · · · · · · · · · · · · ·			3 Phase, 380 - 415\		
	Nominal cooling capacity (rang		kW	10.0 [4.0(Min.		
	Nominal heating capacity (range)		kW	11.2 [4.0(Min.		
	Power consumption Cooling		_	3.		
	T GWGI GGIIGGIII PAGII	Heating	kW	3.0	05	
	Max power consumption			10.	20	
	Diversion accurate	Cooling		4.6 /	4.9	
	Running current Heating		A	4.4 /	4.7	
	Inrush current, max current		7	5,	15	
Operation	Power factor Cooling Heating			9	8	
data			- % -	9	9	
	EER	Cooling		3.	17	
	COP	Heating	1	3.6		
		Cooling	+ +		69	
	Sound power level	Heating	1	59	70	
		Cooling	dB(A)		54	
	Sound pressure level	Heating	- GD(A)	P-Hi: 44 Hi 40 Me: 35 Lo: 27	55	
	Cilent made assued pressure le					
	Silent mode sound pressure le	vei			48 / 44 (Normal / Silent)	
Exterior dimer	nsions (Height x Width x Depth)		mm	Unit 248 x 570 x 570 Panel 10 x 620 x 620	845x970x370	
Exterior appea				Fine snow	Stucco white	
(Munsell color	•)			(8.0Y9.3/0.1) near equivalent	(4.2Y7.5/1.1) near equivalent	
(RAL color)				(RAL 9001) near equivalent	(RAL 7044) near equivalent	
Net weight			kg	Unit 14 Panel 2.5	78	
Compressor ty	ype & Q'ty			_	RMT5126SWP4 x 1	
Compressor n	notor (Starting method)		kW	_	Direct line start	
Refrigerant oil	(Amount, type)		L	_	0.9 (M-MB75)	
Refrigerant (T	ype, amount, pre-charge length)		kg	R32 3.3 in outdoor unit (Incl. the amount for the piping of 30m)		
Heat exchang	, , , , , , , , , , , , , , , , , , , 			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing	
Refrigerant co				Electronic ex		
Fan type & Q'			1	Turbo fan x1	Propeller fan x 1	
	arting method)		W	50 < Direct line start >	86 (Direct line start)	
ran motor (ou	arting motilody	Cooling	+ '' +	oo (Biroot iiilo otart)	75	
Air flow		Heating	m³/min	P-Hi: 13 Hi: 11 Me: 9 Lo: 7	73	
Available exte	rnal static pressure	rieating	Pa	0	0	
Outside air int	· · · · · · · · · · · · · · · · · · ·		ıα	Possible —		
			+			
Air filter, Quality / Quantity			+	Pocket plastic net x1(Washable)		
Classic O vilans				Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compress	
			147		00 (0 1 1 1)	
	1		W	-	20 (Crank case heater)	
Electric heater	Remote control		W	(Option) Wired: RC-EX3A, RC-E5, F	RCH-E3 Wireless : RCN-TC-5AW-E2	
Electric heater	Remote control Room temperature control		W	— (Option) Wired : RC-EX3A, RC-E5, F Thermostat b	RCH-E3 Wireless : RCN-TC-5AW-E2	
Electric heater	Remote control		W	Thermostat b	RCH-E3 Wireless : RCN-TC-5AW-E2 y electronics	
Electric heater	Remote control Room temperature control		W	Thermostat b - Overload protect	RCH-E3 Wireless: RCN-TC-5AW-E2 y electronics - ion for fan motor	
Electric heater Operation control	Remote control Room temperature control Operation display		W	Thermostat b Overload protect Frost protectic	RCH-E3 Wireless : RCN-TC-5AW-E2 y electronics - ion for fan motor on thermostat	
Electric heater Operation control	Remote control Room temperature control Operation display		W	Thermostat b Overload protecti Frost protectic Internal thermos	RCH-E3 Wireless: RCN-TC-5AW-E2 y electronics - ion for fan motor on thermostat tat for fan motor	
Electric heater Operation control	Remote control Room temperature control Operation display	Liquid line		Thermostat b Overload protect Frost protectic Internal thermos Abnormal discharge te	ACH-E3 Wireless: RCN-TC-5AW-E2 y electronics - ion for fan motor on thermostat tat for fan motor emperature protection	
Electric heater Operation control	Remote control Room temperature control Operation display	Liquid line	mm	Thermostat b Overload protect Frost protectic Internal thermos Abnormal discharge te I/U \$\phi\$ 6.35 (1/4") \$\@\phi\$ 9.52(3/8")x0.8	ACH-E3 Wireless: RCN-TC-5AW-E2 y electronics ion for fan motor on thermostat tat for fan motor emperature protection ① \$\phi\$ 9.52(3/8")x0.8 O/U \$\phi\$ 9.52 (3/8")	
Electric heater Operation control	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D)	Liquid line Gas line		Thermostat b Overload protect Frost protectic Internal thermos Abnormal discharge te I/U \$\phi\$ 6.35 (1/4") ② \$\phi\$ 9.52(3/8")x0.8 I/U \$\phi\$ 12.7 (1/2") ② \$\phi\$ 12.7(1/2")x0.8	ACH-E3 Wireless: RCN-TC-5AW-E2 y electronics ion for fan motor on thermostat tat for fan motor emperature protection ① \(\phi \) 9.52(3/8")x0.8 \(\text{O/U} \phi \) 9.52 (3/8") ① \(\phi \) 15.88(5/8")x1.0 \(\text{O/U} \phi \) 15.88 (5/8")	
Electric heater Operation control Safety equipm	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method	_	mm	Thermostat b Overload protect Frost protectic Internal thermos Abnormal discharge te I/U \$\phi\$ 6.35 (1/4") \$\@\phi\$ 9.52(3/8")x0.8	RCH-E3 Wireless: RCN-TC-5AW-E2 yy electronics ion for fan motor on thermostat tat for fan motor emperature protection ① \(\phi \) 9.52(3/8")x0.8 \(\O/\text{U} \) \(\phi \) 9.52 (3/8") ① \(\phi \) 15.88(5/8")x1.0 \(\O/\text{U} \) \(\phi \) 15.88 (5/8") Flare piping	
Departion Control Safety equipm	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping	_		Thermostat b Overload protect Frost protectic Internal thermos Abnormal discharge te I/U \$\phi\$ 6.35 (1/4") @ \$\phi\$ 9.52(3/8")x0.8 I/U \$\phi\$ 12.7 (1/2") @ \$\phi\$ 12.7(1/2")x0.8 (Flare piping	RCH-E3 Wireless: RCN-TC-5AW-E2 y electronics ion for fan motor on thermostat tat for fan motor emperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 O/U φ 15.88 (5/8") Flare piping	
Departion Control Safety equipm	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping	Gas line	- mm -	Thermostat b Overload protect Frost protectic Internal thermos Abnormal discharge te I/U \$\phi\$ 6.35 (1/4") \$\@\phi\$ 9.52(3/8")x0.8 I/U \$\phi\$ 12.7 (1/2") \$\@\phi\$ 12.7(1/2")x0.8 (Flare piping Necessary (both L	RCH-E3 Wireless: RCN-TC-5AW-E2 yy electronics ion for fan motor on thermostat tat for fan motor emperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 O/U φ 15.88 (5/8") Flare piping — .iquid & Gas lines)	
Departion Control Safety equipm	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng	Gas line	m m	Thermostat b Overload protect Frost protectic Internal thermos Abnormal discharge te I/U \$\phi\$ 12.7 (1/2") @\$\phi\$ 12.7(1/2")x0.8 Flare piping Necessary (both L Max	RCH-E3 Wireless: RCN-TC-5AW-E2 y electronics fion for fan motor on thermostat tat for fan motor emperature protection 1	
Electric heater Operation control Safety equipm	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a	Gas line	- mm -	Thermostat b Overload protect Frost protectic Internal thermos Abnormal discharge te I/U \$\phi\$ 0.35 (1/4") \$\@\phi\$ 9.52(3/8")x0.8 I/U \$\phi\$ 12.7 (1/2") \$\@\phi\$ 12.7(1/2")x0.8 (Flare piping — Necessary (both L Max Max.50 (Outdoor unit is higher)	RCH-E3 Wireless: RCN-TC-5AW-E2 y electronics fion for fan motor on thermostat tat for fan motor emperature protection 1	
Departion Control Safety equipm	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng	Gas line	m m	Thermostat b Overload protect Frost protecti Internal thermos Abnormal discharge te I/U \$\phi\$ 6.35 (1/4") @ \$\phi\$ 9.52(3/8")x0.8 I/U \$\phi\$ 12.7 (1/2") @ \$\phi\$ 12.7(1/2")x0.8 (Flare piping — Necessary (both L Max Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32)	RCH-E3 Wireless: RCN-TC-5AW-E2 y electronics fion for fan motor on thermostat tat for fan motor emperature protection 1	
Electric heater Operation control Safety equipm installation data	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose	Gas line	m m	Thermostat b Overload protect Frost protectic Internal thermos Abnormal discharge te I/U \$\phi\$ 0.35 (1/4") \$\@\phi\$ 9.52(3/8")x0.8 I/U \$\phi\$ 12.7 (1/2") \$\@\phi\$ 12.7(1/2")x0.8 (Flare piping — Necessary (both L Max Max.50 (Outdoor unit is higher)	RCH-E3 Wireless: RCN-TC-5AW-E2 y electronics fion for fan motor on thermostat tat for fan motor emperature protection	
Departion Depart	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose	Gas line	m m m	Thermostat b Overload protect Frost protecti Internal thermos Abnormal discharge te I/U \$\phi\$ 6.35 (1/4") @ \$\phi\$ 9.52(3/8")x0.8 I/U \$\phi\$ 12.7 (1/2") @ \$\phi\$ 12.7(1/2")x0.8 (Flare piping — Necessary (both L Max Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32)	RCH-E3 Wireless: RCN-TC-5AW-E2 y electronics fion for fan motor on thermostat tat for fan motor emperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ② φ 15.88(5/8")x1.0 O/U φ 15.88 (5/8") Flare piping — iquid & Gas lines) x.50 / Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs —	
Electric heater Departion Control Safety equipm Installation data Drain pump, in Recommende	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose nax lift height	Gas line	m m m mm	Thermostat b Overload protect Frost protectic Internal thermos Abnormal discharge te I/U \$\phi\$ 6.35 (1/4") @ \$\phi\$ 9.52(3/8")x0.8 I/U \$\phi\$ 12.7 (1/2") @ \$\phi\$ 12.7(1/2")x0.8 (Flare piping — Necessary (both L Max Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump , 850	RCH-E3 Wireless: RCN-TC-5AW-E2 y electronics fion for fan motor on thermostat tat for fan motor emperature protection 1	
Department of the control of the con	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose nax lift height d breaker size d rotor ampere)	Gas line	m m m m A	Thermostat b Overload protect Frost protectic Internal thermos Abnormal discharge te I/U \$\phi\$ 6.35 (1/4") @ \$\phi\$ 9.52(3/8")x0.8 I/U \$\phi\$ 12.7 (1/2") @ \$\phi\$ 12.7(1/2")x0.8 (Flare piping — Necessary (both L Max Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump , 850	RCH-E3 Wireless: RCN-TC-5AW-E2 y electronics - ion for fan motor on thermostat tat for fan motor emperature protection ① \$\phi\$ 9.52(3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") ② \$\phi\$ 15.88(5/8")x1.0 O/U \$\phi\$ 15.88 (5/8") Flare piping — iquid & Gas lines) 50 / Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3pcs —	
Electric heater Operation control Safety equipm Installation data Drain pump, n Recommende L.R.A. (Locked Interconnectir	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose nax lift height d breaker size d rotor ampere)	Gas line th nd I/U	m m m m A	Thermostat b Overload protect Frost protectic Internal thermos Abnormal discharge te I/U \$\phi\$ 6.35 (1/4") @ \$\phi\$ 9.52(3/8")x0.8 I/U \$\phi\$ 12.7 (1/2") @ \$\phi\$ 12.7(1/2")x0.8 (Flare piping — Necessary (both L Max Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump , 850	RCH-E3 Wireless: RCN-TC-5AW-E2 y electronics - ion for fan motor on thermostat tat for fan motor emperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 O/U φ 15.88 (5/8") Flare piping — iquid & Gas lines) x.50 / Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs —	
	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose nax lift height d breaker size d rotor ampere) ng wires Size x Co	Gas line th nd I/U	m m m m A	Thermostat b Overload protect Frost protectic Internal thermos Abnormal discharge te I/U \$\phi\$ 6.35 (1/4") @ \$\phi\$ 9.52(3/8")x0.8 I/U \$\phi\$ 12.7 (1/2") @ \$\phi\$ 12.7(1/2")x0.8 (Flare piping — Necessary (both L Max Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump , 850 \$\phi\$ 1.6mmx 3 cores + earth cable /	RCH-E3 Wireless: RCN-TC-5AW-E2 y electronics fon for fan motor on thermostat tat for fan motor preparature protection Φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") Flare piping — Liquid & Gas lines) κ.50 / Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs — 0 Terminal block (Screw fixing type)	

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
 (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.
 (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U Branch, ②: Pipe of Branch I/U

Item			Model		/NAWPVH		
				Indoor unit FDTC60VH (2 units)	Outdoor unit FDC125VNA-W		
Power source	T			· · · · · · · · · · · · · · · · · · ·	V 50Hz / 220V 60Hz		
	Nominal cooling capacity (rang		kW		.) - 14.0(Max.)]		
	Nominal heating capacity (rang		kW		.) - 16.0(Max.)]		
	Power consumption	Cooling			90		
	Heating		kW		30		
	Max power consumption			6.40			
	Running current Cooling			21.5	/ 22.5		
			A	18.9	/ 19.7		
D				5,	24		
Operation data			0,4	9	9		
Jala	Power factor	Heating	- % -	9	9		
	EER	Cooling		2.	55		
	COP	Heating		3.:	26		
		Cooling		-			
	Sound power level	Heating	-	60	71		
		Cooling	dB(A)		54		
	Sound pressure level	Heating	- GD(A)	P-Hi: 46 Hi 42 Me: 38 Lo: 31	56		
	Ottorat and also and also and also and also and also also also also also also also also		-				
	Silent mode sound pressure le	vei		-	48 / 45 (Normal / Silent)		
exterior dimen	sions (Height x Width x Depth)		mm	Unit 248 x 570 x 570 Panel 10 x 620 x 620	845x970x370		
Exterior appea	rance			Fine snow	Stucco white		
Munsell color)			(8.0Y9.3/0.1) near equivalent	(4.2Y7.5/1.1) near equivalent		
RAL color)				(RAL 9001) near equivalent	(RAL 7044) near equivalent		
let weight			kg	Unit 14 Panel 2.5	77		
Compressor ty	rpe & Q'ty			_	RMT5126SWP3 x 1		
Compressor m	notor (Starting method)		kW	_	Direct line start		
	(Amount, type)		L	_	0.9 (M-MB75)		
	/pe, amount, pre-charge length)		kg	R32 3.3 in outdoor unit (Incl. the amount for the piping of 30m)			
leat exchange			i iig	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing		
Refrigerant co				9	pansion valve		
an type & Q't	·			Turbo fan x1	Propeller fan x 1		
			W		·		
an motor (Sta	urting method)	0	VV	50 < Direct line start >	86 (Direct line start)		
Air flow		Cooling Heating	m³/min	P-Hi: 14 Hi: 12 Me: 10 Lo: 8	75 73		
Vallabla avta	and static procesure	rieating	Pa	0 0			
	nal static pressure		Ра				
Outside air inta				Possible –			
Air filter, Qualit	· · · · · · · · · · · · · · · · · · ·			Pocket plastic net x1(Washable)	_		
Shock & vibrat				Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compresso		
Electric heater	1		W	_	20 (Crank case heater)		
Operation	Remote control				RCH-E3 Wireless : RCN-TC-5AW-E2		
control	Room temperature control			Thermostat b	by electronics		
	Operation display			-	_		
					ion for fan motor		
Safety equipm	ents			•	on thermostat		
					tat for fan motor		
	1	Limitel Co.	+		emperature protection		
	Refrigerant piping size (O.D)	Liquid line	mm –		① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8")		
		Gas line			① φ 15.88(5/8")x1.0 O/U φ 15.88 (5/8")		
	Connecting method			Flare piping	Flare piping		
nstallation	Attached length of piping		m	_			
lata	Insulation for piping			Necessary (both I	Liquid & Gas lines)		
	Refrigerant line (one way) leng	th	m		x.50		
	Vertical height diff. between O/U a		m		/ Max.15 (Outdoor unit is lower)		
	Drain hose			Hose connectable with VP25(O.D.32)	Hole size ϕ 20 x 3pcs		
rain pump, m	L		mm	Built-in drain pump , 850			
	d breaker size			built-in drain pump , 650			
			A	-	-		
•	rotor ampere)		A		.0		
	g wires Size x C	ore number		·	Terminal block (Screw fixing type)		
nterconnectin P number				IPX0	IP24		
	ssories			Mounting kit, Drain hose	IP24 — D-E , Motion sensor : LB-TC-5W-E		

The	nine	lenath	is	7.5m

Item	Indoor air temperature		Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
 (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.
 (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U Branch, ②: Pipe of Branch I/U

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			Model	FDTC125\	/SAWPVH
Item				Indoor unit FDTC60VH (2 units)	Outdoor unit FDC125VSA-W
Power source					V 50Hz / 380V 60Hz
	Nominal cooling capacity (range	ne)	kW	12.5 [5.0(Min.	
	Nominal heating capacity (range	<u> </u>	kW	14.0 [4.0(Min.	
	Cooling		KVV		90
	Power consumption		H kW H		
		Heating	- KVV -		30
	Max power consumption				.20
	Running current Cooling		- L	7.1 ,	
		Heating	_ A _	6.3	
Operation	Inrush current, max current			5,	15
data	Power factor	Cooling	_ %	9	9
aata	1 Owel lactor	Heating	/0	9	9
	EER	Cooling		2.	55
	COP	Heating	T [3.:	26
		Cooling			
	Sound power level	Heating	1	60	71
		Cooling	dB(A)		54
	Sound pressure level	Heating	- ab()	P-Hi: 46 Hi 42 Me: 38 Lo: 31	56
	Cilent made sound pressure le		┥ ├		
	Silent mode sound pressure le	V C I	+ +	Unit 248 x 570 x 570	48 / 45 (Normal / Silent)
Exterior dimen	sions (Height x Width x Depth)		mm	Panel 10 x 620 x 620	845x970x370
Exterior appea	irance				Ctupesbits
(Munsell color				Fine snow (8.0Y9.3/0.1) near equivalent	Stucco white (4.2Y7.5/1.1) near equivalent
(RAL color))			(RAL 9001) near equivalent	(RAL 7044) near equivalent
· ,			lin	Unit 14 Panel 2.5	78
Net weight			kg		78 RMT5126SWP4 x 1
Compressor ty	· · · · · · · · · · · · · · · · · · ·				1 11
	notor (Starting method)		kW		Direct line start
	(Amount, type)		L	— 0.9 (M-MB75)	
Refrigerant (Ty	ype, amount, pre-charge length)		kg	R32 3.3 in outdoor unit (Incl. the	
Heat exchange	er			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant co	ntrol			Electronic ex	pansion valve
Fan type & Q't	у			Turbo fan x1	Propeller fan x 1
Fan motor (Sta	arting method)		W	50 < Direct line start >	86 (Direct line start)
,	,	Cooling	1		75
Air flow		Heating	m³/min	P-Hi: 14 Hi: 12 Me: 10 Lo: 8	73
Available exter	rnal static pressure	110001119	Pa	0	0
Outside air inta	·		+	Possible	_
Air filter, Qualit			+ +	Pocket plastic net x1(Washable)	_
	· · · · · · · · · · · · · · · · · · ·		+		Dubban dans (for for section 0 conserved)
Shock & vibrat			1 14/	Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compresso
Electric heater	1		W		20 (Crank case heater)
Operation	Remote control			(Option) Wired: RC-EX3A, RC-E5, I	
control	Room temperature control			Thermostat b	by electronics
	Operation display			-	_
					ion for fan motor
Safety equipm	ents				on thermostat
, , ,				Internal thermos	
				Abnormal discharge to	
		Liquid II	1		
	Refrigerant piping size (O.D)	Liquid line	mm –	I/U φ 6.35 (1/4") ② φ 9.52(3/8")x0.8	
		Liquid line Gas line	mm	I/U φ 12.7 (1/2") ② φ 12.7(1/2")x0.8	① φ 15.88(5/8")x1.0 O/U φ 15.88 (5/8")
	Connecting method	<u> </u>	mm -	I/U φ 12.7 (1/2") ② φ 12.7(1/2")x0.8 (Flare piping	① φ 15.88(5/8")x1.0 O/U φ 15.88 (5/8") Flare piping
Installation		<u> </u>	mm –	I/U φ 12.7 (1/2") ② φ 12.7(1/2")x0.8	① φ 15.88(5/8")x1.0 O/U φ 15.88 (5/8")
	Connecting method	<u> </u>		I/U φ 12.7 (1/2") ② φ 12.7(1/2")x0.8 (Flare piping —	① φ 15.88(5/8")x1.0 O/U φ 15.88 (5/8") Flare piping
	Connecting method Attached length of piping Insulation for piping	Gas line	m	I/U φ 12.7 (1/2") ②φ 12.7(1/2")x0.8 (Flare piping — Necessary (both I	1) \$\phi\$ 15.88(5/8")x1.0 O/U \$\phi\$ 15.88 (5/8") Flare piping — Liquid & Gas lines)
	Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng	Gas line	m m	I/U φ 12.7 (1/2") ② φ 12.7(1/2")x0.8 (Flare piping — Necessary (both I	1 \(\phi \) 15.88(5/8")x1.0 \(\text{O/U} \(\phi \) 15.88 (5/8") Flare piping \(-\) Liquid & Gas lines) x.50
	Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a	Gas line	m	I/U φ 12.7 (1/2") ② φ 12.7(1/2")x0.8 (Flare piping — Necessary (both I Ma. Max.50 (Outdoor unit is higher)	1) \$\phi\$ 15.88(5/8")x1.0 O/U \$\phi\$ 15.88 (5/8") Flare piping — Liquid & Gas lines) x.50 / Max.15 (Outdoor unit is lower)
data	Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose	Gas line	m m m	I/U φ 12.7 (1/2") ② φ 12.7(1/2")x0.8 Flare piping — Necessary (both I Ma. Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32)	1 \(\phi \) 15.88(5/8")x1.0 \(\O/\U \) \(\phi \) 15.88 (5/8") Flare piping \(-\) Liquid & Gas lines) x.50
data Drain pump, m	Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose nax lift height	Gas line	m m m	I/U φ 12.7 (1/2") ② φ 12.7(1/2")x0.8 Flare piping — Necessary (both I Ma. Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump , 850	1) \$\phi\$ 15.88(5/8")x1.0 O/U \$\phi\$ 15.88 (5/8") Flare piping — Liquid & Gas lines) x.50 / Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3pcs —
data Drain pump, m Recommende	Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose nax lift height d breaker size	Gas line	m m m A	I/U	1) \$\phi\$ 15.88(5/8")x1.0 O/U \$\phi\$ 15.88 (5/8") Flare piping — Liquid & Gas lines) x.50 / Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3pcs —
data Drain pump, m Recommende	Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose nax lift height d breaker size I rotor ampere)	Gas line th	m m m	I/U ϕ 12.7 (1/2") $\oslash \phi$ 12.7(1/2")x0.8 (Flare piping — Necessary (both I Ma Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump , 850	1) \$\phi\$ 15.88(5/8")x1.0 O/U \$\phi\$ 15.88 (5/8") Flare piping — Liquid & Gas lines) x.50 / Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3pcs — .0
Drain pump, n Recommende L.R.A. (Locked Interconnectin	Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose nax lift height d breaker size I rotor ampere)	Gas line	m m m A	I/U	1) \$\phi\$ 15.88(5/8")x1.0 O/U \$\phi\$ 15.88 (5/8") Flare piping — Liquid & Gas lines) x.50 / Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3pcs — .0 / Terminal block (Screw fixing type)
Installation data Drain pump, m Recommender L.R.A. (Locked Interconnectin	Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose nax lift height d breaker size I rotor ampere)	Gas line th	m m m A	I/U ϕ 12.7 (1/2") $\oslash \phi$ 12.7(1/2")x0.8 (Flare piping — Necessary (both I Ma Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump , 850	1
Drain pump, m Recommende L.R.A. (Locked Interconnectin	Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose nax lift height d breaker size I rotor ampere) g wires Size x C	Gas line th	m m m A	I/U	1) \$\phi\$ 15.88(5/8")x1.0 O/U \$\phi\$ 15.88 (5/8") Flare piping — Liquid & Gas lines) x.50 / Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3pcs — .0 / Terminal block (Screw fixing type)

The	nine	lenath	is	7.5m

Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
 (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.
 (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U Branch, ②: Pipe of Branch I/U

(b) Triple type

			Model	FDTC140	VNAWTVH
Item				Indoor unit FDTC50VH (3 units)	Outdoor unit FDC140VNA-W
Power source				1 Phase, 220 - 240	V 50Hz / 220V 60Hz
	Nominal cooling capacity (rang	je)	kW	13.6 [5.0(Min	.) - 14.5(Max.)]
	Nominal heating capacity (rang	je)	kW	15.5 [4.0(Min	.) - 16.5(Max.)]
		Cooling		4.	75
	Power consumption	Heating	kW	4.	60
	Max power consumption		1	6.	40
	max power consumption	Cooling			/ 21.8
	Running current	Heating			/ 21.1
	Inrush current, max current	Treating	A		24
Operation	mildsir current, max current	Cooling	+		99
data	Power factor	Cooling	- % -		99
		Heating	+		
	EER	Cooling			86
	COP	Heating		3.	37
	Sound power level	Cooling	_	59	72
	Country power lover	Heating	_		73
	Sound pressure level	Cooling	dB(A)	P-Hi: 44 Hi 40 Me: 35 Lo: 27	56
	Souria pressure level	Heating		F-HI. 44 HI 40 Me. 33 LO. 21	58
	Silent mode sound pressure le	vel	7	_	49 / 45 (Normal / Silent)
	sions (Height v Width v Donth)		mm	Unit 248 x 570 x 570	945,070,270
exterior almen	sions (Height x Width x Depth)		mm	Panel 10 x 620 x 620	845x970x370
Exterior appea	rance			Fine snow	Stucco white
Munsell color				(8.0Y9.3/0.1) near equivalent	(4.2Y7.5/1.1) near equivalent
RAL color)				(RAL 9001) near equivalent	(RAL 7044) near equivalent
Net weight			kg	Unit 14 Panel 2.5	77
Compressor ty	rpe & O'tv		+ +	_	RMT5126SWP3 x 1
	notor (Starting method)		kW	_	Direct line start
	(Amount, type)		L		0.9 (M-MB75)
	, , , ,				. ,
	/pe, amount, pre-charge length)		kg	,	e amount for the piping of 30m)
Heat exchanger		++	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing	
Refrigerant cor					pansion valve
an type & Q't	у			Turbo fan x1	Propeller fan x 1
an motor (Sta	arting method)		W	50 < Direct line start >	86 (Direct line start)
Air flow		Cooling	m³/min	P-Hi: 13 Hi: 11 Me: 9 Lo: 7	75
All HOW		Heating	''' /''	1-111. 13 111. 11 IVIE. 9 LO. 1	73
Available exter	nal static pressure		Pa	0 0	
Outside air inta	ake			Possible	_
Air filter, Qualit	y / Quantity			Pocket plastic net x1(Washable)	_
	· · · · · · · · · · · · · · · · · · ·		+ +	Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compresso
Shock & vibration absorber					
			+ w +	—	
			W	_	20 (Crank case heater)
Electric heater	Remote control		W	(Option) Wired: RC-EX3A, RC-E5,	20 (Crank case heater) RCH-E3 Wireless : RCN-TC-5AW-E2
Electric heater Operation	Remote control Room temperature control		W	(Option) Wired: RC-EX3A, RC-E5,	20 (Crank case heater)
Electric heater Operation	Remote control		W	(Option) Wired: RC-EX3A, RC-E5, Thermostat I	20 (Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics
Electric heater Operation	Remote control Room temperature control		W	(Option) Wired: RC-EX3A, RC-E5, Thermostat to Overload protect	20 (Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics tion for fan motor
Electric heater Operation control	Remote control Room temperature control Operation display		W	(Option) Wired: RC-EX3A, RC-E5, Thermostat I Overload protect Frost protecti	20 (Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics tion for fan motor on thermostat
Electric heater Operation control	Remote control Room temperature control Operation display		W	(Option) Wired: RC-EX3A, RC-E5, Thermostat I Overload protect Frost protecti Internal thermos	20 (Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics tion for fan motor on thermostat stat for fan motor
Electric heater Operation control	Remote control Room temperature control Operation display ents	Liquid line	W	(Option) Wired: RC-EX3A, RC-E5, Thermostat I Overload protect Frost protecti Internal thermos Abnormal discharge t	20 (Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics tion for fan motor on thermostat btat for fan motor emperature protection
Electric heater Operation control	Remote control Room temperature control Operation display	Liquid line	W mm	Overload protect Frost protect Internal thermos Abnormal discharge t I/U \$\phi\$ 6.35 (1/4") \$\@\phi\$ 9.52(3/8")x0.8	20 (Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection ① \$\phi\$ 9.52(3/8")x0.8 O/U \$\phi\$ 9.52 (3/8")
Electric heater Operation control	Remote control Room temperature control Operation display ents Refrigerant piping size (O.D)	Liquid line Gas line		(Option) Wired: RC-EX3A, RC-E5, Thermostat I Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 6.35 (1/4") ②φ 9.52(3/8")x0.8 I/U φ 12.7 (1/2") ②φ 12.7(1/2")x0.8	20 (Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection ① \$\phi\$ 9.52(3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") ① \$\phi\$ 15.88(5/8")x1.0 O/U \$\phi\$ 15.88 (5/8")
Electric heater Dperation control Safety equipment	Remote control Room temperature control Operation display ents Refrigerant piping size (O.D) Connecting method		- mm	Overload protect Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 6.35 (1/4") ②φ 9.52(3/8")x0.8 I/U φ 12.7 (1/2") ②φ 12.7(1/2")x0.8 Flare piping	20 (Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection ① \$\phi\$ 9.52(3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") ① \$\phi\$ 15.88(5/8")x1.0 O/U \$\phi\$ 15.88 (5/8")
Department of the control of the con	Remote control Room temperature control Operation display ents Refrigerant piping size (O.D)			Overload protect Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 6.35 (1/4") ②φ 9.52(3/8")x0.8 I/U φ 12.7 (1/2") ②φ 12.7(1/2")x0.8 Flare piping	20 (Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection ① \$\phi\$ 9.52(3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") ① \$\phi\$ 15.88(5/8")x1.0 O/U \$\phi\$ 15.88 (5/8") Flare piping
Deration control Safety equipments all at later to the safety equipments and the safety equipments all at later to the safety equipments all at later to the safety equipments	Remote control Room temperature control Operation display ents Refrigerant piping size (O.D) Connecting method		- mm	Overload protect Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 6.35 (1/4") ②φ 9.52(3/8")x0.8 I/U φ 12.7 (1/2") ②φ 12.7(1/2")x0.8 Flare piping	20 (Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection ① \$\phi\$ 9.52(3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") ① \$\phi\$ 15.88(5/8")x1.0 O/U \$\phi\$ 15.88 (5/8") Flare piping
Department of the control of the con	Remote control Room temperature control Operation display ents Refrigerant piping size (O.D) Connecting method Attached length of piping	Gas line	- mm	(Option) Wired: RC-EX3A, RC-E5, Thermostat I Overload protect Frost protect Internal thermos Abnormal discharge t I/U φ 6.35 (1/4") ②φ 9.52(3/8")x0.8 I/U φ 12.7 (1/2") ②φ 12.7(1/2")x0.8 Flare piping Necessary (both	20 (Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection ① \$\phi\$ 9.52(3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") ① \$\phi\$ 15.88(5/8")x1.0 O/U \$\phi\$ 15.88 (5/8") Flare piping
Department of the control of the con	Remote control Room temperature control Operation display ents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping	Gas line	- mm -	(Option) Wired: RC-EX3A, RC-E5, Thermostat I Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 6.35 (1/4") ②φ 9.52(3/8")x0.8 I/U φ 12.7 (1/2") ②φ 12.7(1/2")x0.8 Flare piping Necessary (both	20 (Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 O/U φ 15.88 (5/8") Flare piping — Liquid & Gas lines)
Department of the control of the con	Remote control Room temperature control Operation display ents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng	Gas line	- mm - m	(Option) Wired: RC-EX3A, RC-E5, Thermostat I Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 6.35 (1/4") ②φ 9.52(3/8")x0.8 I/U φ 12.7 (1/2") ②φ 12.7(1/2")x0.8 Flare piping Necessary (both	20 (Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 O/U φ 15.88 (5/8") Flare piping Liquid & Gas lines) x.50 / Max.15 (Outdoor unit is lower)
Deperation control Safety equipments Installation data	Remote control Room temperature control Operation display ents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a	Gas line	m m m	Coption) Wired: RC-EX3A, RC-E5, Thermostat I Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 6.35 (1/4") ②φ 9.52(3/8")x0.8 I/U φ 12.7 (1/2") ②φ 12.7(1/2")x0.8 Flare piping Necessary (both Ma Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32)	20 (Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection ① \$\phi\$ 9.52(3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") ① \$\phi\$ 15.88(5/8")x1.0 O/U \$\phi\$ 15.88 (5/8") Flare piping Liquid & Gas lines) x.50
Description control Safety equipments allation data Drain pump, m	Remote control Room temperature control Operation display ents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose ax lift height	Gas line	m m m mm	Coption) Wired: RC-EX3A, RC-E5, Thermostat I Overload protect Frost protect Internal thermos Abnormal discharge t I/U φ 6.35 (1/4") ②φ 9.52(3/8")x0.8 I/U φ 12.7 (1/2") ②φ 12.7(1/2")x0.8 Flare piping Necessary (both Ma Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump , 850	20 (Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection ① \$\phi\$ 9.52(3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") ① \$\phi\$ 15.88(5/8")x1.0 O/U \$\phi\$ 15.88 (5/8") Flare piping — Liquid & Gas lines) x.50 / Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3pcs
Electric heater Deperation control Safety equipment Installation data Drain pump, m Recommended	Remote control Room temperature control Operation display ents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose lax lift height d breaker size	Gas line	m m m A	(Option) Wired: RC-EX3A, RC-E5, Thermostat Is Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 6.35 (1/4") ②φ 9.52(3/8")x0.8 I/U φ 12.7 (1/2") ②φ 12.7(1/2")x0.8 Flare piping Necessary (both Ma Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump , 850	20 (Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection ① \$\phi\$ 9.52(3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") ① \$\phi\$ 15.88(5/8")x1.0 O/U \$\phi\$ 15.88 (5/8") Flare piping — Liquid & Gas lines) x.50 / Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3pcs
Electric heater Operation control Safety equipment Installation data Drain pump, m Recommended L.R.A. (Locked	Remote control Room temperature control Operation display ents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose lax lift height d breaker size I rotor ampere)	Gas line th	m m m mm	(Option) Wired: RC-EX3A, RC-E5, Thermostat I Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 6.35 (1/4") ②φ 9.52(3/8")x0.8 I/U φ 12.7 (1/2") ②φ 12.7 (1/2")x0.8 Flare piping Necessary (both Ma Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump , 850	20 (Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection ① \$\phi\$ 9.52(3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") ① \$\phi\$ 15.88(5/8")x1.0 O/U \$\phi\$ 15.88 (5/8") Flare piping — Liquid & Gas lines) x.50 / Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3pcs — 5.0
Department of the control of the con	Remote control Room temperature control Operation display ents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose lax lift height d breaker size I rotor ampere)	Gas line	m m m A	(Option) Wired: RC-EX3A, RC-E5, Thermostat I Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 6.35 (1/4") ②φ 9.52(3/8")x0.8 I/U φ 12.7 (1/2") ②φ 12.7(1/2")x0.8 Flare piping - Necessary (both Ma Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump , 850	20 (Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection (1) \$\phi\$ 9.52(3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") (1) \$\phi\$ 15.88(5/8")x1.0 O/U \$\phi\$ 15.88 (5/8") Flare piping — Liquid & Gas lines) x.50 / Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3pcs — 6.0 / Terminal block (Screw fixing type)
Department of the control of the con	Remote control Room temperature control Operation display ents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose lax lift height d breaker size I rotor ampere) g wires Size x C	Gas line th	m m m A	(Option) Wired: RC-EX3A, RC-E5, Thermostat It Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 6.35 (1/4") ②φ 9.52(3/8")x0.8 I/U φ 12.7 (1/2") ②φ 12.7(1/2")x0.8 Flare piping Necessary (both Ma Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump, 850 φ 1.6mmx 3 cores + earth cable IPX0	20 (Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection ① \$\phi\$ 9.52(3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") ① \$\phi\$ 15.88(5/8")x1.0 O/U \$\phi\$ 15.88 (5/8") Flare piping — Liquid & Gas lines) x.50 / Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3pcs — 6.0
Department of the control of the con	Remote control Room temperature control Operation display ents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose lax lift height d breaker size I rotor ampere) g wires Size x C	Gas line th	m m m A	(Option) Wired: RC-EX3A, RC-E5, Thermostat It Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 6.35 (1/4") ②φ 9.52(3/8")x0.8 I/U φ 12.7 (1/2") ②φ 12.7(1/2")x0.8 Flare piping - Necessary (both Ma Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump , 850 φ 1.6mmx 3 cores + earth cable of the protection of the protecti	20 (Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection (1) \$\phi\$ 9.52(3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") (1) \$\phi\$ 15.88(5/8")x1.0 O/U \$\phi\$ 15.88 (5/8") Flare piping — Liquid & Gas lines) x.50 / Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3pcs — 6.0 / Terminal block (Screw fixing type) IP24 —
Electric heater Operation control Safety equipment Installation data Drain pump, m Recommended	Remote control Room temperature control Operation display ents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose lax lift height d breaker size I rotor ampere) g wires Size x C	Gas line th	m m m A	(Option) Wired: RC-EX3A, RC-E5, Thermostat It Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 6.35 (1/4") ②φ 9.52(3/8")x0.8 I/U φ 12.7 (1/2") ②φ 12.7(1/2")x0.8 Flare piping - Necessary (both Ma Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump , 850 φ 1.6mmx 3 cores + earth cable of the protection of the protecti	20 (Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection ① \$\phi\$ 9.52(3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") ① \$\phi\$ 15.88(5/8")x1.0 O/U \$\phi\$ 15.88 (5/8") Flare piping — Liquid & Gas lines) x.50 / Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3pcs — 6.0 / Terminal block (Screw fixing type)

The pipe length is 7.5m.	
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Item	Indoor air t	emperature	Outdoor air	temperature	Chan dauda
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
 (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.
 (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U Branch, ②: Pipe of Branch I/U

Item			Model		/SAWTVH
				Indoor unit FDTC50VH (3 units)	Outdoor unit FDC140VSA-W
Power source		``	1347	3 Phase, 380 - 415\	
	Nominal cooling capacity (rang	· /	kW	13.6 [5.0(Min.	
	Nominal heating capacity (rang		kW	15.5 [4.0(Min.	
	Power consumption Cooling		-l ⊢	4.7	
		Heating	kW	4.6	
	Max power consumption	To 1:		10.	
	Running current	Cooling	┦ . ├	6.9 /	
		Heating	_ A _	6.7 /	
Operation	Inrush current, max current	T =		5,	
data	Power factor	Cooling	- % -	9	
		Heating		9	
	EER	Cooling	_	2.8	
	COP	Heating		3.0	
	Sound power level	Cooling		59	72
	Country power level	Heating			73
	Sound pressure level	Cooling	dB(A)	P-Hi: 44 Hi 40 Me: 35 Lo: 27	56
	Godina pressure level	Heating		1 111. 44 111 40 IVIC. 00 E0. 27	58
	Silent mode sound pressure le	vel		_	49 / 45 (Normal / Silent)
Exterior dimer	nsions (Height x Width x Depth)		mm	Unit 248 x 570 x 570 Panel 10 x 620 x 620	845x970x370
Exterior appea	arance			Fine snow	Stucco white
(Munsell color				(8.0Y9.3/0.1) near equivalent	(4.2Y7.5/1.1) near equivalent
(RAL color)				(RAL 9001) near equivalent	(RAL 7044) near equivalent
Net weight			kg	Unit 14 Panel 2.5	78
Compressor t	type & Q'ty			_	RMT5126SWP4 x 1
Compressor n	motor (Starting method)		kW	_	Direct line start
Refrigerant oil	I (Amount, type)		L	-	0.9 (M-MB75)
Refrigerant (T	Type, amount, pre-charge length)		kg	R32 3.3 in outdoor unit (Incl. the	amount for the piping of 30m)
Heat exchang	ger			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant co	ontrol			Electronic exp	pansion valve
Fan type & Q'	ty			Turbo fan x1	Propeller fan x 1
Fan motor (St	arting method)		W	50 < Direct line start >	86 (Direct line start)
Λ::. £l =		Cooling	3/	D. I.G. 10. I.G. 11. May 0. Lay 7	75
Air flow		Heating	m³/min	P-Hi: 13 Hi: 11 Me: 9 Lo: 7	73
Available exte	ernal static pressure	•	Pa	0 0	
Outside air int	take			Possible	_
Air filter, Quali	ity / Quantity			Pocket plastic net x1(Washable)	<u>—</u> ,
Shock & vibra	ation absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compresso
Electric heater	r		W	_	20 (Crank case heater)
	Remote control			(Option) Wired: RC-EX3A, RC-E5, F	RCH-E3 Wireless : RCN-TC-5AW-E2
Operation				Thermostat by electronics	
	Room temperature control			Thermostat b	y electronics
	Room temperature control Operation display			Thermostat b	y electronics -
control				Thermostat b Overload protect	-
control	Operation display			- Overload protect Frost protectic	ion for fan motor on thermostat
	Operation display			Overload protect Frost protectic Internal thermos	ion for fan motor on thermostat tat for fan motor
control	Operation display	I tanda te		Overload protect Frost protectic Internal thermos Abnormal discharge te	ion for fan motor on thermostat tat for fan motor emperature protection
control	Operation display	Liquid line	mm	Overload protect Frost protectic Internal thermos Abnormal discharge to	ion for fan motor on thermostat tat for fan motor emperature protection ① ϕ 9.52(3/8")x0.8 O/U ϕ 9.52 (3/8")
control	Operation display nents Refrigerant piping size (O.D)	Liquid line Gas line	mm	Overload protect Frost protectic Internal thermos Abnormal discharge te I/U \$\phi\$ 6.35 (1/4")	ion for fan motor on thermostat tat for fan motor emperature protection ① ϕ 9.52(3/8")x0.8 O/U ϕ 9.52 (3/8") ① ϕ 15.88(5/8")x1.0 O/U ϕ 15.88 (5/8")
control	Operation display nents Refrigerant piping size (O.D) Connecting method	_		Overload protect Frost protectic Internal thermos Abnormal discharge to	ion for fan motor on thermostat tat for fan motor emperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 O/U φ 15.88 (5/8") Flare piping
Safety equipm	Operation display ments Refrigerant piping size (O.D) Connecting method Attached length of piping	_	- mm -	Overload protect Frost protectic Internal thermos Abnormal discharge te I/U \$\phi\$ 6.35 (1/4") @ \$\phi\$ 9.52(3/8")x0.8 I/U \$\phi\$ 12.7 (1/2") @ \$\phi\$ 12.7(1/2")x0.8 Flare piping	ion for fan motor on thermostat tat for fan motor emperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ② φ 15.88(5/8")x1.0 O/U φ 15.88 (5/8") Flare piping —
Safety equipm	Operation display ments Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping	Gas line		Overload protect Frost protectic Internal thermos Abnormal discharge te I/U \$\phi\$ 6.35 (1/4")	ion for fan motor on thermostat tat for fan motor emperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ② φ 15.88(5/8")x1.0 O/U φ 15.88 (5/8") Flare piping —
Safety equipm	Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng	Gas line		Overload protect Frost protectic Internal thermos Abnormal discharge te I/U \$\phi\$ 6.35 (1/4") \$\@\phi\$ 9.52(3/8")x0.8 I/U \$\phi\$ 12.7 (1/2") \$\@\phi\$ 12.7(1/2")x0.8 (Flare piping	ion for fan motor on thermostat tat for fan motor emperature protection
Safety equipm	Operation display ments Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping	Gas line	m	Overload protect Frost protectic Internal thermos Abnormal discharge te I/U \$\phi\$ 6.35 (1/4") @ \$\phi\$ 9.52(3/8")x0.8 I/U \$\phi\$ 12.7 (1/2") @ \$\phi\$ 12.7(1/2")x0.8 Flare piping - Necessary (both L	ion for fan motor on thermostat tat for fan motor emperature protection
Safety equipm	Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng	Gas line	m m	Overload protect Frost protectic Internal thermos Abnormal discharge te I/U \$\phi\$ 6.35 (1/4") \$\@\phi\$ 9.52(3/8")x0.8 I/U \$\phi\$ 12.7 (1/2") \$\@\phi\$ 12.7(1/2")x0.8 (Flare piping	ion for fan motor on thermostat tat for fan motor emperature protection
Safety equipm nstallation data	Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a	Gas line	m m	Overload protect Frost protectic Internal thermos Abnormal discharge te I/U \$\phi\$ 6.35 (1/4") \$\@\phi\$ 9.52(3/8")x0.8 I/U \$\phi\$ 12.7 (1/2") \$\@\phi\$ 12.7(1/2")x0.8 (Flare piping	ion for fan motor on thermostat tat for fan motor emperature protection Φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") Φ 15.88(5/8")x1.0 O/U φ 15.88 (5/8") Flare piping — iquid & Gas lines) κ.50 / Max.15 (Outdoor unit is lower)
Safety equipm Installation data	Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose	Gas line	m m m	Overload protect Frost protectic Internal thermos Abnormal discharge te I/U \$\phi\$ 6.35 (1/4") \$\@\phi\$ 9.52(3/8")x0.8 I/U \$\phi\$ 12.7 (1/2") \$\@\phi\$ 12.7(1/2")x0.8 (Flare piping	ion for fan motor on thermostat tat for fan motor emperature protection Φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") Φ 15.88(5/8")x1.0 O/U φ 15.88 (5/8") Flare piping — iquid & Gas lines) k.50 / Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs —
Safety equipm Installation data Drain pump, recommende	Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose max lift height	Gas line	m m m m	Overload protect Frost protectic Internal thermos Abnormal discharge te I/U \$\phi\$ 6.35 (1/4") \$\@\phi\$ 9.52(3/8")x0.8 I/U \$\phi\$ 12.7 (1/2") \$\@\phi\$ 12.7(1/2")x0.8 (Flare piping	ion for fan motor on thermostat tat for fan motor emperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 O/U φ 15.88 (5/8") Flare piping — iquid & Gas lines) c.50 / Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs —
Safety equipments of the control of	Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose max lift height ad breaker size d rotor ampere)	Gas line	m m m A	Overload protect Frost protectic Internal thermos Abnormal discharge te I/U \$\phi\$ 6.35 (1/4") \$\@\phi\$ 9.52(3/8")x0.8 I/U \$\phi\$ 12.7 (1/2") \$\@\phi\$ 12.7(1/2")x0.8 (Flare piping Necessary (both L Max Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump , 850	ion for fan motor on thermostat tat for fan motor emperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 O/U φ 15.88 (5/8") Flare piping — iquid & Gas lines) c.50 / Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs —
Safety equipm Installation data Drain pump, r Recommende L.R.A. (Locket Interconnectir	Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose max lift height ad breaker size d rotor ampere)	Gas line th	m m m A	Overload protect Frost protectic Internal thermos Abnormal discharge te I/U \$\phi\$ 6.35 (1/4") \$\@\phi\$ 9.52(3/8")x0.8 I/U \$\phi\$ 12.7 (1/2") \$\@\phi\$ 12.7(1/2")x0.8 (Flare piping Necessary (both L Max Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump , 850	ion for fan motor on thermostat tat for fan motor emperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 O/U φ 15.88 (5/8") Flare piping — iquid & Gas lines) c.50 / Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs — 0
Safety equipm Installation data Drain pump, response	Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose max lift height ad breaker size d rotor ampere) ng wires Size x C	Gas line th	m m m A	Overload protect Frost protectic Internal thermos Abnormal discharge te I/U \$\phi\$ 6.35 (1/4") \$\hat{2}\phi\$ 9.52(3/8")x0.8 I/U \$\phi\$ 12.7 (1/2") \$\hat{2}\phi\$ 9.12.7(1/2")x0.8 (Flare piping Necessary (both L Max Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump , 850 \$\phi\$ 1.6mmx 3 cores + earth cable /	ion for fan motor on thermostat tat for fan motor emperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ② φ 15.88(5/8")x1.0 O/U φ 15.88 (5/8") Flare piping — Liquid & Gas lines) x.50 / Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs — 0 Terminal block (Screw fixing type)

Item	Indoor air temperature		Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19℃	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
 (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.
 (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U Branch, ②: Pipe of Branch I/U

(3) Duct connected-High static pressure type (FDU) Single type

				Model	FDU100	VNAWVH	
Item					Indoor unit FDU100VH	Outdoor unit FDC100VNA-W	
Power source					1 Phase, 220 - 240	V 50Hz / 220V 60Hz	
	Nominal cooling capac	city (range)		kW	10.0 [4.0(Mir	n.) - 11.2(Max.)]	
	Nominal heating capacity (range)		kW	11.2 [4.0(Mir	n.) - 12.5(Max.)]		
	D		Cooling		2	.99	
	Power consumption Heating		d k₩	2	.66		
	Max power consumption	on		-	6	.40	
		1	Cooling	1		/ 14.9	
	Running current	ŀ	Heating	T A		/ 13.3	
	Inrush current, max cur	rront	rieating	⊣ ^ ⊦		26	
Operation	illiusii cultetti, illax cul	T	Cooling	+ +		91	
data	Power factor	-	Cooling	- %		91	
	FED		Heating	+ +			
	EER		Cooling	-		.35	
	COP		Heating		4	.21	
	Sound power level	Ļ	Cooling	_	65	69	
	Country portroi tovo.		Heating	_		70	
	Sound pressure level		Cooling	dB(A)	P-Hi: 44 Hi: 38 Me: 36 Lo: 30	54	
	Souria pressure level		Heating		F-HI. 44 HI. 36 Me. 30 LO. 30	55	
	Silent mode sound pre	ssure leve		7 [_	48 / 44(Normal/Silent)	
Exterior dimen	sions (Height x Width x I	Depth)		mm	280 × 1,370 × 740	845 × 970 × 370	
Exterior appea	rance					Stucco white	
(Munsell color)				_	(4.2Y7.5/1.1) near equivalent	
(RAL color)	,					(RAL 7044) near equivalent	
Net weight				kg	54	77	
Compressor ty	/pe & Q'tv			1 1	_	RMT5126SWP3 (Twin rotary type)×1	
	notor (Starting method)			kW	_	Direct line start	
<u> </u>	(Amount, type)			L	_	0.9 (M-MB75)	
	ype, amount, pre-charge	lonath)				ne amount for the piping of 30m)	
_ ,		lengin)		kg			
Heat exchange				+ +	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing	
Refrigerant co				1		pansion valve	
Fan type & Q't	·				Centrifugal fan ×3	Propeller fan ×1	
Fan motor (Sta	arting method)			W	100 + 130 < Direct line start >	86 < Direct line start >	
Air flow			Cooling	m³/min	P-Hi: 36 Hi: 28 Me: 25 Lo: 19	75	
7 til 110 W			Heating	1117111111	1 111. 00 111. 20 100. 20 20. 10	73	
Available exter	rnal static pressure			Pa	Standard: 60 Max: 200	0	
Outside air inta	ake				Possible	_	
Air filter, Qualit	y / Quantity				Procure locally	_	
Shock & vibrat	tion absorber				Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compresso	
Electric heater				W		20 (Crank case heater)	
	Remote control				(Option) Wired: BC-EX3A.RC-E	5,RCH-E3 Wireless : RCN-KIT4-E2	
Operation	Room temperature cor	ntrol		+ +		by electronics	
control	Operation display	101		+ +	momodat	_	
	Operation display			+ +	Overload protect	tion for fan motor	
						ion thermostat	
Safety equipm	ents	In			Internal thermostat for fan motor		
					Abnormal discharge	temperature protection	
	Definement winter :	(O D)	Liquid line		I/U φ 9.52 (3/8") Pipe φ 9.5	52(3/8")x0.8 Ο/U φ 9.52 (3/8")	
	Refrigerant piping size	(U.D)	Gas line	mm }		(5/8")x1.0 φ 15.88 (5/8")	
	Connecting method				Flare piping	Flare piping	
Installation	Attached length of pipi	ina		m			
Installation data		ıı ıy		'''		Limited 9 Conditions 1	
aata	Insulation for piping	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				Liquid & Gas lines)	
	Refrigerant line (one w			m		ax.50	
	Vertical height diff. betwe	en O/U and	1 I/U	m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)	
	Drain hose				Hose connectable VP25 (I.D.25, O.D.32)	Hole size φ 20 x 3pcs	
Drain pump, m	nax lift height			mm	Built-in drain pump , 600	_	
Recommende	d breaker size			Α		_	
L.R.A. (Locked	rotor ampere)			Α	Ę	5.0	
Interconnectin	''''	Size x Core	e number	1	φ 1.6mmx 3 cores + earth cable	/ Terminal block (Screw fixing type)	
IP number			-		IPX0	IP24	
ir number				1			
	essories				Mounting kit Drain hose	_	
Standard acce	essories				Mounting kit, Drain hose	nsor : LB-KIT	

Item	Indoor air t	temperature Outdoor air temperature		External static pressure	Standards	
Operation	DB	WB	DB	WB	of indoor unit	Staridards
Cooling	27°C	19°C	35°C	24°C	60Pa	ISO5151-T1
Heating	20°C	_	7℃	6°C	oura	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) When wireless remote control is used, fan is 3 speed setting (Hi-Me-Lo) only.
 (6) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
- (7) The factory E.S.P. setting is set within the range of 80 150 Pa.If SW8-4 is turned to "ON", E.S.P. setting range can be changed to 10 200 Pa.(For RC-EX3A and RC-E5 only)

			Model	FDU100'	VSAWVH	
Item			Wiodoi	Indoor unit FDU100VH	Outdoor unit FDC100VSA-W	
Power source				3 Phase, 380 - 415	V 50Hz / 380V 60Hz	
	Nominal cooling capacity (ran	ge)	kW	10.0 [4.0(Min	.) - 11.2(Max.)]	
	Nominal heating capacity (ran	ge)	kW	11.2 [4.0(Min	.) - 12.5(Max.)]	
	Dawer as as as a second second	Cooling		2.	99	
	Power consumption	Heating	kW	2.	66	
	Max power consumption		1 1	10	.20	
		Cooling		4.6	/ 4.9	
	Running current Heating		T A	4.1	/ 4.3	
	Inrush current, max current	<u> </u>	1	5.	17	
Operation	,	Cooling			93	
data	Power factor	Heating	- % -		93	
	EER	Cooling			35	
	COP	Heating	1		21	
	001	Cooling			69	
	Sound power level	Heating	-	65	70	
					54	
	Sound pressure level	Cooling	dB(A)	P-Hi: 44 Hi: 38 Me: 36 Lo: 30	55	
	Oileant and a count of many of	Heating	-			
F	Silent mode sound pressure le	evel		-	48 / 44(Normal/Silent)	
	nsions (Height x Width x Depth)		mm	280 × 1,370 × 740	845 × 970 × 370	
(Munsell color	Exterior appearance (Munsell color)			_	Stucco white (4.2Y7.5/1.1) near equivalent	
(RAL color)			1		(RAL 7044) near equivalent	
Net weight			kg	54	78	
. ,	Compressor type & Q'ty				RMT5126SWP4 (Twin rotary type)×1	
<u> </u>	Compressor motor (Starting method)		kW		Direct line start	
-	(Amount, type)		L		0.9 (M-MB75)	
	ype, amount, pre-charge length)		kg	,	e amount for the piping of 30m)	
Heat exchanger			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing		
Refrigerant co	ntrol			Electronic ex	pansion valve	
Fan type & Q't	ty			Centrifugal fan ×3	Propeller fan ×1	
Fan motor (Sta	arting method)		W	100 + 130 < Direct line start >	86 < Direct line start >	
Air flow		Cooling Heating	m³/min	P-Hi: 36 Hi: 28 Me: 25 Lo: 19	75 73	
Available exter	rnal static pressure	<u> </u>	Pa	Standard: 60 Max: 200	0	
Outside air inta	·		1	Possible	_	
Air filter, Qualit				Procure locally	_	
Shock & vibrat			+ +	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor	
Electric heater			W		20 (Crank case heater)	
Licotile fieddol	Remote control		+ ''	(Ontion) Wired : BC-EX3A BC-E5	5,RCH-E3 Wireless : RCN-KIT4-E2	
Operation	Room temperature control				by electronics	
control	Operation display			THOMBOULE I	_	
Safety equipm				Frost protecti Internal thermos	tion for fan motor on thermostat stat for fan motor temperature protection	
	Refrigerant piping size (O.D)	Liquid line Gas line	mm		2(3/8")x0.8 O/U φ 9.52 (3/8") (5/8")x1.0 φ 15.88 (5/8")	
	Connecting method	1 0000	+ +	Flare piping	Flare piping	
	Connecting method		+ +			
Inotalletic	Attached length of piping		m			
Installation			m			
Installation data	Insulation for piping			Necessary (both	Liquid & Gas lines)	
	Insulation for piping Refrigerant line (one way) length		m	Necessary (both	Liquid & Gas lines) x.50	
	Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U			Necessary (both Ma Max.50 (Outdoor unit is higher)	Liquid & Gas lines) x.50 Max.15 (Outdoor unit is lower)	
data	Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U Drain hose		m m	Necessary (both Ma Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32)	Liquid & Gas lines) x.50	
data Drain pump, m	Insulation for piping Refrigerant line (one way) len Vertical height diff. between O/U Drain hose nax lift height		m m	Necessary (both Ma Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump , 600	Liquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs —	
Drain pump, m	Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U Drain hose nax lift height d breaker size		m m	Necessary (both Ma Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump , 600	Liquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size ϕ 20 x 3pcs —	
Drain pump, m Recommender L.R.A. (Locked	Insulation for piping Refrigerant line (one way) len Vertical height diff. between O/U Drain hose nax lift height d breaker size d rotor ampere)	and I/U	m m	Necessary (both Ma Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump , 600	icliquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size ϕ 20 x 3pcs	
Drain pump, m	Insulation for piping Refrigerant line (one way) len Vertical height diff. between O/U Drain hose nax lift height d breaker size d rotor ampere)		m m	Necessary (both Ma Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump , 600	Liquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size ϕ 20 x 3pcs —	
Drain pump, m Recommender L.R.A. (Locked	Insulation for piping Refrigerant line (one way) len Vertical height diff. between O/U Drain hose nax lift height d breaker size d rotor ampere)	and I/U	m m	Necessary (both Ma Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump , 600	icliquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size ϕ 20 x 3pcs	
Drain pump, m Recommended L.R.A. (Locked Interconnection	Insulation for piping Refrigerant line (one way) len Vertical height diff. between O/U Drain hose nax lift height d breaker size d rotor ampere) g wires Size x C	and I/U	m m	Necessary (both Ma Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump , 600 5 \$\phi\$ 1.6mmx 3 cores + earth cable \$\phi\$	Liquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size ϕ 20 x 3pcs - - 6.0 / Terminal block (Screw fixing type)	

Item	Indoor air temperature		Outdoor air	temperature	External static pressure	Standards
Operation	DB	WB	DB	WB	of indoor unit	Standards
Cooling	27°C	19°C	35°C	24°C	60Pa	ISO5151-T1
Heating	20°C		7°C 6°C		oura	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) When wireless remote control is used, fan is 3 speed setting (Hi-Me-Lo) only.
 (6) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
 (7) The factory E.S.P. setting is set within the range of 80 150 Pa.If SW8-4 is turned to "ON", E.S.P. setting range can be changed to 10 200 Pa.(For RC-EX3A and RC-E5 only)

			Model	FDU125	VNAWVH
Item				Indoor unit FDU125VH	Outdoor unit FDC125VNA-W
Power source				1 Phase, 220 - 240	V 50Hz / 220V 60Hz
	Nominal cooling capacity (range	e)	kW	12.5 [5.0(Min	.) - 14.0(Max.)]
	Nominal heating capacity (range	e)	kW	14.0 [4.0(Min	.) - 16.0(Max.)]
		Cooling		4.	36
	Power consumption	Heating	kW	3.	69
	Max power consumption	<u> </u>	7 1		40
		Cooling			/ 21.3
	Running current Heating		A		/ 18.6
	Inrush current, max current	Treating	⊣ ^ ∣		26
Operation	midsir current, max current	Cooling			3
data	Power factor		- %		0
	FFD	Heating	+	-	
	EER COP	Cooling	-		87
	СОР	Heating		3.	79 I
	Sound power level	Cooling	_	67	71
		Heating	J		
	Sound pressure level	Cooling	dB(A)	P-Hi: 45 Hi: 40 Me: 34 Lo: 29	54
	·	Heating	_	10 10 20. 20	56
	Silent mode sound pressure lev	el		_	48 / 45 (Normal/Silent)
Exterior dimer	sions (Height x Width x Depth)		mm	280 × 1,370 × 740	845 × 970 × 370
(Munsell color				_	Stucco white (4.2Y7.5/1.1) near equivalent (RAL 7044) near equivalent
(RAL color)			l/a	54	(NAL 7044) Near equivalent
Net weight	un n Q Older		kg	· · · · · · · · · · · · · · · · · · ·	1.1
<u> </u>	Compressor type & Q'ty		1104	_	RMT5126SWP3 (Twin rotary type)×1
Compressor motor (Starting method)			kW	_	Direct line start
	(Amount, type)		L	_	0.9 (M-MB75)
Refrigerant (Type, amount, pre-charge length)			kg		e amount for the piping of 30m)
Heat exchanger				Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant control				Electronic ex	pansion valve
Fan type & Q'	ry .			Centrifugal fan ×3	Propeller fan ×1
Fan motor (Sta	arting method)		W	100 + 200 < Direct line start >	86 < Direct line start >
Air flow		Cooling Heating	m³/min	P-Hi: 39 Hi: 32 Me: 26 Lo: 20	75 73
Available exte	rnal static pressure		Pa	Standard: 60 Max: 200	0
Outside air int	ake			Possible	_
Air filter, Quali	v / Quantity			Procure locally	_
Shock & vibra		-		Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor
Electric heater			W	_	20 (Crank case heater)
Licoti io Ticatoi	Remote control		+ "	(Ontion) Wired : BC-FX3A BC-F5	F,RCH-E3 Wireless : RCN-KIT4-E2
Operation	Room temperature control		+		by electronics
control	Operation display		+	momostati	
Safety equipm	, , , , , , , , , , , , , , , , , , , ,			Frost protecti Internal thermos	tion for fan motor on thermostat stat for fan motor emperature protection
	Refrigerant piping size (O.D)	Liquid line Gas line	mm		2(3/8")x0.8 O/U φ 9.52 (3/8") '5/8")x1.0 φ 15.88 (5/8")
	Connecting method			Flare piping	Flare piping
Inotalletic	Attached length of piping		m	–	a b.ba
Installation data			m		Limited 9. Con lines)
aata	Insulation for piping				Liquid & Gas lines)
	Refrigerant line (one way) lengt		m		x.50
	Vertical height diff. between O/U ar	ıa ı/U	m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)
	Drain hose			Hose connectable VP25 (I.D.25, O.D.32)	Hole size φ 20 x 3pcs
Drain pump, n			mm	Built-in drain pump , 600	_
Recommende	d breaker size		Α	-	-
L.R.A. (Locked	l rotor ampere)		А	5	.0
Interconnectin	g wires Size x Co	re number		φ 1.6mmx 3 cores + earth cable /	Terminal block (Screw fixing type)
IP number	•			IPX0	IP24
Standard acce	essories			Mounting kit, Drain hose	_
Option parts				-	sor : LB-KIT
	e data are measured at the follow	ving conditions			The nine length is 7.5m

Item	Indoor air temperature		Outdoor air	temperature	External static pressure	Standards
Operation	DB	WB	DB	WB	of indoor unit	Standards
Cooling	27°C	19°C	35°C	24°C	60Pa	ISO5151-T1
Heating	20°C		7°C 6°C		oura	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) When wireless remote control is used, fan is 3 speed setting (Hi-Me-Lo) only.
 (6) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
- (7) The factory E.S.P. setting is set within the range of 80 150 Pa.If SW8-4 is turned to "ON", E.S.P. setting range can be changed to 10 200 Pa.(For RC-EX3A and RC-E5 only)

			Model	FDU125	VSAWVH
Item			Wiodoi	Indoor unit FDU125VH	Outdoor unit FDC125VSA-W
Power source				3 Phase, 380 - 415	V 50Hz / 380V 60Hz
	Nominal cooling capacity (ran	ge)	kW	12.5 [5.0(Min	.) - 14.0(Max.)]
	Nominal heating capacity (ran	ge)	kW	14.0 [4.0(Min	.) - 16.0(Max.)]
	Davier as as instantian	Cooling		4.	36
	Power consumption	Heating	kW	3.	69
	Max power consumption		1 1	10	.20
		Cooling		6.8	7.2
	Running current Heating		T A	5.9	/ 6.2
	Inrush current, max current		1	5.	17
Operation		Cooling			02
data	Power factor	Heating	- % -		00
	EER	Cooling			87
	COP	Heating	1		79
	001	Cooling	+ +	0.	73
	Sound power level		-	67	71
		Heating	- 10(4)		5.4
	Sound pressure level	Cooling	_ dB(A)	P-Hi: 45 Hi: 40 Me: 34 Lo: 29	54
		Heating	-		56
	Silent mode sound pressure le	evel	1	_	48 / 45 (Normal/Silent)
	sions (Height x Width x Depth)		mm	280 × 1,370 × 740	845 × 970 × 370
Exterior appea					Stucco white
(Munsell color)			_	(4.2Y7.5/1.1) near equivalent
(RAL color)					(RAL 7044) near equivalent
Net weight			kg	54	78
. ,	Compressor type & Q'ty				RMT5126SWP4 (Twin rotary type)×1
<u> </u>	Compressor motor (Starting method)		kW		Direct line start
Refrigerant oil	(Amount, type)		L	_	0.9 (M-MB75)
Refrigerant (Ty	ype, amount, pre-charge length))	kg	R32 3.3 in outdoor unit (Incl. th	e amount for the piping of 30m)
Heat exchanger			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing	
Refrigerant cor	ntrol			Electronic ex	pansion valve
Fan type & Q't	ry			Centrifugal fan ×3	Propeller fan ×1
Fan motor (Sta	arting method)		W	100 + 200 < Direct line start >	86 < Direct line start >
A: 0		Cooling	34 .	D. I	75
Air flow		Heating	m³/min	P-Hi: 39 Hi: 32 Me: 26 Lo: 20	73
Available exter	rnal static pressure		Pa	Standard: 60 Max: 200	0
Outside air inta	· · · · · · · · · · · · · · · · · · ·		1	Possible	_
Air filter, Qualit				Procure locally	_
Shock & vibrat	<u> </u>		+ +	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor
Electric heater			W	_	20 (Crank case heater)
Licetile fleater	Remote control		**	(Ontion) Wired : BC-EX3A BC-E5	5,RCH-E3 Wireless : RCN-KIT4-E2
Operation	Room temperature control		+ +		by electronics
control	Operation display		+ +	memostat t	by electronics
	Operation display		+ +	O	Lian fau fan mastau
				Overload protection for fan motor	
Safety equipm	ents			Frost protecti	on thermostat stat for fan motor
Safety equipm	ents			Frost protecti Internal thermos	on thermostat
Safety equipm	I	Liquid line	mm	Frost protecti Internal thermos Abnormal discharge t	on thermostat stat for fan motor
Safety equipm	Refrigerant piping size (O.D)	Liquid line Gas line	_ mm -	Frost protecti Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5	on thermostat stat for fan motor emperature protection
Safety equipm	I		_ mm -	Frost protecti Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5	on thermostat stat for fan motor emperature protection 2(3/8")x0.8 O/U φ 9.52 (3/8")
	Refrigerant piping size (O.D) Connecting method			Frost protecti Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") φ 15.88	on thermostat stat for fan motor emperature protection 2(3/8")x0.8 O/U ϕ 9.52 (3/8") 5/8")x1.0 ϕ 15.88 (5/8")
Safety equipm	Refrigerant piping size (O.D) Connecting method Attached length of piping		m m	Frost protecti Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") φ 15.88 Flare piping	on thermostat stat for fan motor emperature protection 2(3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") (5/8")x1.0 \$\phi\$ 15.88 (5/8") Flare piping —
Installation	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping	Gas line	m	Frost protection of the prote	on thermostat stat for fan motor emperature protection 2(3/8")x0.8 O/U ϕ 9.52 (3/8") (5/8")x1.0 ϕ 15.88 (5/8") Flare piping Liquid & Gas lines)
Installation	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) len	Gas line gth	m m	Frost protecti Internal thermos Abnormal discharge to I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") φ 15.88 Flare piping - Necessary (both	on thermostat stat for fan motor emperature protection 2(3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") (5/8")x1.0 \$\phi\$ 15.88 (5/8") Flare piping — Liquid & Gas lines) x.50
Installation	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) len Vertical height diff. between O/U	Gas line gth	m	Frost protecti Internal thermos Abnormal discharge to I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") φ 15.88 Flare piping - Necessary (both Ma Max.50 (Outdoor unit is higher)	on thermostat stat for fan motor emperature protection 2(3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") (5/8")x1.0 \$\phi\$ 15.88 (5/8") Flare piping — Liquid & Gas lines) x.50 Max.15 (Outdoor unit is lower)
Installation data	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) len Vertical height diff. between O/U Drain hose	Gas line gth	m m m	Frost protectinternal thermose Abnormal discharge to the protection of the protecti	on thermostat stat for fan motor emperature protection 2(3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") (5/8")x1.0 \$\phi\$ 15.88 (5/8") Flare piping Liquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3pcs
Installation data Drain pump, m	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) len Vertical height diff. between O/U Drain hose nax lift height	Gas line gth	m m m	Frost protecti Internal thermos Abnormal discharge to I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") φ 15.88 Flare piping - Necessary (both Ma Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump , 600	on thermostat stat for fan motor emperature protection 2(3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") (5/8")x1.0 \$\phi\$ 15.88 (5/8") Flare piping Liquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3pcs
Installation data Drain pump, m Recommended	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) len Vertical height diff. between O/U Drain hose nax lift height d breaker size	Gas line gth	m m m A	Frost protecti Internal thermos Abnormal discharge t I/U \(\phi \) 9.52 (3/8") Pipe \(\phi \) 9.58 \(\phi \) 15.88 (5/8") \(\phi \) 15.88 Flare piping	on thermostat stat for fan motor remperature protection 2(3/8")x0.8 O/U \(\phi \) 9.52 (3/8") (5/8")x1.0 \(\phi \) 15.88 (5/8") ————————————————————————————————————
Installation data Drain pump, m Recommended L.R.A. (Locked	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) len Vertical height diff. between O/U Drain hose nax lift height d breaker size	Gas line gth and I/U	m m m	Frost protecti Internal thermos Abnormal discharge t I/U \$\phi\$ 9.52 (3/8") Pipe \$\phi\$ 9.5 \$\phi\$ 15.88 (5/8") \$\phi\$ 15.88 Flare piping	on thermostat stat for fan motor remperature protection 2(3/8")x0.8 O/U \(\phi \) 9.52 (3/8") Flare piping — Liquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size \(\phi \) 20 x 3pcs — 6.0
Drain pump, m Recommended L.R.A. (Locked Interconnecting	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) len Vertical height diff. between O/U Drain hose nax lift height d breaker size	Gas line gth	m m m A	Frost protecti Internal thermos Abnormal discharge t I/U \$\phi\$ 9.52 (3/8") Pipe \$\phi\$ 9.5 \$\phi\$ 15.88 (5/8") \$\phi\$ 15.88 Flare piping	on thermostat stat for fan motor remperature protection 2(3/8")x0.8 O/U \(\phi \) 9.52 (3/8") 5/8")x1.0 \(\phi \) 15.88 (5/8") Flare piping — Liquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size \(\phi \) 20 x 3pcs — 6.0 / Terminal block (Screw fixing type)
Drain pump, m Recommended L.R.A. (Locked Interconnecting	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) len Vertical height diff. between O/U Drain hose hax lift height d breaker size I rotor ampere) g wires Size x C	Gas line gth and I/U	m m m A	Frost protecti Internal thermos Abnormal discharge t I/U \$\phi\$ 9.52 (3/8") Pipe \$\phi\$ 9.5 \$\phi\$ 15.88 (5/8") \$\phi\$ 15.88 Flare piping	on thermostat stat for fan motor remperature protection 2(3/8")x0.8 O/U \(\phi \) 9.52 (3/8") (5/8")x1.0 \(\phi \) 15.88 (5/8") Flare piping — Liquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size \(\phi \) 20 x 3pcs —
Drain pump, m Recommended L.R.A. (Locked Interconnecting	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) len Vertical height diff. between O/U Drain hose hax lift height d breaker size I rotor ampere) g wires Size x C	Gas line gth and I/U	m m m A	Frost protecti Internal thermos Abnormal discharge t I/U \$\phi\$ 9.52 (3/8") Pipe \$\phi\$ 9.5 \$\phi\$ 15.88 (5/8") \$\phi\$ 15.88 Flare piping	on thermostat stat for fan motor temperature protection 2(3/8")x0.8 O/U \(\phi \) 9.52 (3/8") 5/8")x1.0 \(\phi \) 15.88 (5/8") Flare piping — Liquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size \(\phi \) 20 x 3pcs — 6.0 / Terminal block (Screw fixing type)

The pipe length is 7.5m.

Item	Indoor air temperature		Outdoor air	temperature	External static pressure	Standards
Operation	DB	WB	DB	WB	of indoor unit	Standards
Cooling	27°C	19°C	35°C	24°C	60Pa	ISO5151-T1
Heating	20°C	_	7°C	6°C	OUFa	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) When wireless remote control is used, fan is 3 speed setting (Hi-Me-Lo) only.
 (6) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
- (7) The factory E.S.P. setting is set within the range of 80 150 Pa.If SW8-4 is turned to "ON", E.S.P. setting range can be changed to 10 200 Pa.(For RC-EX3A and RC-E5 only)

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			Model	FDU1401	VNAWVH
Item			Woder	Indoor unit FDU140VH	Outdoor unit FDC140VNA-W
Power source				1 Phase, 220 - 240	V 50Hz / 220V 60Hz
	Nominal cooling capacity (ran	ge)	kW	13.6 [5.0(Min	.) - 14.5(Max.)]
	Nominal heating capacity (ran	ge)	kW	15.5 [4.0(Min	.) - 16.5(Max.)]
	Power consumption	Cooling		5.	13
	Heating		kW	4.	21
	Max power consumption	•	7	6.	40
		Cooling		23.7	/ 24.8
	Running current Heating		A	20.3	/ 21.3
	Inrush current, max current		1	5,	27
Operation		Cooling	0,1	9	94
data	Power factor	Heating	- %	9	00
	EER	Cooling		2.	65
	COP	Heating	1	3.	68
		Cooling			72
	Sound power level	Heating	1	70	73
		Cooling	dB(A)		56
	Sound pressure level	Heating	∃ ``′	P-Hi: 47 Hi: 40 Me: 35 Lo: 30	58
	Silent mode sound pressure le		1		49 / 45 (Normal/Silent)
Exterior dimen	nsions (Height x Width x Depth)		mm	280 × 1,370 × 740	845 × 970 × 370
Exterior appea			1		Stucco white
(Munsell color (RAL color)	Munsell color)			-	(4.2Y7.5/1.1) near equivalent (RAL 7044) near equivalent
Net weight			ka	54	77
Compressor ty	uno 8 O'tu		kg		RMT5126SWP3 (Twin rotary type)×1
	Compressor motor (Starting method)		kW		Direct line start
	(Amount, type)		L		0.9 (M-MB75)
					, ,
Refrigerant (Type, amount, pre-charge length)		kg		e amount for the piping of 30m) M shape fin & inner grooved tubing	
Heat exchanger			Louver fin & inner grooved tubing	1 0	
Refrigerant co					pansion valve
Fan type & Q't	<u> </u>		14/	Centrifugal fan ×3	Propeller fan ×1
Fan motor (Sta	arting method)	10 11	W	100 + 200 < Direct line start >	86 < Direct line start >
Air flow		Cooling Heating	m³/min	P-Hi: 48 Hi: 35 Me: 28 Lo: 22	75 73
Available exter	rnal static pressure		Pa	Standard: 60 Max: 200	0
Outside air inta	· · · · · · · · · · · · · · · · · · ·		1 1	Possible –	
Air filter, Qualit				Procure locally	_
Shock & vibrat				Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor
Electric heater			W	_	20 (Crank case heater)
	Remote control			(Option) Wired: RC-EX3A.RC-E5	5,RCH-E3 Wireless : RCN-KIT4-E2
Operation	Room temperature control				by electronics
control	Operation display			-	=
Safety equipm				Frost protecti Internal thermos	tion for fan motor on thermostat stat for fan motor emperature protection
	Refrigerant piping size (O.D)	Liquid line Gas line	mm		2(3/8")x0.8 O/U φ 9.52 (3/8") (5/8")x1.0 φ 15.88 (5/8")
	Connecting method	Gas III le	+ +	φ 13.66 (3/6) φ 13.66(Flare piping
L4-0 0				- гіаге ріріпу —	
Installation data	Attached length of piping		m		
uaia	Insulation for piping				Liquid & Gas lines)
	Refrigerant line (one way) leng		m		x.50
	Vertical height diff. between O/U and I/U		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)
				Hose connectable VP25 (I.D.25, O.D.32)	Hole size φ 20 x 3pcs
	Drain hose				
Drain pump, m	Drain hose		mm	Built-in drain pump , 600	_
Recommende	Drain hose nax lift height d breaker size		А	Built-in drain pump , 600	-
Recommended L.R.A. (Locked	Drain hose nax lift height d breaker size d rotor ampere)			Built-in drain pump , 600	
Recommended L.R.A. (Locked Interconnecting	Drain hose nax lift height d breaker size d rotor ampere)	ore number	А	Built-in drain pump , 600 - 5 φ 1.6mmx 3 cores + earth cable	
Recommended L.R.A. (Locked Interconnecting IP number	Drain hose nax lift height d breaker size d rotor ampere) ng wires Size x C	ore number	А	Built-in drain pump , 600 5 φ 1.6mmx 3 cores + earth cable of IPX0	
Recommended L.R.A. (Locked Interconnecting	Drain hose nax lift height d breaker size d rotor ampere) ng wires Size x C	ore number	А	Built-in drain pump , 600 5 φ 1.6mmx 3 cores + earth cable / IPX0 Mounting kit, Drain hose	

Item	Indoor air temperature		Outdoor air	temperature	External static pressure	Standards
Operation	DB	WB	DB	WB	of indoor unit	Staridards
Cooling	27°C	19°C	35°C	24°C	60Pa	ISO5151-T1
Heating	20°C	_	7℃	6°C	oura	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) When wireless remote control is used, fan is 3 speed setting (Hi-Me-Lo) only.
 (6) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
- (7) The factory E.S.P. setting is set within the range of 80 150 Pa.If SW8-4 is turned to "ON", E.S.P. setting range can be changed to 10 200 Pa.(For RC-EX3A and RC-E5 only)

			Model	FDU140	VSAWVH
Item				Indoor unit FDU140VH	Outdoor unit FDC140VSA-W
Power source				3 Phase, 380 - 415	V 50Hz / 380V 60Hz
	Nominal cooling capacity (rang	je)	kW	13.6 [5.0(Min	.) - 14.5(Max.)]
	Nominal heating capacity (rang	je)	kW	15.5 [4.0(Min	.) - 16.5(Max.)]
	Dower consumption	Cooling		5.	13
	Power consumption	Heating	kW	4.	21
	Max power consumption		7 i	10	.20
		Cooling		8.1	/ 8.6
	Running current Heating		Α	6.8	/7.2
	Inrush current, max current			5,	18
Operation		Cooling	0.4	Ş	91
data	Power factor	Heating	- %	3	39
	EER	Cooling		2.	65
	COP	Heating	1 1	3.	68
		Cooling		70	72
	Sound power level	Heating	1	70	73
		Cooling	dB(A)		56
	Sound pressure level	Heating	7 ` 1	P-Hi: 47 Hi: 40 Me: 35 Lo: 30	58
	Silent mode sound pressure le		1 1	_	49 / 45 (Normal/Silent)
Exterior dimer	sions (Height x Width x Depth)		mm	280 × 1,370 × 740	845 × 970 × 370
Exterior appea	rance				Stucco white
(Munsell color				_	(4.2Y7.5/1.1) near equivalent
(RAL color)					(RAL 7044) near equivalent
Net weight			kg	54	78
Compressor ty	/pe & Q'ty			_	RMT5126SWP4 (Twin rotary type)×1
Compressor n	Compressor motor (Starting method)		kW	_	Direct line start
Refrigerant oil	(Amount, type)		L	_	0.9 (M-MB75)
Refrigerant (Type, amount, pre-charge length)		kg	R32 3.3 in outdoor unit (Incl. th	e amount for the piping of 30m)	
Heat exchanger			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing	
Refrigerant control				Electronic ex	pansion valve
Fan type & Q'1	TY .			Centrifugal fan ×3	Propeller fan ×1
Fan motor (Sta	arting method)		W	100 + 200 < Direct line start >	86 < Direct line start >
A : #1		Cooling	3/	D 15: 40 15: 05 May 00 1 00	75
Air flow		Heating	m³/min	P-Hi: 48 Hi: 35 Me: 28 Lo: 22	73
Available exter	rnal static pressure		Pa	Standard: 60 Max: 200	0
Outside air int	ake			Possible –	
Air filter, Qualit	y / Quantity			Procure locally	_
Shock & vibra	tion absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor
Electric heater			W	_	20 (Crank case heater)
	Remote control			(Option) Wired: RC-EX3A,RC-E5	5,RCH-E3 Wireless : RCN-KIT4-E2
Operation control	Room temperature control			Thermostat I	by electronics
CONTROL	Operation display				-
				Overload protec	tion for fan motor
Safety equipm	ents				on thermostat
					stat for fan motor
	<u> </u>	Liquid line			temperature protection
	Refrigerant piping size (O.D)	Liquid line	mm		i2(3/8")x0.8 O/U φ 9.52 (3/8") (5/8")x1.0 φ 15.88 (5/8")
	Connecting method	Gas line	+	, , ,	, , ,
	Connecting method		+	Flare piping	Flare piping
Installation	Attached length of piping		m		_
data	Insulation for piping		1		Liquid & Gas lines)
	Refrigerant line (one way) leng		m		x.50
	Vertical height diff. between O/U a	ınd I/U	m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)
	Drain hose			Hose connectable VP25 (I.D.25, O.D.32)	Hole size φ 20 x 3pcs
Drain pump, n			mm	Built-in drain pump , 600	_
Recommende	d breaker size		Α		_
L.R.A. (Locked	l rotor ampere)		А		5.0
Interconnectin	g wires Size x C	ore number		φ 1.6mmx 3 cores + earth cable	/ Terminal block (Screw fixing type)
IP number				IPX0	IP24
Standard acce	essories			Mounting kit, Drain hose	-
Option parts				Motion sen	sor : LB-KIT

Item	Indoor air t	Indoor air temperature		temperature	External static pressure	Standards
Operation	DB	WB	DB	WB	of indoor unit	Standards
Cooling	27°C	19°C	35°C	24°C	60Pa	ISO5151-T1
Heating	20°C –		7°C 6°C		oura	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) When wireless remote control is used, fan is 3 speed setting (Hi-Me-Lo) only.
 (6) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
- (7) The factory E.S.P. setting is set within the range of 80 150 Pa.If SW8-4 is turned to "ON", E.S.P. setting range can be changed to 10 200 Pa.(For RC-EX3A and RC-E5 only)

(4) Duct connected-Low / Middle static pressure type (FDUM) (a) Single type

là a una			Model		FDUM100		
ltem				Indoor unit I	FDUM100VH	Outdoor unit FDC100VN	A-W
Power source					1 Phase, 220 - 240V	50Hz / 220V 60Hz	
	Nominal cooling capacity (r	ange)	kW		10.0 [4.0(Min.)	- 11.2(Max.)]	
	Nominal heating capacity (r	ange)	kW		11.2 [4.0(Min.)	- 12.5(Max.)]	
	Dawar aanaumantian	Cooling			2.9	9	
	Power consumption	Heating	kW		2.6	66	
	Max power consumption		7		6.4	.0	
	Cooling				14.3 /	14.9	
	Running current	Heating	A		12.7 /		
	Inrush current, max current	Trodding	- ^		5, 2		
peration	illiusii cuiteiti, illax cuiteiti	Cooling			9.		
ata	Power factor		- %		9.		
		Heating					
	EER	Cooling	_		3.3		
	COP	Heating			4.2		
	Sound power level	Cooling		6	65	69	
	Courta power level	Heating				70	
	County muses were level	Cooling	dB(A)	P-Hi: 44 Hi: 38 Me: 36 Lo: 30		54	
	Sound pressure level	Heating		r-ni: 44 mi: 38	IVIE. 30 LO: 30	55	
	Silent mode sound pressure	e level		-	_	48 / 44 (Normal/Silent	t)
xterior dime	nsions (Height x Width x Dept		mm	280 × 1.3	370 × 740	845 × 970 × 370	
xterior appe		,		,.		Stucco white	
Munsell color				_	_	(4.2Y7.5/1.1) near equiva	alent
RAL color)	,					(RAL 7044) near equival	
let weight			ka	5	54	77	
ompressor t	una ⁹ Oltu		kg		_	RMT5126SWP3 (Twin rotary	tuno \1
	,, ,		134/				type)× i
Compressor motor (Starting method)			kW	-	_	Direct line start	
efrigerant oi	I (Amount, type)		L	-	_ 0.9 (M-MB75)		
efrigerant (1	ype, amount, pre-charge leng	th)	kg	R32 3.3	in outdoor unit (Incl. the	amount for the piping of 30m)	
Heat exchanger				Louver fin & inne	er grooved tubing	M shape fin & inner grooved	tubing
Refrigerant control					Electronic exp	ansion valve	
Fan type & Q'ty				Centrifuc	gal fan ×3	Propeller fan ×1	
Fan motor (Starting method)		W		rirect line start >	86 < Direct line start	>	
,		Cooling				75	-
ir flow		Heating	m³/min	P-Hi: 36 Hi: 28	3 Me: 25 Lo: 19	73	
voilable exte	rnal static pressure	ricating	Pa	Ctandard: 6	0 Max: 100	0	
	<u> </u>		га		sible		
utside air int			+				
	ty / Quantity				e locally		
	tion absorber			Rubber sleeve	(for fan motor)	Rubber sleeve (for fan motor & c	
lectric heate	<u>r</u>		W	-	_	20 (Crank case heater	,
	Remote control			(Option) W	/ired: RC-EX3A,RC-E5,	RCH-E3 Wireless: RCN-KIT4-E2	2
peration ontrol	Room temperature control				Thermostat b	y electronics	
OHUO	Operation display				_	•	
					Overload protecti	on for fan motor	
Safety equipn	aanta				Frost protection		
arety equipri	iens				Internal thermos	tat for fan motor	
					Abnormal discharge to	emperature protection	
	Refrigerant piping size (O.D	Liquid line	mm	I/U φ	9.52 (3/8") Pipe φ 9.52	2(3/8")x0.8 O/U φ 9.52 (3/8")	
	Therrigerant piping Size (O.D.	Gas line	mm	ф	5 15.88 (5/8") φ 15.88(5	5/8")x1.0 φ 15.88 (5/8")	
	Connecting method			Flare	piping	Flare piping	
stallation	Insulation for piping				Necessary (both L		
ata	Refrigerant line (one way) le	enath	m		Max	· · · · · · · · · · · · · · · · · · ·	
	Vertical height diff. between O		m	Max 50 (Outdo	or unit is higher)	Max.15 (Outdoor unit is lo	nwerl
	Drain hose	J 4114 1/ J	- ""	,	/P25 (I.D.25, O.D.32)	Hole size φ 20 x 3pc	
roin numar	<u> </u>		pa-sa		, , ,	поје ѕіде ф до х зрс	3
1 17	max lift height		mm	Built-in draii	n pump , 600		
	ed breaker size		A				
•	d rotor ampere)		A		5.		
terconnectir	ng wires Size	Core number		φ 1.6mm>	×3 cores + earth cable /	Terminal block (Screw fixing type)
number				IP	PX0	IP24	
tandard acc	essories			Mounting ki	it, Drain hose	_	
option parts				<u> </u>	Filter set : UM-FL3EF ,	Motion sensor : LB-KIT	
	a data ara massimi di 14 11 - 1	alloudos s = = -!!+"					
votes (1) Th	e data are measured at the f					The pipe length is 7.5m.	
	Item Indoor	air temperature	Outdoo	or air temperature	External static pressure	Standards	
Onor	ration	WB	DB	WR	of indoor unit	Statiuatus	

* *		•					
Item	Indoor air t	emperature	Outdoor air	temperature	External static pressure	Standards	
Operation	DB	WB	DB	WB	of indoor unit	Standards	
Cooling	27°C	19°C	35°C	24°C	60Pa	ISO5151-T1	
Heating	20°C	_	7°C	6°C	оога	ISO5151-H1	

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.(3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.(4) Select the breaker size according to the own national standard.

- (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
 (6) Static pressure of option air filter "UM-FL3EF" is 5Pa initially.
 (7) The external static pressure setting can be changed to 10-100Pa. (For RC-EX3A and RC-E5 only)

			Model		0VSAWVH	
Item				Indoor unit FDUM100VH	Outdoor unit FDC100VSA-W	
Power source	1			3 Phase, 380 - 415V 50Hz / 380V 60Hz		
Nominal cooling capacity (range)			kW		ı.) - 11.2(Max.)]	
Operation	Nominal heating capacity (ran	ge)	kW	11.2 [4.0(Mir	ı.) - 12.5(Max.)]	
	Power consumption	Cooling			.99	
	1 ower consumption	Heating	kW	2	.66	
	Max power consumption			10	0.20	
	Running current	Cooling		4.6	/ 4.9	
	nulling current	Heating	Α	4.1	/ 4.3	
	Inrush current, max current			5,	17	
data	Power factor	Cooling	%	9	93	
uata	Power factor	Heating	7 %	(93	
	EER	Cooling		3	.35	
	COP	Heating	T [4	.21	
		Cooling		25	69	
	Sound power level	Heating	T 1	65	70	
		Cooling	dB(A)		54	
	Sound pressure level	Heating	T `	P-Hi: 44 Hi: 38 Me: 36 Lo: 30	55	
	Silent mode sound pressure le		i	_	48 / 44 (Normal/Silent)	
Exterior dimer	nsions (Height x Width x Depth)	<u> </u>	mm	280 × 1,370 × 740	845 × 970 × 370	
Exterior appea			1		Stucco white	
(Munsell color				_	(4.2Y7.5/1.1) near equivalent	
(RAL color)	,				(RAL 7044) near equivalent	
Net weight			kg	54	78	
Compressor to	ype & Q'ty			_	RMT5126SWP4 (Twin rotary type)×1	
Compressor n	notor (Starting method)		kW	_	Direct line start	
	(Amount, type)		L	_	0.9 (M-MB75)	
	ype, amount, pre-charge length		kg	B32 3 3 in outdoor unit (Incl. th	ne amount for the piping of 30m)	
Heat exchang	<u> </u>		i.g	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing	
Refrigerant co				<u> </u>	pansion valve	
Fan type & Q'				Centrifugal fan ×3	Propeller fan ×1	
	arting method)		W	100 + 130 < Direct line start >	86 < Direct line start >	
Tan motor (or	arting motilody	Cooling		100 1 100 C Billoot into start >	75	
Air flow		Heating	m³/min	P-Hi: 36 Hi: 28 Me: 25 Lo: 19	73	
Available oxto	rnal static pressure	Treating	Pa	Standard: 60 Max: 100	0	
Outside air int	· · · · · · · · · · · · · · · · · · ·		га	Possible	_	
				Procure locally –		
Air filter, Quali	· · · · · · · · · · · · · · · · · · ·			•		
Shock & vibra			14/	Rubber sieeve (for fan motor)	Rubber sleeve (for fan motor & compressor	
Electric heater	1		W	- (Outlier) Winst PO FYON DO F	20 (Crank case heater)	
Operation	Remote control			(Option) Wired: RC-EX3A,RC-E5,RCH-E3 Wireless: RCN-KIT4-E2 Thermostat by electronics		
control	Room temperature control			Thermostat	by electronics	
	Operation display				_	
					tion for fan motor ion thermostat	
Safety equipm	nents				stat for fan motor	
					temperature protection	
	T	Liquid line		I/U φ 9.52 (3/8") Pine φ 9.5	52(3/8")x0.8 O/U φ 9.52 (3/8")	
	Refrigerant piping size (O.D)	Gas line	mm		(5/8")x1.0 φ 15.88 (5/8")	
	Connecting method			Flare piping	Flare piping	
Installation	Insulation for piping				Liquid & Gas lines)	
data	Refrigerant line (one way) len	ath	m	Max.50		
	Vertical height diff. between O/U		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)	
Drain hose		- ""	, , ,			
Drain pump, max lift height			mm	D 711 1 1 2000		
1 17	ed breaker size		A		<u> </u>	
			A		5.0	
,	d rotor ampere)	'ara number	A			
Interconnectin	ig wires Size x C	Core number	+ +	•	/ Terminal block (Screw fixing type)	
IP number				IPX0	IP24	
Standard acce	essories		1	Mounting kit, Drain hose		
Option parts				Filter set: UM-FL3EF		

* *		•					
Item	Indoor air temperature		Outdoor air	temperature	External static pressure	Standards	
Operation	DB	WB	DB	WB	of indoor unit	Standards	
Cooling	27°C	19°C	35°C	24°C	60Pa	ISO5151-T1	
Heating	20°C	_	7°C	6°C	оога	ISO5151-H1	

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.(3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.(4) Select the breaker size according to the own national standard.

- (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
 (6) Static pressure of option air filter "UM-FL3EF" is 5Pa initially.
 (7) The external static pressure setting can be changed to 10-100Pa. (For RC-EX3A and RC-E5 only)

			Model		5VNAWVH		
Item				Indoor unit FDUM125VH	Outdoor unit FDC125VNA-W		
Power source				1 Phase, 220 - 240	V 50Hz / 220V 60Hz		
Nominal cooling capacity (range)			kW	12.5 [5.0(Min.) - 14.0(Max.)]			
	Nominal heating capacity (ran	ge)	kW	14.0 [4.0(Min.) - 16.0(Max.)]			
	Power consumption	Cooling		4.	36		
	Power consumption	Heating	kW	3.	69		
	Max power consumption			6.	40		
	D	Cooling		20.4	/ 21.3		
	Running current Heating		7 A	17.8	/ 18.6		
	Inrush current, max current		7	5,	26		
Operation		Cooling		9	93		
data	Power factor	Heating	%	g	90		
	EER	Cooling		2.	87		
	COP	Heating	-		79		
		Cooling	1				
	Sound power level	Heating	-	67	71		
		Cooling	dB(A)		54		
	Sound pressure level	Heating	- ab(r)	P-Hi: 45 Hi: 40 Me: 34 Lo: 29	56		
	Silent mode sound pressure le		- -		48 / 45 (Normal/Silent)		
Exterior dimer	nsions (Height x Width x Depth)	5VEI	mm	280 × 1,370 × 740	845 × 970 × 370		
Exterior appea			111111	200 x 1,370 x 740			
(Munsell color				-	Stucco white (4.2Y7.5/1.1) near equivalent		
(RAL color)			+ . +		(RAL 7044) near equivalent		
Net weight	0.00		kg	54	77		
Compressor t	,, ,		1		RMT5126SWP3 (Twin rotary type)×1		
<u> </u>	notor (Starting method)		kW		Direct line start		
	(Amount, type)		L	_	0.9 (M-MB75)		
,	ype, amount, pre-charge length)		kg	,	e amount for the piping of 30m)		
Heat exchang				Louver fin & inner grooved tubing	M shape fin & inner grooved tubing		
Refrigerant control					pansion valve		
Fan type & Q'	-			Centrifugal fan ×3	Propeller fan ×1		
Fan motor (St	arting method)		W	100 + 200 < Direct line start >	86 < Direct line start >		
Air flow		Cooling Heating	m³/min	P-Hi: 39 Hi: 32 Me: 26 Lo: 20	75 73		
Available exte	rnal static pressure		Pa	Standard: 60 Max: 100	0		
Outside air int	· · · · · · · · · · · · · · · · · · ·			Possible	_		
Air filter, Quali			1	Procure locally	_		
Shock & vibra			1	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor		
Electric heater			W	_	20 (Crank case heater)		
Licotilo ficato	Remote control		+ "	(Option) Wired: RC-EX3A,RC-E5,RCH-E3 Wireless: RCN-KIT4-E2			
Operation	Room temperature control		+	Thermostat by electronics			
control	Operation display			momodati	_		
	- Operation diopidy		+	Overload protect	tion for fan motor		
0.1.					on thermostat		
Safety equipm	nents				stat for fan motor		
					temperature protection		
	Refrigerant piping size (O.D)	Liquid line	mm	I/U ϕ 9.52 (3/8") Pipe ϕ 9.5	2(3/8")x0.8 O/U φ 9.52 (3/8")		
	Tionigorant piping size (O.D)	Gas line		φ 15.88 (5/8") φ 15.88	(5/8")x1.0 φ 15.88 (5/8")		
	Connecting method			Flare piping	Flare piping		
Installation data	Insulation for piping			Necessary (both Liquid & Gas lines)			
uala	Refrigerant line (one way) len	gth	m	Max.50			
	Vertical height diff. between O/U	and I/U	m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)		
Drain hose			Hose connectable VP25 (I.D.25, O.D.32) Hole size ϕ 20 x 3pcs				
Drain pump, max lift height			mm	Built-in drain pump , 600			
1 17	d breaker size		Α				
	d rotor ampere)		A		5.0		
Interconnectin	· · · · · · · · · · · · · · · · · · ·	ore number	+ "		/ Terminal block (Screw fixing type)		
IP number	355 J55	2.2.10.1001	+ +	IPX0	IP24		
Standard acce	essories			Mounting kit, Drain hose			
Option parts			+ +	<u> </u>	Motion sensor : LB-KIT		
Option parts				Filler Set . UIVI-FLSEF ,	WOUGH SCHOOL . LD-IVII		

		_					
Item	Indoor air t	Indoor air temperature		temperature	External static pressure	Standards	
Operation	DB	WB	DB	WB	of indoor unit	Standards	
Cooling	27°C	19°C	35°C	24°C	60Pa	ISO5151-T1	
Heating	20°C	_	7°C	6°C	оога	ISO5151-H1	

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.

- (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
 (6) Static pressure of option air filter "UM-FL3EF" is 5Pa initially.
 (7) The external static pressure setting can be changed to 10-100Pa. (For RC-EX3A and RC-E5 only)

				Model	FDUM125	5VSAWVH	
Item					Indoor unit FDUM125VH	Outdoor unit FDC125VSA-W	
Power source					3 Phase, 380 - 415	V 50Hz / 380V 60Hz	
Nominal cooling capacity (range)			kW	12.5 [5.0(Min.) - 14.0(Max.)]			
	Nominal heating capac	city (range	e)	kW	14.0 [4.0(Min	.) - 16.0(Max.)]	
		, ,	Cooling			36	
	Power consumption		Heating	kW		69	
	Max power consumpti	ion	<u> </u>	1		.20	
	max power concumpt	1011	Cooling			/7.2	
	Running current		Heating	A		/ 6.2	
	Inrush current, max cu	ırront	rieating	⊣ ^ ¦		17	
Operation	mrush current, max cu	irrent	0 1				
data	Power factor		Cooling	- %		02	
			Heating			00	
	EER		Cooling	_		87	
	COP		Heating		3.	79	
	Sound power level		Cooling		67	71	
	Souria power level		Heating		07	/ 1	
			Cooling	dB(A)		54	
	Sound pressure level		Heating	- · · /	P-Hi: 45 Hi: 40 Me: 34 Lo: 29	56	
	Silent mode sound pre	essure lev		┪ ╽	_	48 / 45 (Normal/Silent)	
Exterior dimer	sions (Height x Width x		01	mm	280 × 1,370 × 740	845 × 970 × 370	
Exterior appea		Dopuij		111111	200 ^ 1,010 ^ 140	Stucco white	
(Munsell color (RAL color)					-	(4.2Y7.5/1.1) near equivalent (RAL 7044) near equivalent	
Net weight				kg	54	78	
Compressor ty	me & ∩'tv			i iig	_	RMT5126SWP4 (Twin rotary type)×1	
	notor (Starting method)			kW		Direct line start	
	(Amount, type)			L		0.9 (M-MB75)	
	ype, amount, pre-charge	e length)		kg		e amount for the piping of 30m)	
Heat exchange					Louver fin & inner grooved tubing	M shape fin & inner grooved tubing	
Refrigerant co	ntrol				Electronic ex	pansion valve	
Fan type & Q't	у				Centrifugal fan ×3	Propeller fan ×1	
Fan motor (Sta	arting method)			W	100 + 200 < Direct line start >	86 < Direct line start >	
			Cooling	3, ,		75	
Air flow			Heating	m³/min	P-Hi: 39 Hi: 32 Me: 26 Lo: 20	73	
Available exter	rnal static pressure		1	Pa	Standard: 60 Max: 100	0	
Outside air inta	· · · · · · · · · · · · · · · · · · ·			1 " "	Possible	_	
				1		_	
Air filter, Qualit					Procure locally	Publication (for for month)	
Shock & vibrat					Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor	
Electric heater	1			W	-	20 (Crank case heater)	
Operation	Remote control				(Option) Wired: RC-EX3A,RC-E5,RCH-E3 Wireless: RCN-KIT4-E2		
control	Room temperature cor	ntrol			Thermostat b	by electronics	
	Operation display				-	_	
Safety equipm	ents				Frost protecti Internal thermos	tion for fan motor on thermostat stat for fan motor emperature protection	
	Refrigerant piping size	e (O.D)	Liquid line Gas line	mm		2(3/8")x0.8 O/U φ 9.52 (3/8") (5/8")x1.0 φ 15.88 (5/8")	
	Connecting method				Flare piping	Flare piping	
Installation	Insulation for piping				Necessary (both	Liquid & Gas lines)	
data	Refrigerant line (one v	vay) lengt	h	m	Max.50		
	Vertical height diff. between	,, <u> </u>		m	Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lov		
	Drain hose	2011 0/ 0 al		- "	Hose connectable VP25 (I.D.25, O.D.32)	Hole size ϕ 20 x 3pcs	
Drain pump, max lift height			mm	, , , , , , , , , , , , , , , , , , , ,			
Recommended breaker size			mm	Built-in drain pump , 600 —			
				A		-	
•	rotor ampere)			A		.0	
Interconnectin	g wires	Size x Co	re number		· · · · · · · · · · · · · · · · · · ·	Terminal block (Screw fixing type)	
IP number					IPX0	IP24	
Standard acce	ssories				Mounting kit, Drain hose	_	
Option parts					Filter set: UM-FL3EF,	Motion sensor : LB-KIT	
Notes (1) The	data are measured at	the follow	wing conditions	S.		The pipe length is 7.5m.	

* *		•					
Item	Indoor air temperature		Outdoor air	temperature	External static pressure	Standards	
Operation	DB	WB	DB	WB	of indoor unit	Standards	
Cooling	27°C	19°C	35°C	24°C	60Pa	ISO5151-T1	
Heating	20°C	_	7°C	6°C	оога	ISO5151-H1	

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions. (4) Select the breaker size according to the own national standard.

- (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
 (6) Static pressure of option air filter "UM-FL3EF" is 5Pa initially.
 (7) The external static pressure setting can be changed to 10-100Pa. (For RC-EX3A and RC-E5 only)

			Model	FDUM140	HVWANVO		
Item				Indoor unit FDUM140VH	Outdoor unit FDC140VNA-W		
Power source				1 Phase, 220-240V	- 50Hz / 220V - 60Hz		
	Nominal cooling capacity (rang	je)	kW	13.6 [5.0(Min	.) - 14.5(Max.)]		
	Nominal heating capacity (range	je)	kW	15.5 [4.0(Min.) - 16.5(Max.)]			
		Cooling		5.	13		
	Power consumption	Heating	kW	4.	21		
	Max power consumption		1 1	6.	40		
		Cooling			/ 24.8		
	Running current	Heating	T A		/ 21.3		
	Inrush current, max current	1.1009	┤ ^` ├		27		
Operation	macri carroni, mar carroni	Cooling			24		
data	Power factor	Heating	- %		90		
	EER	Cooling			65		
	COP	Heating	-		68		
	COF			J.	72		
	Sound power level	Cooling	-	70	73		
		Heating	- .5,,,,				
	Sound pressure level	Cooling	_ dB(A)	P-Hi: 47 Hi: 40 Me: 35 Lo: 30	56		
	·	Heating	4		58		
	Silent mode sound pressure le	vel		-	49 / 45 (Normal/Silent)		
	nsions (Height x Width x Depth)		mm	280 × 1,370 × 740	845 × 970 × 370		
Exterior appea (Munsell color (RAL color)				-	Stucco white (4.2Y7.5/1.1) near equivalent (RAL 7044) near equivalent		
Net weight			kg	54	77		
Compressor to	vpe & Q'ty		1 1	_	RMT5126SWP3 (Twin rotary type)×1		
Compressor n	notor (Starting method)		kW	_	Direct line start		
<u> </u>	(Amount, type)		L	_	0.9 (M-MB75)		
	ype, amount, pre-charge length)		kg	R32 3 3 in outdoor unit (Incl. th	e amount for the piping of 30m)		
Heat exchanger			I Ng	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing		
Refrigerant control				pansion valve			
Fan type & Q'				Centrifugal fan ×3	Propeller fan ×1		
	arting method)		W	100 + 200 < Direct line start >	86 < Direct line start >		
raii iiiotoi (St	arting metriod)	Caslina	VV	100 + 200 < Direct line start >			
Air flow		Cooling Heating	m³/min	P-Hi: 48 Hi: 35 Me: 28 Lo: 22	75 73		
Available exte	rnal static pressure		Pa	Standard: 60 Max: 100	0		
Outside air int				Possible	_		
Air filter, Quali	ty / Quantity			Procure locally	_		
Shock & vibra	tion absorber			Rubber sleeve (for fan motor) Rubber sleeve (for fan motor & co			
Electric heater	r		W	_	20 (Crank case heater)		
O .:	Remote control			(Option) Wired: RC-EX3A,RC-E5,RCH-E3 Wireless: RCN-KIT4-E2			
Operation control	Room temperature control			Thermostat b	by electronics		
CONTROL	Operation display			-	=		
Safety equipm	nents			Frost protecti Internal thermos	tion for fan motor on thermostat stat for fan motor temperature protection		
	Refrigerant piping size (O.D)	Liquid line Gas line	mm		2(3/8")x0.8 O/U φ 9.52 (3/8") (5/8")x1.0 φ 15.88 (5/8")		
	Connecting method	1		Flare piping	Flare piping		
Installation	Insulation for piping				Liquid & Gas lines)		
data	Refrigerant line (one way) leng	th	m	Max.50			
	Vertical height diff. between O/U a		m	Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lo			
	Drain hose			Hose connectable VP25 (I.D.25, O.D.32) Hole size ϕ 20 x 3pcs			
Drain pump, max lift height			mm	D. III. L. L. COO			
1 1/					_		
	d breaker size		A				
•	d rotor ampere)		A		5.0		
Interconnectin	ig wires Size x C	ore number		·	/ Terminal block (Screw fixing type)		
IP number				IPX0	IP24		
Standard acce	essories			Mounting kit, Drain hose	_		
Option parts				Filter set: UM-FL3EF,	Motion sensor : LB-KIT		

		-					
Item	Indoor air temperature		Outdoor air	temperature	External static pressure	Standards	
Operation	DB	WB	DB	WB	of indoor unit	Standards	
Cooling	27°C	19°C	35°C	24°C	60Pa	ISO5151-T1	
Heating	20°C	_	7°C	6°C	оога	ISO5151-H1	

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.

- (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
 (6) Static pressure of option air filter "UM-FL3EF" is 5Pa initially.
 (7) The external static pressure setting can be changed to 10-100Pa. (For RC-EX3A and RC-E5 only)

			Model		DVSAWVH	
Item				Indoor unit FDUM140VH	Outdoor unit FDC140VSA-W	
Power source				3 Phase, 380 - 415	V 50Hz / 380V 60Hz	
Nominal cooling capacity (range)			kW	13.6 [5.0(Min	- 14.5(Max.)]	
	Nominal heating capacity (rar	ige)	kW	15.5 [4.0(Min	.) - 16.5(Max.)]	
	Davies accessing	Cooling		5.	13	
	Power consumption	Heating	kW	4.	21	
	Max power consumption	·	7 1	10	.20	
		Cooling		8.1	/ 8.6	
	Running current Heating		1 A	6.8	/7.2	
	Inrush current, max current		-	5,	18	
Operation		Cooling		9	01	
data	Power factor	Heating	%	3	39	
	EER	Cooling		2.	65	
	COP	Heating	-		68	
		Cooling	1		72	
	Sound power level	Heating	-	70	73	
		Cooling	dB(A)		56	
	Sound pressure level	Heating	- ab, ,	P-Hi: 47 Hi: 40 Me: 35 Lo: 30	58	
	Silent mode sound pressure I		- -		49 / 45 (Normal/Silent)	
Exterior dimer	nsions (Height x Width x Depth)	evei .	mm	280 × 1,370 × 740	845 × 970 × 370	
Exterior appea			1	200 × 1,570 × 740		
(Munsell color (RAL color)				_	Stucco white (4.2Y7.5/1.1) near equivalent (RAL 7044) near equivalent	
Net weight			kg	54	78	
Compressor to	vne & ∩'tv		- Ng	_	RMT5126SWP4 (Twin rotary type)×1	
	notor (Starting method)		kW		Direct line start	
<u> </u>	(Amount, type)		L		0.9 (M-MB75)	
	ype, amount, pre-charge length	١	_	R32 3.3 in outdoor unit (Incl. the amount for the piping of 30m)		
Heat exchang)	kg	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing	
			+		pansion valve	
Refrigerant co			+		i I	
Fan type & Q'	<u> </u>		W	Centrifugal fan ×3 100 + 200 < Direct line start >	Propeller fan ×1	
Fan motor (St	arting method)	0 15	VV	100 + 200 < Direct line start >	86 < Direct line start >	
Air flow		Cooling Heating	m³/min	P-Hi: 48 Hi: 35 Me: 28 Lo: 22	75 73	
Available exte	rnal static pressure		Pa	Standard: 60 Max: 100	0	
Outside air int	ake			Possible	_	
Air filter, Quali	ty / Quantity			Procure locally	_	
Shock & vibra	tion absorber			Rubber sleeve (for fan motor) Rubber sleeve (for fan motor & co		
Electric heater	,		W	_	20 (Crank case heater)	
o .:	Remote control			(Option) Wired: RC-EX3A,RC-E5,RCH-E3 Wireless: RCN-KIT4-E2		
Operation control	Room temperature control	,		Thermostat by electronics		
CONTROL	Operation display			-	=	
Safety equipm	nents			Frost protecti	tion for fan motor on thermostat stat for fan motor	
					emperature protection	
		Liquid line	+ +		2(3/8")x0.8 O/U φ 9.52 (3/8")	
	Refrigerant piping size (O.D)	Gas line	⊢ mm		(5/8")x1.0 φ 15.88 (5/8")	
	Connecting method	1	+ +	Flare piping	Flare piping	
Installation	Insulation for piping		+ +	Necessary (both Liquid & Gas lines)		
data	Refrigerant line (one way) len	ath	m	Max.50		
	Vertical height diff. between O/U		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)	
Drain hose			Hose connectable VP25 (I.D.25, O.D.32) Hole size ϕ 20 x 3pcs			
Drain pump, max lift height			mm	D 311 1 1 1 2000		
1 17	d breaker size		A		<u> </u>	
			A		- i.0	
•	d rotor ampere)	Para number	A			
Interconnectin	ig wires Size x (Core number	+ -		Terminal block (Screw fixing type)	
IP number			+ +	IPX0	IP24	
Standard acce	essories		+ +	Mounting kit, Drain hose	— — — — — — — — — — — — — — — — — — —	
Option parts				Filter set: UM-FL3EF,	Motion sensor : LB-KIT	

* *		•					
Item	Indoor air temperature		Outdoor air	temperature	External static pressure	Standards	
Operation	DB	WB	DB	WB	of indoor unit	Stanuarus	
Cooling	27°C	19°C	35°C	24°C	60Pa	ISO5151-T1	
Heating	20°C	_	7°C	6°C	оога	ISO5151-H1	

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.(3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.(4) Select the breaker size according to the own national standard.

- (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
 (6) Static pressure of option air filter "UM-FL3EF" is 5Pa initially.
 (7) The external static pressure setting can be changed to 10-100Pa. (For RC-EX3A and RC-E5 only)

(b) Twin type

			Model		OVNAWPVH
Item				Indoor unit FDUM50VH (2 units)	Outdoor unit FDC100VNA-W
Power source					V 50Hz / 220V 60Hz
	Nominal cooling capacity (range)	kW	10.0 [4.0(Mir	n.) - 11.2(Max.)]
	Nominal heating capacity (range)	kW	11.2 [4.0(Mir	n.) - 12.5(Max.)]
	Davier consumentian	Cooling		3	.25
	Power consumption	Heating	kW	3	.04
	Max power consumption		-	6	.40
		Cooling			/ 15.2
	Running current	Heating			/ 14.2
	law ich ourrent may ourrent		─ │ ^		, 26
Operation	Inrush current, max current				
data	Power factor	Cooling	%		97
		Heating			97
	EER	Cooling		3	.08
	COP	Heating		3	.68
	0	Cooling		20	69
	Sound power level	Heating		60	70
		Cooling	dB(A)		54
	Sound pressure level	Heating	- 420,4	P-Hi: 37 Hi: 32 Me: 29 Lo: 26	55
	Cilent mode cound pressur				48 / 44 (Normal/Silent)
Evtorior dias	Silent mode sound pressur		,,,,,,,		` ,
	nsions (Height x Width x Dept	(1)	mm	280 × 750 × 635	845 × 970 × 370
Exterior appearance Munsell color)			-	Stucco white (4.2Y7.5/1.1) near equivalent (RAL 7044) near equivalent	
(RAL color)			l.m	20	1 1
Net weight	0.01		kg	29	77
Compressor ty	<u> </u>				RMT5126SWP3 (Twin rotary type)×1
Compressor n	notor (Starting method)		kW	_	Direct line start
Refrigerant oil (Amount, type)			L	_	0.9 (M-MB75)
Refrigerant (Type, amount, pre-charge length)			kg	R32 3.3 in outdoor unit (Incl. th	ne amount for the piping of 30m)
Heat exchanger				Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant control			<u> </u>	pansion valve	
Fan type & Q'1				Centrifugal fan ×1	Propeller fan ×1
	<u>. </u>		W		'
ran motor (Sta	arting method)	Ta	VV	100 < Direct line start >	86 < Direct line start >
Air flow		Cooling	m³/min	P-Hi: 13 Hi: 10 Me: 9 Lo: 8	75
		Heating			73
Available exte	rnal static pressure		Pa	Standard: 35 Max: 100	0
Outside air int	ake			Possible	_
Air filter, Qualit	ty / Quantity			Procure locally	_
Shock & vibra	<u> </u>			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compresso
Electric heater			W	_	20 (Crank case heater)
	Remote control			(Ontion) Wired : RC-EX3A RC-E	5,RCH-E3 Wireless : RCN-KIT4-E2
Operation					·
control	Room temperature control			Inermostat	by electronics
	Operation display			<u> </u>	_
Safety equipm	nents			Frost protect Internal thermo	tion for fan motor ion thermostat stat for fan motor temperature protection
	Refrigerant piping size (O.I.	Liquid line Gas line	mm -		① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8")
	Connecting method			Flare piping	Flare piping
4 - H - 2 *	Insulation for piping			Necessary (both	Liquid & Gas lines)
				Necessary (both Liquid & Gas lines) Max.50	
	110	enath	l m i	IVIZ	
	Refrigerant line (one way)		m		
	Refrigerant line (one way) Vertical height diff. between C		m m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)
data	Refrigerant line (one way) Vertical height diff. between C Drain hose		m	Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32)	Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs
data Orain pump, n	Refrigerant line (one way) Vertical height diff. between C Drain hose nax lift height		m mm	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)
data Orain pump, n	Refrigerant line (one way) Vertical height diff. between C Drain hose		m	Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump , 600	Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs
data Drain pump, n Recommende	Refrigerant line (one way) Vertical height diff. between C Drain hose nax lift height		m mm	Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump, 600	Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs —
Drain pump, n Recommende L.R.A. (Locked	Refrigerant line (one way) Vertical height diff. between C Drain hose nax lift height d breaker size d rotor ampere)		m mm A	Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump , 600	Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs —
Drain pump, n Recommende R.A. (Locked nterconnectin	Refrigerant line (one way) Vertical height diff. between C Drain hose nax lift height d breaker size d rotor ampere)	/U and I/U	m mm A	Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump , 600 ξ φ 1.6mm×3 cores + earth cable	Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs - 5.0 / Terminal block (Screw fixing type)
Drain pump, n Recommende L.R.A. (Locked Interconnectin P number	Refrigerant line (one way) Vertical height diff. between C Drain hose nax lift height d breaker size d rotor ampere) g wires Size	/U and I/U	m mm A	Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump , 600 φ 1.6mm×3 cores + earth cable	Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs - - 5.0 / Terminal block (Screw fixing type) IP24
	Refrigerant line (one way) Vertical height diff. between C Drain hose nax lift height d breaker size d rotor ampere) g wires Size	/U and I/U	m mm A	Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump , 600 φ 1.6mm×3 cores + earth cable IPX0 Mounting kit, Drain hose	Max.15 (Outdoor unit is lower) Hole size ϕ 20 x 3pcs - 5.0 / Terminal block (Screw fixing type)

Notes (1) The data are measured at the following conditions.

			_				
ſ	Item	Indoor air t	emperature	Outdoor air	temperature	External static pressure	Standards
	Operation	DB	WB	DB	WB	of indoor unit	Staridards
	Cooling	27°C	19°C	35°C	24°C	35Pa	ISO5151-T1
	Heating	20°C	_	7°C	6°C	33Fa	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
- (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together. (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U (8) Static pressure of option air filter "UM-FL1EF" is 5Pa initially.

- (9) The external static pressure setting can be changed to 10-100Pa. (For RC-EX3A and RC-E5 only)

Operation data Po Sc Sc Sc Sc Sc Sc Sc Sc Sc S	Iominal cooling capacity (ranglominal heating capacity (ranglominal heating capacity (ranglower consumption Idax power consumption Itunning current Insush current, max current Insush current, max current Insush curre		kW kW kW	10.0 [4.0(Min 11.2 [4.0(Min 3. 3. 10 4.9 4.6 5, 9	Outdoor unit FDC100VSA-W / 50Hz / 380V 60Hz L) - 11.2(Max.)] L) - 12.5(Max.)] 25 04 L20 / 5.2 / 4.8 17
Operation data Pool Scient Sci	lominal heating capacity (rang lower consumption flax power consumption funning current furush current, max current lower factor ER OOP ound power level	Cooling Heating Cooling Heating Cooling Heating Cooling Heating Cooling Heating Cooling Cooling Cooling Cooling	kW kW	10.0 [4.0(Min 11.2 [4.0(Min 3. 3. 10 4.9 4.6 5, 9	.) - 11.2(Max.)] .) - 12.5(Max.)] .25 .04 .20 / 5.2 / 4.8 17
Operation data Operation data EE Co Sc Sc Exterior dimensior Exterior appearance	lominal heating capacity (rang lower consumption flax power consumption funning current furush current, max current lower factor ER OOP ound power level	Cooling Heating Cooling Heating Cooling Heating Cooling Heating Cooling Heating Cooling Cooling Cooling Cooling	kW kW	11.2 4.0(Min 3. 3. 10 4.9 4.6 5, 9) - 12.5(Max.)] .25 .04 .20 / 5.2 / 4.8 17
Operation data Pool Scient Sci	lower consumption flax power flax power flax power flax flax power flax power flax power flax flax power f	Cooling Heating Cooling Heating Cooling Heating Cooling Heating Cooling Heating Cooling Cooling	kW	3. 3. 10 4.9 4.6 5, 9	.25 .04 .20 / 5.2 / 4.8 17
Operation data Operation data EE Cr Sc Sc Exterior dimensior Exterior appearance	flax power consumption tunning current turnsh current, max current ower factor ER COP ound power level ound pressure level	Cooling Heating Cooling Heating Cooling Heating Cooling Heating Cooling Cooling	A	3. 10 4.9 4.6 5, 9	.04 .20 / 5.2 / 4.8 17
Operation data Operation data EE Cr Sc Sc Exterior dimensior Exterior appearance	flax power consumption tunning current turnsh current, max current ower factor ER COP ound power level ound pressure level	Cooling Heating Cooling Heating Cooling Heating Cooling Cooling Cooling	A	10 4.9 4.6 5, 9	7.20 7.5.2 7.4.8 17
Operation data Operation data EE Co So Sc Exterior dimensior Exterior appearance	dunning current arush current, max current ower factor ER OP ound power level ound pressure level	Heating Cooling Heating Cooling Heating Cooling Cooling		4.9 4.6 5, 9	/ 5.2 / 4.8 17
Operation data Pool Scient Sci	ower factor ER OP ound power level ound pressure level	Heating Cooling Heating Cooling Heating Cooling Cooling		4.6 , 5, 9 9	/ 4.8 17 95
Operation data Pool Scient Sci	ower factor ER OP ound power level ound pressure level	Cooling Heating Cooling Heating Cooling		5, 9 9	17 95
Operation data Pool	ower factor ER OP ound power level ound pressure level	Heating Cooling Heating Cooling	- % -	9	95
data Po	ER OP ound power level ound pressure level	Heating Cooling Heating Cooling	- % -	9	
Et Co	ER OP ound power level ound pressure level	Cooling Heating Cooling	%		-
Sc Si Exterior dimension Exterior appearance	ound power level	Heating Cooling			96
So So Si Exterior dimension Exterior appearance	ound power level	Cooling		3.	.08
Si Exterior dimension Exterior appearance	ound pressure level	_		3.	68
Si Exterior dimension Exterior appearance	ound pressure level	_			69
Si Exterior dimension Exterior appearance	<u> </u>	J	7	60	70
Si Exterior dimension Exterior appearance	<u> </u>	Cooling	dB(A)		54
Exterior dimension Exterior appearance	ilent mode sound pressure lev	Heating	- "Z(, 1	P-Hi: 37 Hi: 32 Me: 29 Lo: 26	55
Exterior dimension Exterior appearance			┥ ├		48 / 44 (Normal/Silent)
Exterior appearance	ns (Height x Width x Depth)	VOI	mm	280 × 750 × 635	845 × 970 × 370
	1 /		+	200 × 100 × 000	Stucco white
(RAL color)	ice			-	(4.2Y7.5/1.1) near equivalent (RAL 7044) near equivalent
Net weight			kg	29	78
Compressor type	& Q'tv		1 1	_	RMT5126SWP4 (Twin rotary type)×1
<u> </u>	or (Starting method)		kW		Direct line start
Refrigerant oil (Amount, type)		L		0.9 (M-MB75)	
Refrigerant (Type, amount, pre-charge length)		kg	B32.3.3 in outdoor unit (Incl. th	ne amount for the piping of 30m)	
Heat exchanger	, amount, pre charge length		l kg	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant control				pansion valve	
Fan type & Q'ty	JI		+ +	Centrifugal fan ×1	Propeller fan ×1
Fan motor (Startin	ag mothod)		W	100 < Direct line start >	86 < Direct line start >
rairinotoi (Startiii	ig memou)	Cooling	- VV	100 < Direct line start >	
Air flow		Cooling Heating	m³/min	P-Hi: 13 Hi: 10 Me: 9 Lo: 8	75 73
Available external	<u></u>		Pa	Standard: 35 Max: 100	0
Outside air intake				Possible	_
Air filter, Quality / 0				Procure locally	_
Shock & vibration	absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor
Electric heater			W		20 (Crank case heater)
Operation Re	emote control			(Option) Wired: RC-EX3A,RC-E5	5,RCH-E3 Wireless : RCN-KIT4-E2
control	oom temperature control			Thermostat b	by electronics
0	peration display			<u>-</u>	_
Safety equipments	rs .			Frost protection Internal thermost	tion for fan motor ion thermostat stat for fan motor temperature protection
	efrigerant piping size (O.D)	Liquid line Gas line	mm	. , , - , , ,	① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8")
Re	connecting method			Flare piping	Flare piping
Co	netallation		1		Liquid & Gas lines)
Installation In	sulation for piping	data		Ma	ix.50
Installation data		th	m		
Installation data	sulation for piping		m m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)
Installation data Installation data Re	nsulation for piping defrigerant line (one way) lengt ertical height diff. between O/U ar			Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)
Installation data Re Ve	nsulation for piping lefrigerant line (one way) lengt ertical height diff. between O/U ar irain hose		m	Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32)	
Installation data In: Re Ve Dr Drain pump, max	nsulation for piping defrigerant line (one way) lengt ertical height diff. between O/U ar vrain hose lift height		m	Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump, 600	Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs -
Installation data In: Re Ve Dr Drain pump, max Recommended br	nsulation for piping defrigerant line (one way) lengtertical height diff. between O/U autrain hose lift height reaker size		m mm A	Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump , 600	Max.15 (Outdoor unit is lower) Hole size ϕ 20 x 3pcs -
Installation data In: Re Ve Dr Drain pump, max Recommended br L.R.A. (Locked rot	nsulation for piping defrigerant line (one way) lengtertical height diff. between O/U and the state of the st	nd I/U	m	Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump , 600	Max.15 (Outdoor unit is lower) Hole size ϕ 20 x 3pcs - 5.0
Installation data Installation data Recommended br L.R.A. (Locked rot Interconnecting will also be a continuous properties)	nsulation for piping defrigerant line (one way) lengtertical height diff. between O/U and the state of the st		m mm A	Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump , 600 - 5 φ 1.6mm×3 cores + earth cable /	Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs - 5.0 / Terminal block (Screw fixing type)
Installation data Installation data Rever Dr Drain pump, max Recommended br L.R.A. (Locked rot	asulation for piping defrigerant line (one way) lengtertical height diff. between O/U and the second	nd I/U	m mm A	Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump , 600	Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs - 5.0

Item	Indoor air t	emperature	Outdoor air	temperature	External static pressure	Standards
Operation	DB	WB	DB	WB	of indoor unit	Staridards
Cooling	27°C	19°C	35°C	24°C	35Pa	ISO5151-T1
Heating	20°C	_	7°C	6°C	SSFa	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
- (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together. (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U (8) Static pressure of option air filter "UM-FL1EF" is 5Pa initially.

- (9) The external static pressure setting can be changed to 10-100Pa. (For RC-EX3A and RC-E5 only)

			Model	FDUM125	VNAWPVH
Item				Indoor unit FDUM60VH (2 units)	Outdoor unit FDC125VNA-W
Power source				1 Phase, 220 - 240	V 50Hz / 220V 60Hz
	Nominal cooling capacity (range	je)	kW	12.5 [5.0(Min	.) - 14.0(Max.)]
	Nominal heating capacity (range	je)	kW	14.0 [4.0(Min	.) - 16.0(Max.)]
		Cooling		4.	53
	Power consumption	Heating	kW	3.	52
	Max power consumption		-	6.	40
		Cooling			/ 21.2
	Running current	Heating	A		/ 16.5
	Inrush current, max current	1.1009	┤ ^` ├		26
Operation	n Cooling				7
data	Power factor	Heating	- %		77 77
	EER	Cooling	+ +		76
	COP		-		98
	COP	Heating		3.	96
	Sound power level	Cooling	-	60	71
		Heating	┥ ト		
	Sound pressure level	Cooling	dB(A)	P-Hi: 36 Hi: 31 Me: 28 Lo: 25	54
	·	Heating	_		56
	Silent mode sound pressure le	vel		_	48 / 45 (Normal/Silent)
Exterior dimer	sions (Height x Width x Depth)		mm	280 × 950 × 635	845 × 970 × 370
Exterior appearance (Munsell color)			_	Stucco white (4.2Y7.5/1.1) near equivalent	
(RAL color)					(RAL 7044) near equivalent
Net weight			kg	34	77
Compressor ty	rpe & Q'ty			_	RMT5126SWP3 (Twin rotary type)×1
Compressor n	notor (Starting method)		kW	_	Direct line start
Refrigerant oil (Amount, type)			L	_	0.9 (M-MB75)
Refrigerant (Type, amount, pre-charge length)			kg	R32 3.3 in outdoor unit (Incl. th	e amount for the piping of 30m)
Heat exchange	er			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant control			Electronic ex	pansion valve	
Fan type & Q'1	У			Centrifugal fan ×2	Propeller fan ×1
Fan motor (Sta	arting method)		W	130 < Direct line start >	86 < Direct line start >
Air flow	,	Cooling Heating	m³/min	P-Hi: 20 Hi: 15 Me: 13 Lo: 10	75 73
Available oute	rnal static pressure	rieating	Pa	Standard: 35 Max: 100	0
Outside air int	· · · · · · · · · · · · · · · · · · ·		Fa	Possible	_
			+ +		_
Air filter, Qualit	<u> </u>			Procure locally	
Shock & vibra			1	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor
Electric heater	1		W	_	20 (Crank case heater)
Operation	Remote control				5,RCH-E3 Wireless : RCN-KIT4-E2
control	Room temperature control			Thermostat b	by electronics
	Operation display				_
Safety equipm	ents			Frost protecti Internal thermos	tion for fan motor on thermostat stat for fan motor emperature protection
	Refrigerant piping size (O.D)	Liquid line Gas line	mm		① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8")
	Connecting method	1		Flare piping	Flare piping
Installation	Insulation for piping				Liquid & Gas lines)
data	Refrigerant line (one way) leng	th	m		x.50
	Vertical height diff. between O/U a		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)
	Drain hose		- "	Hose connectable VP25 (I.D.25, O.D.32)	Hole size φ 20 x 3pcs
Drain pump, n	<u> </u>		mm	Built-in drain pump, 600	— Hole size φ 20 x 3μcs
			mm		ļ
Recommende			A		_
,	rotor ampere)		A		i.0
Interconnectin	g wires Size x C	ore number		<u> </u>	Terminal block (Screw fixing type)
IP number				IPX0	IP24
Standard acce	essories			Mounting kit, Drain hose	_
Option parts			1 1	Filter set : LIM-FL 2FF	Motion sensor : LB-KIT

Item	Indoor air t	emperature	Outdoor air	temperature	External static pressure	Standards
Operation	DB	WB	DB	WB	of indoor unit	Staridards
Cooling	27°C	19°C	35°C	24°C	35Pa	ISO5151-T1
Heating	20°C	_	7°C	6°C	SSFa	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
- (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together. (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U (8) Static pressure of option air filter "UM-FL2EF" is 5Pa initially.

- (9) The external static pressure setting can be changed to 10-100Pa. (For RC-EX3A and RC-E5 only)

			Model	FDUM125	VSAWPVH
Item				Indoor unit FDUM60VH (2 units)	Outdoor unit FDC125VSA-W
Power source				3 Phase, 380-415\	/ 50Hz / 380V 60Hz
	Nominal cooling capacity (rang	ie)	kW	12.5 [5.0(Min	.) - 14.0(Max.)]
	Nominal heating capacity (range		kW	- '	.) - 16.0(Max.)]
		Cooling			53
	Power consumption	Heating	kW		52
	Max power consumption	1.1049			.20
	Wax power consumption	Cooling	1		/ 7.0
	Running current		- A		/ 5.5
	Inrush current, max current	Heating	- ^ -		
Operation	inrush current, max current	To 11	1		17
data	Power factor	Cooling	- % -		98
		Heating			97
	EER	Cooling	.		76
	COP	Heating		3.	98
	Sound power level	Cooling	_	60	71
	Souria power level	Heating		00	<i>I</i> 1
	0	Cooling	dB(A)	Dillion His od Mar on Lar of	54
	Sound pressure level	Heating	7 1	P-Hi: 36 Hi: 31 Me: 28 Lo: 25	56
	Silent mode sound pressure le	vel	7 i	_	48 / 45 (Normal/Silent)
Exterior dimer	sions (Height x Width x Depth)		mm	280 × 950 × 635	845 × 970 × 370
Exterior appea			1 1		Stucco white
(Munsell color				_	(4.2Y7.5/1.1) near equivalent
(RAL color)	,				(RAL 7044) near equivalent
Net weight			kg	34	78
Compressor ty	/ne & O'tv		1 1		RMT5126SWP4 (Twin rotary type)×1
	notor (Starting method)		kW		Direct line start
			L		0.9 (M-MB75)
Refrigerant oil (Amount, type) Refrigerant (Type, amount, pre-charge length)			_	P22 2 2 in outdoor unit (Incl. th	e amount for the piping of 30m)
<u> </u>	71 71 0 7		kg	Louver fin & inner grooved tubing	
Heat exchange			1		M shape fin & inner grooved tubing
Refrigerant control				pansion valve	
Fan type & Q't	<u> </u>			Centrifugal fan ×2	Propeller fan ×1
Fan motor (Sta	arting method)	,	W	130 < Direct line start >	86 < Direct line start >
Air flow		Cooling	m³/min	P-Hi: 20 Hi: 15 Me: 13 Lo: 10	75
7 1.0 1.		Heating	,		73
Available exter	rnal static pressure		Pa	Standard: 35 Max: 100	0
Outside air int	ake			Possible	_
Air filter, Qualit	y / Quantity			Procure locally	_
Shock & vibra	tion absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor
Electric heater			W	_	20 (Crank case heater)
	Remote control			(Option) Wired: RC-EX3A,RC-E5	,RCH-E3 Wireless : RCN-KIT4-E2
Operation	Room temperature control			Thermostat b	by electronics
control	Operation display		1	-	. <u>*</u> =
			1	Overload protect	tion for fan motor
Cafatria					on thermostat
Safety equipm	lents				stat for fan motor
					emperature protection
	Refrigerant piping size (O.D)	Liquid line	mm		① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8")
	Listing Grant Piping Gize (O.D)	Gas line		ϕ 12.7 (1/2") $@\phi$ 12.7(1/2")x0.8	① φ 15.88(5/8")x1.0 φ 15.88 (5/8")
lastallation	Connecting method			Flare piping	Flare piping
Installation data	Insulation for piping			Necessary (both	Liquid & Gas lines)
uaia	Refrigerant line (one way) leng	th	m	Ma	x.50
	Vertical height diff. between O/U a		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)
	Drain hose			Hose connectable VP25 (I.D.25, O.D.32)	Hole size φ 20 x 3pcs
Drain pump, n			mm	Built-in drain pump, 600	—
Recommende			A		
	I rotor ampere)		A		i.0
,		ore number	1 ^		
Interconnectin	y wires Size X Co	ore mumber		<u> </u>	Terminal block (Screw fixing type)
IP number				IPX0	IP24 _
Standard accessories					
Standard acce	essories			Mounting kit, Drain hose	Motion sensor : LB-KIT

Item	Indoor air t	emperature	Outdoor air	temperature	External static pressure	Standards
Operation	DB	WB	DB	WB	of indoor unit	Standards
Cooling	27°C	19°C	35°C	24°C	35Pa	ISO5151-T1
Heating	20°C	_	7°C	6°C	SSFA	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
- (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together. (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U (8) Static pressure of option air filter "UM-FL2EF" is 5Pa initially.

- (9) The external static pressure setting can be changed to 10-100Pa. (For RC-EX3A and RC-E5 only)

			Model	FDUM140	VNAWTVH
Item				Indoor unit FDUM71VH (2 units)	Outdoor unit FDC140VNA-W
Power source				1 Phase, 220 - 240	V 50Hz / 220V 60Hz
	Nominal cooling capacity (range	ie)	kW		.) - 14.5(Max.)]
	Nominal heating capacity (range	ie)	kW	15.5 [4.0(Min	.) - 16.5(Max.)]
		Cooling			02
	Power consumption	Heating	d kW d		20
	Max power consumption	1	- ····		40
	max porror consumption	Cooling	1		/ 23.5
	Running current	Heating	1 A		/ 19.7
	Inrush current, max current	Treating	- ^ -		27
Operation	Illiusii current, max current	Cooling			
data	Power factor	Cooling	- %		7
		Heating			77
	EER	Cooling	- -		71
	COP	Heating		3.	69
	Sound power level	Cooling	_	65	72
	Courta power level	Heating	_		73
	Sound pressure level	Cooling	dB(A)	P-Hi: 38 Hi: 33 Me: 29 Lo: 25	56
	Sourid pressure level	Heating		F-FII. 30 FII. 33 We. 29 LO. 23	58
	Silent mode sound pressure le	vel	7 [_	49 / 45 (Normal/Silent)
Exterior dimer	sions (Height x Width x Depth)		mm	280 × 950 × 635	845 × 970 × 370
Exterior appea	ırance		1		Stucco white
(Munsell color				_	(4.2Y7.5/1.1) near equivalent
(RAL color)	,				(RAL 7044) near equivalent
Net weight			kg	34	77
Compressor to	pe & Q'tv		1 1	_	RMT5126SWP3 (Twin rotary type)×1
<u> </u>	notor (Starting method)		kW		Direct line start
	(Amount, type)		L		0.9 (M-MB75)
Refrigerant (Type, amount, pre-charge length)			kg	P32 3 3 in outdoor unit (Incl. th	e amount for the piping of 30m)
Heat exchang	,, ,, <u>, , , , , , , , , , , , , , , , </u>		, kg	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant control		1			
			+ +		pansion valve
Fan type & Q'	<u> </u>		1	Centrifugal fan ×2	Propeller fan ×1
Fan motor (Sta	arting method)		W	130 < Direct line start >	86 < Direct line start >
Air flow		Cooling	m³/min	P-Hi: 24 Hi: 19 Me: 15 Lo: 10	75
7 11011		Heating	,		73
Available exte	rnal static pressure		Pa	Standard: 35 Max: 100	0
Outside air int	ake			Possible	_
Air filter, Quali	y / Quantity			Procure locally	_
Shock & vibra	tion absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor
Electric heater			W	_	20 (Crank case heater)
	Remote control			(Option) Wired: RC-EX3A,RC-E5	i,RCH-E3 Wireless : RCN-KIT4-E2
Operation	Room temperature control			Thermostat b	by electronics
control	Operation display		1		=
	терения инфину		1	Overload protect	tion for fan motor
0-6-6					on thermostat
Safety equipm	ients			Internal thermos	stat for fan motor
				Abnormal discharge t	emperature protection
	Refrigerant piping size (O.D)	Liquid line	mm	I/U ϕ 9.52 (3/8") ② ϕ 9.52(3/8")x0.8	① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8")
	Tromgerant piping size (O.D)	Gas line		φ 15.88 (5/8") ② φ 15.88(5/8")x1.0	① φ 15.88(5/8")x1.0 φ 15.88 (5/8")
	Connecting method			Flare piping	Flare piping
Installation	Insulation for piping			Necessary (both	Liquid & Gas lines)
data	Refrigerant line (one way) leng	th	m	Ma	x.50
	Vertical height diff. between O/U a		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)
	Drain hose		-	Hose connectable VP25 (I.D.25, O.D.32)	Hole size ϕ 20 x 3pcs
Drain pump, n			mm	Built-in drain pump, 600	——————————————————————————————————————
Recommende			+ +		<u> </u>
	·		A		,
,	I rotor ampere)		A		i.O
Interconnectin	g wires Size x C	ore number		•	Terminal block (Screw fixing type)
IP number				IPX0	IP24
Standard accessories					
Standard acce	essories		1 1	Mounting kit, Drain hose	Motion sensor : LB-KIT

* *		_				
Item	Indoor air t	emperature	Outdoor air	temperature	External static pressure	Standards
Operation	DB	WB	DB	WB	of indoor unit	Staridards
Cooling	27°C	19°C	35°C	24°C	35Pa	ISO5151-T1
Heating	20°C	_	7°C	6°C	33Fa	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
- (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together. (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U (8) Static pressure of option air filter "UM-FL2EF" is 5Pa initially.

- (9) The external static pressure setting can be changed to 10-100Pa. (For RC-EX3A and RC-E5 only)

			Model	FDUM140	VSAWPVH	
Item				Indoor unit FDUM71VH (2 units)	Outdoor unit FDC140VSA-W	
Power source				3 Phase, 380 - 415	5V 50Hz / 380V 60H	
	Nominal cooling capacity (range	ie)	kW	13.6 [5.0(Min	i.) - 14.5(Max.)]	
	Nominal heating capacity (range	· /	kW		i.) - 16.5(Max.)]	
		Cooling			.02	
	Power consumption	Heating	d k₩ b		20	
	Max power consumption	1	'''		1.20	
	Max power concumption	Cooling	1		/ 7.9	
	Running current	Heating	H A		/ 6.4	
	Inrush current, max current	rieating	-l ^ -l			
Operation	mrusm current, max current	0 15			18	
data	Power factor	Cooling	- % -		97	
		Heating			99	
	EER	Cooling	_		.71	
	COP	Heating		3.	69	
	Sound power level	Cooling		65	72	
	Souria power lever	Heating			73	
	0	Cooling	dB(A)	D. H. 00 H. 00 May 00 Lay 05	56	
	Sound pressure level	Heating	1	P-Hi: 38 Hi: 33 Me: 29 Lo: 25	58	
	Silent mode sound pressure le	vel	1 1	_	49 / 45 (Normal/Silent)	
Exterior dimer	nsions (Height x Width x Depth)		mm	280 × 950 × 635	845 × 970 × 370	
Exterior appea	. , ,				Stucco white	
(Munsell color				_	(4.2Y7.5/1.1) near equivalent	
(RAL color)	,				(RAL 7044) near equivalent	
Net weight			kg	34	78	
Compressor ty	vne & O'tv		, ng		RMT5126SWP4 (Twin rotary type)×1	
<u> </u>	notor (Starting method)		kW		Direct line start	
			L	-	0.9 (M-MB75)	
Refrigerant oil (Amount, type) Refrigerant (Type, amount, pre-charge length)				DOO O O in a vitala an vinit (local, the	, ,	
- (, , , , , , , , , , , , , , , , , , , 		kg		ne amount for the piping of 30m)	
Heat exchanger		1 1	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing		
Refrigerant control				pansion valve		
Fan type & Q't	<u></u>			Centrifugal fan ×2	Propeller fan ×1	
Fan motor (Sta	arting method)		W	130 < Direct line start >	86 < Direct line start >	
Air flow		Cooling	m³/min	P-Hi: 24 Hi: 19 Me: 15 Lo: 10	75	
All now		Heating	/	1 111. 24 111. 13 1016. 13 26. 10	73	
Available exter	rnal static pressure		Pa	Standard: 35 Max: 100	0	
Outside air int	ake			Possible	_	
Air filter, Qualit	ty / Quantity			Procure locally	_	
Shock & vibra	tion absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor	
Electric heater	r		W	_	20 (Crank case heater)	
	Remote control			(Option) Wired: RC-EX3A.RC-E5	RCH-E3 Wireless : RCN-KIT4-E2	
Operation	Room temperature control				by electronics	
control	Operation display		1		_	
	Орогалогі споріску			Overload protect	tion for fan motor	
					ion thermostat	
Safety equipm	nents				stat for fan motor	
				Abnormal discharge t	temperature protection	
	Refrigerant piping size (O.D)	Liquid line	mm	I/U φ 9.52 (3/8") ②φ 9.52(3/8")x0.8	① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8")	
	Tremgerant piping size (O.D)	Gas line	mm	φ 15.88 (5/8") ②φ 15.88(5/8")x1.0	① φ 15.88(5/8")x1.0 φ 15.88 (5/8")	
	Connecting method			Flare piping	Flare piping	
	stallation ————————————————————————————————————		1	Necessary (both Liquid & Gas lines)		
Installation	Insulation for piping			Max.50		
Installation data	110	th	m			
	Refrigerant line (one way) leng		+	Ma		
	Refrigerant line (one way) leng Vertical height diff. between O/U a		m m	Ma Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)	
data	Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose		m	Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32)	Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs	
data Drain pump, n	Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose nax lift height		m	Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump , 600	Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs —	
Drain pump, n	Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose nax lift height d breaker size		m mm A	Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump , 600	Max.15 (Outdoor unit is lower) Hole size ϕ 20 x 3pcs —	
Drain pump, n Recommende L.R.A. (Locket	Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose nax lift height d breaker size d rotor ampere)	nd I/U	m	Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump , 600	Max.15 (Outdoor unit is lower) Hole size ϕ 20 x 3pcs - - 5.0	
Drain pump, n Recommende L.R.A. (Locked Interconnection	Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose nax lift height d breaker size d rotor ampere)		m mm A	Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump , 600 φ 1.6mm×3 cores + earth cable /	Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs - 6.0 / Terminal block (Screw fixing type)	
Drain pump, n Recommende L.R.A. (Locked Interconnectin IP number	Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose nax lift height d breaker size d rotor ampere) ng wires Size x Co	nd I/U	m mm A	Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump , 600 5 φ 1.6mm×3 cores + earth cable / IPX0	Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs — 5.0 / Terminal block (Screw fixing type)	
Drain pump, n Recommende L.R.A. (Locked Interconnection	Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose nax lift height d breaker size d rotor ampere) ng wires Size x Co	nd I/U	m mm A	Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump , 600 φ 1.6mm×3 cores + earth cable /	Max.15 (Outdoor unit is lower) Hole size ϕ 20 x 3pcs — 6.0 / Terminal block (Screw fixing type)	

Item	Indoor air t	emperature	Outdoor air	temperature	External static pressure	Standards
Operation	DB	WB	DB	WB	of indoor unit	Staridards
Cooling	27°C	19°C	35°C	24°C	35Pa	ISO5151-T1
Heating	20°C	_	7°C	6°C	35Fa	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
- (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together. (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U (8) Static pressure of option air filter "UM-FL2EF" is 5Pa initially.

- (9) The external static pressure setting can be changed to 10-100Pa. (For RC-EX3A and RC-E5 only)

(c) Triple type

ltem			Model				
indeer drift 12				` ,	, ,		
Power source				<u> </u>			
Nominal cooling capacity (range)							
	Nominal heating capacity (rang	ge)	kW	15.5 [4.0(Min.) - 16.5(Max.)]		
	Power consumption	Cooling		5.0	02		
	Fower consumption	Heating	kW	Indoor unit FDUM50VH (3 units) 1 Phase, 220 - 240V § W 13.6 [5.0(Min.) - W 15.5 [4.0(Min.) - 5.02 W 4.20	20		
	Max power consumption		1 Phase, 220 - 240V 50Hz / kW 13.6 [5.0(Min.) - 14.5(Nin.) - 16.5(Nin.) - 16.5(Ni	40			
		Cooling		22.5	23.5		
	Running current	Heating					
	Inrush current, max current		┦ '' ├				
Operation	madri darroni, max darroni	Cooling	+				
data	Power factor	Heating	- % -				
	EER	<u> </u>		·			
	COP	Cooling	- -				
	СОР	Heating		3.1			
	Sound power level	Cooling	_	60	72		
	Courte portor tovor	Heating	_ _		73		
	Sound procesure level	Cooling	dB(A)	D Hi: 27 Hi: 22 Ma: 20 Lo: 26	56		
	Sound pressure level	Heating		F-HI. 37 HI. 32 Me. 29 LO. 20	58		
	Silent mode sound pressure le	vel	7 [_	49 / 45 (Normal/Silent)		
xterior dimer	nsions (Height x Width x Depth)		mm	280 × 750 × 635	845 × 970 × 370		
Exterior appea					Stucco white		
(Munsell color				_	(4.2Y7.5/1.1) near equivalent		
RAL color)	,				(RAL 7044) near equivalent		
Net weight			ka	29	77		
	vne & ∩'tv		i iig		RMT5126SWP3 (Twin rotary type)×1		
Compressor type & Q'ty Compressor motor (Starting method)		Is\A/		Direct line start			
· ·							
	(Amount, type)				0.9 (M-MB75)		
	ype, amount, pre-charge length)		kg		, , ,		
Heat exchange	er			<u> </u>	M shape fin & inner grooved tubing		
Refrigerant co	ntrol			Electronic exp	pansion valve		
an type & Q't	ty			Centrifugal fan ×1	Propeller fan ×1		
an motor (Sta	arting method)		W	100 < Direct line start >	86 < Direct line start >		
A : £1		Cooling	34	D 15:40 15:40 May 0 1 av 0	75		
Air flow		Heating	m ^o /min	P-Hi: 13 Hi: 10 Me: 9 Lo: 8	73		
Available exter	rnal static pressure		Pa	Standard: 35 Max: 100	0		
Outside air inta			1 1 1				
Air filter, Qualit							
Shock & vibrat	· · · · · · · · · · · · · · · · · · ·		+	•	Rubber sleeve (for fan motor & compress		
			10/	Rubbel sleeve (for fail filotor)	,		
Electric heater	· · · · · · · · · · · · · · · · · · ·		VV	— 20 (Crank case heater) (Option) Wired: RC-EX3A,RC-E5,RCH-E3 Wireless: RCN-KIT4-E2			
Operation	Remote control				,		
Operation Room temperature control				Thermostat b	by electronics		
control	Operation display			-	_		
control	Operation display						
control	Operation display						
	, , , , , , , , , , , , , , , , , , , ,			Frost protection	on thermostat		
control Safety equipm	, , , , , , , , , , , , , , , , , , , ,			Frost protection Internal thermost	on thermostat stat for fan motor		
	, , , , , , , , , , , , , , , , , , , ,	Liquid the		Frost protecti Internal thermos Abnormal discharge t	on thermostat stat for fan motor emperature protection		
	, , , , , , , , , , , , , , , , , , , ,	Liquid line	_ mm -	Frost protection Internal thermost Abnormal discharge to I/U \$\phi\$ 6.35 (1/4") \$\overline{2}\phi\$ 9.52(3/8")x0.8	on thermostat stat for fan motor emperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8")		
	nents Refrigerant piping size (O.D)	Liquid line Gas line	_ mm _	Frost protecting Internal thermos Abnormal discharge to I/U φ 6.35 (1/4") ②φ 9.52(3/8")x0.8 φ 12.7 (1/2") ②φ 12.7(1/2")x0.8	on thermostat stat for fan motor emperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8")		
Safety equipm	Refrigerant piping size (O.D) Connecting method		mm -	Frost protecting Internal thermost Abnormal discharge to I/U φ 6.35 (1/4") ②φ 9.52(3/8")x0.8 φ 12.7 (1/2") ②φ 12.7(1/2")x0.8 Flare piping	on thermostat stat for fan motor emperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping		
Safety equipm	Refrigerant piping size (O.D) Connecting method Insulation for piping	Gas line		Frost protecting Internal thermost Abnormal discharge to I/U φ 6.35 (1/4") ②φ 9.52(3/8")x0.8 φ 12.7 (1/2") ②φ 12.7(1/2")x0.8 Flare piping Necessary (both I	on thermostat stat for fan motor emperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping .iquid & Gas lines)		
Safety equipm	Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) leng	Gas line		Frost protecting Internal thermost Abnormal discharge to I/U \$\phi\$ 6.35 (1/4") \$\hat{2}\phi\$ 9.52(3/8")x0.8 \$\phi\$ 12.7 (1/2") \$\hat{2}\phi\$ 12.7(1/2")x0.8 \$\text{Flare piping}\$ Necessary (both I Maximum)	on thermostat stat for fan motor emperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping iquid & Gas lines) x.50		
Safety equipm	Refrigerant piping size (O.D) Connecting method Insulation for piping	Gas line	m	Frost protecting Internal thermost Abnormal discharge to I/U \$\phi\$ 6.35 (1/4") \$\hat{2}\phi\$ 9.52(3/8")x0.8 \$\phi\$ 12.7 (1/2") \$\hat{2}\phi\$ 12.7(1/2")x0.8 \$\text{Flare piping}\$ Necessary (both I Maximum)	on thermostat stat for fan motor emperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping .iquid & Gas lines)		
Safety equipm	Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) leng	Gas line	m	Frost protecting Internal thermost Abnormal discharge to I/U \$\phi\$ 6.35 (1/4") \$\hat{2}\phi\$ 9.52(3/8")x0.8 \$\phi\$ 12.7 (1/2") \$\hat{2}\phi\$ 12.7(1/2")x0.8 \$\hat{2}\phi\$ Flare piping Necessary (both I Max. 50 (Outdoor unit is higher)	on thermostat stat for fan motor emperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping iquid & Gas lines) x.50		
Safety equipm	Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose	Gas line	m m	Frost protection Internal thermost Abnormal discharge to Management of the Max.50 (Outdoor unit is higher) Frost protection Internal thermost Abnormal discharge to Max.50 (Outdoor unit is higher) Frost protection internal thermost Abnormal Max.50 (Outdoor unit is higher) Frost protection internal thermost Max.50 (1/4") (2 \theta 9.52(3/8") x0.8 (2 \theta 1.2")	on thermostat stat for fan motor emperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping iquid & Gas lines) x.50 Max.15 (Outdoor unit is lower)		
safety equipm nstallation lata	Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose max lift height	Gas line	m m	Frost protecting Internal thermost Abnormal discharge to Abnormal discharge to I/U \$\phi\$ 6.35 (1/4") \$\hat{2}\phi\$ 9.52(3/8")x0.8 \$\phi\$ 12.7 (1/2") \$\hat{2}\phi\$ 12.7(1/2")x0.8 \$\hat{2}\phi\$ Flare piping Necessary (both I Max. 50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump, 600	on thermostat that for fan motor emperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping Liquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs —		
Safety equipm nstallation lata Drain pump, m	Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose nax lift height d breaker size	Gas line	m m m	Frost protecting Internal thermost Abnormal discharge to Abnormal discharge to I/U \$\phi\$ 6.35 (1/4") \$\hat{2}\phi\$ 9.52(3/8")x0.8 \$\phi\$ 12.7 (1/2") \$\hat{2}\phi\$ 12.7(1/2")x0.8 \$\phi\$ Flare piping Necessary (both I Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump , 600	on thermostat stat for fan motor emperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ② φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping iquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs		
Safety equipm nstallation data Drain pump, m Recommender	Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose nax lift height d breaker size d rotor ampere)	Gas line gth and I/U	m m m	Frost protecting Internal thermost Abnormal discharge to Abnormal discharge to I/U \$\phi\$ 6.35 (1/4") \$\hat{2}\phi\$ 9.52(3/8")x0.8 \$\phi\$ 12.7 (1/2") \$\hat{2}\phi\$ 12.7 (1/2")x0.8 \$\phi\$ Flare piping Necessary (both I Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump , 600	on thermostat stat for fan motor emperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ② φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping iquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs —		
nstallation data Drain pump, maccommenderR.A. (Locked interconnectin	Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose nax lift height d breaker size d rotor ampere)	Gas line	m m m	Frost protection Internal thermost Abnormal discharge to Abnormal discharge to I/U \$\phi\$ 6.35 (1/4") \$\hat{2}\phi\$ 9.52(3/8")x0.8 \$\phi\$ 12.7 (1/2") \$\hat{2}\phi\$ 12.7(1/2")x0.8 \$\phi\$ Flare piping Necessary (both I Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump , 600 \$\phi\$ 1.6mmx3 cores + earth cable /	on thermostat stat for fan motor emperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ② φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping iquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs — — — — — — — — — — — — — — — — — —		
nstallation data Drain pump, m RecommendeeR.A. (Lockec nterconnectin P number	Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose nax lift height d breaker size d rotor ampere) g wires Size x C	Gas line gth and I/U	m m m	Frost protection Internal thermost Abnormal discharge to Abnormal discharge to I/U \$\phi\$ 6.35 (1/4") \$\hat{2}\phi\$ 9.52(3/8")x0.8 \$\phi\$ 12.7 (1/2") \$\hat{2}\phi\$ 12.7(1/2")x0.8 \$\phi\$ Flare piping Necessary (both I Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump , 600 5 \$\phi\$ 1.6mmx3 cores + earth cable / IPX0	on thermostat stat for fan motor emperature protection ① φ 9.52(3/8")×0.8 O/U φ 9.52 (3/8") ② φ 15.88(5/8")×1.0 φ 15.88 (5/8") Flare piping iquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs —		
Safety equipm installation data Drain pump, m	Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose nax lift height d breaker size d rotor ampere) g wires Size x C	Gas line gth and I/U	m m m	Frost protecting Internal thermost Abnormal discharge to Abnormal discharge to I/U \$\phi\$ 6.35 (1/4") \$\hat{2}\phi\$ 9.52(3/8")x0.8 \$\phi\$ 12.7 (1/2") \$\hat{2}\phi\$ 12.7(1/2")x0.8 \$\phi\$ Flare piping Necessary (both I Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump , 600 \$\phi\$ 1.6mmx3 cores + earth cable / IPX0 Mounting kit, Drain hose	on thermostat stat for fan motor emperature protection ① ϕ 9.52(3/8")x0.8 O/U ϕ 9.52 (3/8") ① ϕ 15.88(5/8")x1.0 ϕ 15.88 (5/8") Flare piping Liquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size ϕ 20 x 3pcs ———————————————————————————————————		

Notes (1) The data are measured at the following conditions.

Item	Indoor air t	emperature	Outdoor air temperature		External static pressure	Standards
Operation	DB	WB	DB	WB	of indoor unit	Staridards
Cooling	27°C	19°C	35°C	24°C	35Pa	ISO5151-T1
Heating	20°C	_	7°C	6°C	35Fa	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
- (6) Indoor unit specifications for one unit. Capacity and operation data is three indoor units are combined and run together.

 (7) Branching pipe set "DIS-TA1G"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U

 (8) Static pressure of option air filter "UM-FL1EF" is 5Pa initially.

- (9) The external static pressure setting can be changed to 10-100Pa. (For RC-EX3A and RC-E5 only)

f f f Operation	Nominal cooling capacity (rang		Model	FDUM140	VSAWTVH			
I Properation					Outdoor unit FDC140VSA-W			
f f f Operation					3 Phase, 380-415V 50Hz / 380V 60Hz			
F Operation		je)	kW	13.6 [5.0(Min	.) - 14.5(Max.)]			
I Properation	Nominal heating capacity (rang	je)	kW	15.5 [4.0(Min	.) - 16.5(Max.)]			
I Properation	Power consumption	Cooling		5.	02			
Operation I	1 Ower consumption	Heating	kW	4.	20			
Operation	Max power consumption			10	.20			
Operation	Divining a summent	Cooling		7.5	/ 7.9			
Operation	Running current	Heating	A	6.1	/ 6.4			
	Inrush current, max current		1 [5,	18			
uala	I Cooling		0,6	g	97			
 	Power factor	Heating	%	g	99			
Ī	EER	Cooling		2.	71			
(COP	Heating	1	3.	69			
		Cooling			72			
18	Sound power level	Heating	1	60	73			
		Cooling	dB(A)		56			
(Sound pressure level	Heating	- ""	P-Hi: 37 Hi: 32 Me: 29 Lo: 26	58			
	Silent mode sound pressure le		-		49 / 45 (Normal/Silent)			
	ions (Height x Width x Depth)	V 01	mm	280 × 750 × 635	845 × 970 × 370			
Exterior appeara	1 /			200 × 100 × 000	Stucco white			
(Munsell color) (RAL color)	ai ice			-	(4.2Y7.5/1.1) near equivalent (RAL 7044) near equivalent			
Net weight			kg	29	78			
Compressor type & Q'ty		n.g	-	RMT5126SWP4 (Twin rotary type)×1				
Compressor motor (Starting method)		kW		Direct line start				
Refrigerant oil (A	\		L		0.9 (M-MB75)			
<u> </u>	pe, amount, pre-charge length)		kg	B32.3.3 in outdoor unit (Incl. th	e amount for the piping of 30m)			
Heat exchanger			ing in	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing			
Refrigerant contr					pansion valve			
Fan type & Q'ty				Centrifugal fan ×1	Propeller fan ×1			
Fan motor (Starti	ting method)		w	100 < Direct line start >	86 < Direct line start >			
Tarrinotor (Starti	ung metriou)	Cooling		100 \ Direct line start >	75			
Air flow		Heating	m³/min	P-Hi: 13 Hi: 10 Me: 9 Lo: 8	73			
	al static pressure		Pa	Standard: 35 Max: 100	0			
Outside air intak				Possible	_			
Air filter, Quality	<u> </u>			Procure locally	_			
Shock & vibration	on absorber			Rubber sleeve (for fan motor) Rubber sleeve (for fan motor & co				
Electric heater			W	_	20 (Crank case heater)			
Operation -	Remote control			(Option) Wired: RC-EX3A,RC-E5,RCH-E3 Wireless: RCN-KIT4-E2				
control L	Room temperature control			Thermostat b	by electronics			
10	Operation display			<u>-</u>				
	nts			Frost protecti Internal thermos	tion for fan motor on thermostat stat for fan motor temperature protection			
Safety equipmen	Refrigerant piping size (O.D)	Liquid line Gas line	mm	, , , , , , , , , , , , , , , , , , , ,	① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8")			
Safety equipmen	Treingerant piping size (O.D)			Flare piping	Flare piping			
Safety equipmer	Connecting method	<u> </u>		Necessary (both				
Safety equipmer				Max.50				
Safety equipmer Installation In	Connecting method Insulation for piping	th	m	Ma				
Safety equipmer	Connecting method Insulation for piping Refrigerant line (one way) leng		m m		x.50			
Safety equipmer Installation Indata Indicate Ind	Connecting method Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a		+ +	Max.50 (Outdoor unit is higher)	x.50 Max.15 (Outdoor unit is lower)			
Safety equipmer Installation Idata I	Connecting method Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose		m	Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32)	x.50 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs			
Safety equipmer Installation I	Connecting method Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose x lift height		m	Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump, 600	x.50 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs —			
Safety equipmer Installation I	Connecting method Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose x lift height breaker size		m mm A	Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump , 600	x.50 Max.15 (Outdoor unit is lower) Hole size ϕ 20 x 3pcs —			
Safety equipmer Installation I	Connecting method Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose x lift height breaker size otor ampere)	nd I/U	m	Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump , 600	x.50 Max.15 (Outdoor unit is lower) Hole size ϕ 20 x 3pcs - 6.0			
Safety equipmer Installation I	Connecting method Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose x lift height breaker size otor ampere)		m mm A	Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump , 600 σ σ σ σ 1.6mm×3 cores + earth cable σ	x.50 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs - 5.0 / Terminal block (Screw fixing type)			
Safety equipmer Installation I	Connecting method Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose x lift height breaker size otor ampere) wires Size x Co	nd I/U	m mm A	Max.50 (Outdoor unit is higher) Hose connectable VP25 (I.D.25, O.D.32) Built-in drain pump , 600	x.50 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs - - - - - - - - - - - - -			

		-				
Item	Indoor air temperature Outdoor air temperature Ex		External static pressure	Standards		
Operation	DB	WB	DB	WB	of indoor unit	Staridards
Cooling	27°C	19°C	35°C	24°C	35Pa	ISO5151-T1
Heating	20°C	_	7°C	6°C	33Fa	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
- (6) Indoor unit specifications for one unit. Capacity and operation data is three indoor units are combined and run together. (7) Branching pipe set "DIS-TA1G"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U (8) Static pressure of option air filter "UM-FL1EF" is 5Pa initially.

- (9) The external static pressure setting can be changed to 10-100Pa. (For RC-EX3A and RC-E5 only)

(5) Ceiling suspended type (FDE)

(a) Single type

Power source	unit FDC100VNA-W	V 50Hz / 220\	INDOOR WHILE PUE TOOVE				
Nominal cooling capacity (range) kW 10.0 (4.0(Min.) - 11.2(Max.))	HZ		4 Di 000 040				
Nominal heating capacity (range) Nominal heating capacity (range) Power consumption Cooling Heating Running current Heating A 12.4 / 13.0 11.2 (4.13.0		า) - 11 2(Max)					
Power consumption					Nominal heating capacity (range)		
Power consumption				kW		Nominal heating capacity (rang	
Heating KW					Cooling	Power consumption	
Running current Cooling Heating A 12.4 / 13.0		.54	2.	Indoor unit FDE100VH 1 Phase, 220		T GWGF GGFFGGFFF	
Hunning current Heating A 5,24		.40	Indoor unit FDE100VH 1 Phase, 220 - 24 kW 10.0 [4.0(M kW 11.2 [4.0(M 10.0(M 10.0(Max power consumption		
Peating		/ 14.4	13.8		Cooling		
Inrush current, max current		/ 13.0	12.4	1 A F	Running current Heating Inrush current, max current		
Depart D		. 24	5.	1			
Power factor				 	Cooling		
EER				% -		Power factor	data
COP Heating Sound power level Cooling Heating Sound pressure level Heating Silent mode sound pressure level				 	<u> </u>	FED	
Sound power level Heating Sound pressure level Cooling Heating Silent mode sound pressure level The properties of the pr							
Sound pressure level Heating Gooling Heating Heating Silent mode sound pressure level Cooling Heating Silent mode sound pressure level		.41	4.	.	<u> </u>	СОР	
Heating Sound pressure level Cooling Heating Silent mode sound pressure level —	69		64]		Sound power level	
Sound pressure level Heating Silent mode sound pressure level Heating Silent mode sound pressure level —	70		<u> </u>	l L	Heating	Country power love.	
Heating	54		D Hi: 49 Hi: 42 Mo: 29 Lo: 24	dB(A)	Cooling	Cound procesure level	
Exterior dimensions (Height x Width x Depth) mm 250 x 1,620 x 690 848	55		г-пі. 40 пі. 43 IVIE: 38 LO: 34		Heating	Souria pressure level	
Exterior appearance Munsell color Plaster white (6.8Y8.9/0.2) near equivalent (4.2Y7.5 RAL color)	44(Normal/Silent)	4	_	1	vel	Silent mode sound pressure lev	
Plaster white (6.8Y8.9/0.2) near equivalent (4.2Y7.5 RAL color) (RAL 9003) near equivalent (4.2Y7.5 REAL color) (RAL 9003) near equivalent (4.2Y7.5 REAL color) (RAL 9003) near equivalent (4.2Y7.5 REAL color) (RAL 9003) near equivalent (RAL 70 REAL color) (RAL 9003) near equivalent (RAL 70 REAL 70 REAL color) (RAL 9003) near equivalent (RAL 70 REAL 70 REA	45 x 970 x 370		250 x 1.620 x 690	mm		nsions (Height x Width x Depth)	xterior dimen
Munsell color RAL 70. RAL	Stucco white	1	<u> </u>	1			
RAL color RAL 9003) near equivalent RAL 70 RAL 70 Refrigerant very let & Q'ty Refrigerant ontrol (Starting method) Refrigerant control Ref	5/1.1) near equivalent	(4.2)		1 1			
Net weight Kg	044) near equivalent			1 1		,	
Compressor type & Q'ty Compressor motor (Starting method) Refrigerant (Type, amount, type) Refrigerant (Type, amount, pre-charge length) Refrigerant Control Refrigerant control Refrigerant control Refrigerant control Refrigerant (Starting method) Refrigerant control Refrigerant static pressure Ref	77	(ka			· · · · · · · · · · · · · · · · · · ·
Compressor motor (Starting method) Refrigerant (Type, amount, type) Refrigerant (Type, amount, pre-charge length) Refrigerant control Flectronic expansion valve Fan type & Q'ty Fan motor (Starting method) Available external static pressure Dutside air intake Procket plastic net x2(Washable) Shock & vibration absorber Flectronic expansion valve Flectronic expansion valve Cooling Heating Pa O Not possible Rubber sleeve(for fan motor) Room temperature control Remote control Remote control Refrigerant piping size (O.D) Connecting method Refrigerant line (one way) length Refrigerant line (one way) length M MW FR32 3.3 in outdoor unit (Incl. the amount for the lendount for the leader of Cooling Room temperature control Refrigerant piping size (O.D) Connecting method Refrigerant line (one way) length M Max.50		DMTE10		, kg		una 8 Oltu	
Refrigerant oil (Amount, type) Refrigerant (Iype, amount, pre-charge length) Refrigerant (Type, amount, pre-charge length) Refrigerant (Type, amount, pre-charge length) Refrigerant (Type, amount, pre-charge length) Refrigerant control Refrigerant piping size (O.D) Refrigerant line (one way) length Refrigerant line (o		RIVITSTZ		1,147		-	<u> </u>
Refrigerant (Type, amount, pre-charge length) kg R32 3.3 in outdoor unit (Incl. the amount for the leat exchanger	Direct line start	1					
Louver fin & inner grooved tubing M shape fin Electronic expansion valve Electronic Electronic expansion valve Electronic expansion valve Electronic expansion valve Electronic expansion valve Electronic Electronic Electronic expansion and the Electronic expansion valve Electronic expansion electronic	0.9 (M-MB75)			L			
Refrigerant control Electronic expansion valve Ean type & Q'ty Contrifugal fan x4 Pr Cooling Heating P-Hi: 32 Hi: 26 Me: 21 Lo: 16.5 Revailable external static pressure Pa Outside air intake Not possible Coinck & vibration absorber Electric heater Operation Control Remote control Remote control Coperation Control Refrigerant piping size (O.D) Connecting method Refrigerant piping Refrigerant piping Refrigerant line (one way) length Refrigerant control Recontrol General Static pressure Refrigerant piping size (O.D) Connecting method Refrigerant line (one way) length	piping of 30m)	ne amount for	R32 3.3 in outdoor unit (Incl. th	kg		ype, amount, pre-charge length)	Refrigerant (Ty
Fan type & Q'ty Fan motor (Starting method) Air flow Cooling Heating P-Hi: 32 Hi: 26 Me: 21 Lo: 16.5 Available external static pressure Pa Outside air intake Not possible Shock & vibration absorber Electric heater Operation control Carefity equipments Refrigerant piping size (O.D) Connecting method Refrigerant line (one way) length Refrigerant line (one way) length Refrigerant line (one way) length M Refrigerant line (one way) length Refrigerant li	a & inner grooved tubing	M shap	Louver fin & inner grooved tubing			er	leat exchange
Fan motor (Starting method) Air flow Cooling Heating P-Hi: 32 Hi: 26 Me: 21 Lo: 16.5 Available external static pressure Pa 0 Outside air intake Not possible Air filter, Quality / Quantity Shock & vibration absorber Electric heater Operation control Coperation Control Remote control Room temperature control Operation display Asafety equipments Refrigerant piping size (O.D) Connecting method Connecting method Connecting method Insulation for piping Refrigerant line (one way) length M 80 < Direct line start > 86 < W 9-Hi: 32 Hi: 26 Me: 21 Lo: 16.5 P-Hi: 32 Hi: 26 Me: 21 Lo: 16.5 P-Hi: 32 Hi: 26 Me: 21 Lo: 16.5 Available external static pressure Pa 0 Overload protection of Pan motor Frost protection for fan motor Frost protection thermostat Internal thermostat for fan motor Abnormal discharge temperature protection for fan motor Frost protection for fan motor Abnormal discharge temperature protection for fan motor Abnormal discharge temperature Frost protection for fan motor Abnormal discharge temperature Frost protection f		kpansion valve	Electronic ex			ntrol	Refrigerant cor
Fan motor (Starting method) Air flow Cooling Heating P-Hi: 32 Hi: 26 Me: 21 Lo: 16.5 Available external static pressure Pa 0 Outside air intake Not possible Air filter, Quality / Quantity Shock & vibration absorber Electric heater Operation control Coperation Control Remote control Room temperature control Operation display Asafety equipments Refrigerant piping size (O.D) Connecting method Connecting method Connecting method Insulation for piping Refrigerant line (one way) length M 80 < Direct line start > 86 < W 9-Hi: 32 Hi: 26 Me: 21 Lo: 16.5 P-Hi: 32 Hi: 26 Me: 21 Lo: 16.5 P-Hi: 32 Hi: 26 Me: 21 Lo: 16.5 Available external static pressure Pa 0 Overload protection of Pan motor Frost protection for fan motor Frost protection thermostat Internal thermostat for fan motor Abnormal discharge temperature protection for fan motor Frost protection for fan motor Abnormal discharge temperature protection for fan motor Abnormal discharge temperature Frost protection for fan motor Abnormal discharge temperature Frost protection f	ropeller fan x1	Ì	Centrifugal fan x4			tv	an type & Q't
Air flow Cooling Heating M³/min P-Hi: 32 Hi: 26 Me: 21 Lo: 16.5	Direct line start >	8	<u> </u>	W		<u>, </u>	
Available external static pressure Available external static pressure Pa 0 Outside air intake Air filter, Quality / Quantity Chock & vibration absorber Electric heater Operation control Remote control Room temperature control Operation display Cafety equipments Refrigerant piping size (O.D) Connecting method Connecting method Connecting method Insulation for piping Refrigerant line (one way) length Meating P-Hi: 32 Hi: 26 Me: 21 Lo: 16.5 Pa 0 Overload possible Pocket plastic net x2(Washable) Rubber sleeve(for fan motor) Room temperature control Goverload protection for fan motor Abnormal discharge temperature pr	75	+	oo (Biroot iiilo otart)	 '' 	Cooling	arting motilody	an motor (oto
Available external static pressure Pa 0 Outside air intake Air filter, Quality / Quantity Shock & vibration absorber Electric heater Operation Control Control Remote control Asafety equipments Refrigerant piping size (O.D) Connecting method Refrigerant line (one way) length Remote control Remote control (Option) Wired: RC-EX3A, RC-E5, RCH-E3 Wire (Option) Wired: RC-EX3A, RC-E5, RCH-E	73		P-Hi: 32 Hi: 26 Me: 21 Lo: 16.5	m³/min			Air flow
Dutside air intake Air filter, Quality / Quantity Shock & vibration absorber Electric heater Departation control Remote control Remote control Remote control Room temperature control Operation display Cafety equipments Refrigerant piping size (O.D) Connecting method Connecting method Insulation for piping Refrigerant line (one way) length My — 20(Ci (Option) Wired: RC-EX3A, RC-E5, RCH-E3 Wire (Option) Wir		+			пеаші		
Air filter, Quality / Quantity Shock & vibration absorber Electric heater Operation control Remote control Remote control Remote control Room temperature control Operation display Overload protection for fan motor Frost protection thermostat Internal thermostat for fan motor Abnormal discharge temperature protein Refrigerant piping size (O.D) Connecting method Connecting method Insulation for piping Refrigerant line (one way) length Max.50 Remote control W - (Option) Wired: RC-EX3A, RC-E5, RCH-E3 Wire (Option) Wired: RC-EX3A, RC-E5,	0	-		Ра		· · · · · · · · · · · · · · · · · · ·	
Shock & vibration absorber Electric heater Operation control Remote control Remote control Remote control Remote control Room temperature control Operation display Overload protection for fan motor Frost protection thermostat Internal thermostat for fan motor Abnormal discharge temperature protection Refrigerant piping size (O.D) Connecting method Refrigerant line (one way) length Remote control (Option) Wired: RC-EX3A, RC-E5, RCH-E3 Wire (Option) Wire		·					
Remote control Thermostat by electronics						· · · · · · · · · · · · · · · · · · ·	
Remote control Remote control Room temperature control Room temperature control Room temperature control Room temperature control Thermostat by electronics	for fan motor & compres	Rubber sleeve(for fan motor) Rubber sleeve (for fan motor & cor				tion absorber	Shock & vibrat
Room temperature control Room temperature control Thermostat by electronics	rank case heater)	2	_	W		•	Electric heater
Pointrol Properture control Operation display Overload protection for fan motor Frost protection thermostat for fan motor Abnormal discharge temperature protection for fan motor fan motor fan motor fan	eless : RCN-E-E3	(Option) Wired: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-E-E3				Remote control	
Operation display Safety equipments Overload protection for fan motor Frost protection thermostat Internal thermostat for fan motor Abnormal discharge temperature protection method Refrigerant piping size (O.D) Liquid line Connecting method Gas line Oconnecting method Connecting method Insulation for piping Refrigerant line (one way) length Max.50						Room temperature control	
Overload protection for fan motor Frost protection thermostat Internal thermostat for fan motor Abnormal discharge temperature protection method Refrigerant piping size (O.D) Liquid line Connecting method Gas line Connecting method Gas line Connecting method Insulation for piping Refrigerant line (one way) length m Overload protection for fan motor Abnormal discharge temperature protection for fan motor fan		_				·	control
Refrigerant piping size (O.D) Liquid line Connecting method Gas line mm I/U \(\phi\) 9.52 (3/8") Pipe \(\phi\) 9.52 (3/8")x0.8 O.		ion thermosta stat for fan mo	Frost protect Internal thermos			nents	Safety equipm
Installation data Connecting method Insulation for piping Insulation for piping Refrigerant line (one way) length Max.50	D/U φ 9.52 (3/8")	52 (3/8")x0.8	I/U φ 9.52 (3/8") Pipe φ 9.5	mm	_ ·		
Installation data Insulation for piping Refrigerant line (one way) length Necessary (both Liquid & Gas lines Max.50	Flare piping	1		+	1		
Refrigerant line (one way) length m Max.50		Liquid & Cas !					nstallation
	<u>y</u>			- m	+h		data
i vertical neight diff, netween C/LL and I/LL I m I Max 5() (C)utdoor unit is higher) I Max 15 (C	Outstand 2.1.1.					1 1	
	Outdoor unit is lower)	+	Max.50 (Outdoor unit is higher)	m	na I/U		
	e size φ 20 x 3pcs		Hose connectable with VP20(O.D.26)			J	
Orain pump, max lift height mm —	_		<u> </u>	mm		nax lift height	rain pump, m
Recommended breaker size A —				А		d breaker size	Recommended
.R.A. (Locked rotor ampere) A 5.0		5.0	Ę			d rotor ampere)	R.A. (Locked
nterconnecting wires Size x Core number φ 1.6mm x 3 cores + earth cable / Terminal block (\$	Screw fixing type)				ore number	· · · · · · · · · · · · · · · · · · ·	•
P number IPX0	IP24	, 1311111111111111111		+ +	J. J. Harrison	- Joine A OC	
	1Г24	+					
Standard accessories Mounting kit, Drain hose	_			-		essones	
Option parts Motion sensor : LB-E	Motion sensor : LB-E						ption parts
Notes (1) The data are measured at the following conditions. The pipe length is 7.5m.		5m.	The pipe length is 7.5		wing conditions.	data are measured at the follow	lotes (1) The

mo pipo ionganio momi	
Standards	
Standards	

Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	-	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

			Model	FDE100	VSAWVH
Item				Indoor unit FDE100VH	Outdoor unit FDC100VSA-W
Power source	!			3 Phase, 380 - 415	V 50Hz / 380V 60Hz
	Nominal cooling capacity (ra	inge)	kW	10.0 [4.0(Min	.) - 11.2(Max.)]
	Nominal heating capacity (ra	ange)	kW	11.2 [4.0(Min	.) - 12.5(Max.)]
	Daniel de la constitución de la	Cooling		2.	85
	Power consumption	Heating	Indoor unit FDE100VH 3 Phase, 380 - 41 kW 10.0 [4.0(M kW) 11.2 [4.0(M kW) 11.2 [4.0(M 11.	54	
	Max power consumption			10	.20
		Cooling		4.6	/ 4.8
	Running current	Heating		4.0	/ 4.2
	Inrush current, max current		7	5,	15
Operation	· ·	Cooling		9	00
data	Power factor Heating EER Cooling		- % -		1
				3.	51
	COP	Heating	\dashv		41
		Cooling		<u></u>	69
	Sound power level	Heating	\dashv	64	70
		Cooling			54
	Sound pressure level	Heating	- db(A)	P-Hi: 48 Hi: 43 Me: 38 Lo: 34	55
	Cilent made accord myses was				48 /44(Normal/Silent)
Cutaviau dinas	Silent mode sound pressure		-	050 v.1 000 v.000	` /
	nsions (Height x Width x Depth)	mm	· · · · · · · · · · · · · · · · · · ·	845 x 970 x 370
Exterior appea					Stucco white
(Munsell color	r)				(4.2Y7.5/1.1) near equivalent (RAL 7044) near equivalent
(RAL color)			Lon	. , ,	, , ,
Net weight	0.00		kg		78
Compressor type & Q'ty				RMT5126SWP4 (Twin rotary type)x1	
Compressor motor (Starting method)				Direct line start	
	(Amount, type)		L		0.9 (M-MB75)
Refrigerant (T	Type, amount, pre-charge leng	h)	kg		e amount for the piping of 30m)
Heat exchange	er			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant co	ontrol			Electronic ex	pansion valve
Fan type & Q'1	ty			Centrifugal fan x4	Propeller fan x1
Fan motor (Sta	arting method)		W	80 < Direct line start >	86 < Direct line start >
A in flance		Cooling	3/:-	D. 15: 00 15: 00 May 04 1 as 40 5	75
Air flow		Heating	m ⁻ /min	P-HI: 32 HI: 26 Me: 21 Lo: 16.5	73
Available exte	rnal static pressure		Pa	0	0
Outside air int	· · · · · · · · · · · · · · · · · · ·			Not possible	_
Air filter, Qualit	ity / Quantity			·	_
Shock & vibra	<u> </u>			, , ,	Rubber sleeve (for fan motor & compressor
Electric heater			W	_	20(Crank case heater)
LIGOTINO FIGURE	Remote control		+ " +	(Ontion) Wired : BC-EX3A BC-E	
Operation	Room temperature control		+	Thermostat by electronics	
control	Operation display			memostat t	by electronics
	Operation display		+	Overland protect	tion for for motor
					on thermostat
Safety equipm	nents				stat for fan motor
				Abnormal discharge to	emperature protection
	Refrigerant piping size (O.D)	Liquid line		I/U φ 9.52 (3/8") Pipe φ 9.53	2 (3/8")x0.8 O/U φ 9.52 (3/8")
	Connecting method	Gas line			(5/8")x1.0 φ 15.88 (5/8")
	Connecting method			Flare piping	Flare piping
Installation Insulation for piping					Liquid & Gas lines)
	Refrigerant line (one way) length		m		x.50
Installation data					Max.15 (Outdoor unit is lower)
	Vertical height diff. between O/				Hole size φ 20 x 3pcs
data	Drain hose		mm	—	— — — — — — — — — — — — — — — — — — —
data Drain pump, n	Drain hose max lift height			— — —	— — — — — — — — — — — — — — — — — — —
data Drain pump, n Recommende	Drain hose max lift height ad breaker size		А	<u>-</u>	<u> </u>
Drain pump, n Recommende L.R.A. (Locked	Drain hose max lift height ad breaker size d rotor ampere)	Core number	А		
Drain pump, n Recommende L.R.A. (Locked Interconnection	Drain hose max lift height ad breaker size d rotor ampere)	Core number	А	– 5 φ 1.6mm x 3 cores + earth cable	- i.0 / Terminal block (Screw fixing type)
Drain pump, n Recommende L.R.A. (Locked Interconnectin IP number	Drain hose max lift height ad breaker size d rotor ampere) ng wires Size x	Core number	А	– 5 φ 1.6mm x 3 cores + earth cable a IPX0	- i.0 / Terminal block (Screw fixing type)
Drain pump, n Recommende L.R.A. (Locked	Drain hose max lift height ad breaker size d rotor ampere) ng wires Size x	Core number	А	– 5 φ 1.6mm x 3 cores + earth cable of IPX0 Mounting kit, Drain hose	- i.0 / Terminal block (Screw fixing type)

Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.

			Model		1
Item				Indoor unit FDE125VH	Outdoor unit FDC125VNA-W
Power source				1 Phase, 220 - 240	V 50Hz / 220V 60Hz
Nominal cooling capacity (range)		kW	12.5 [5.0(Min	.) - 14.0(Max.)]	
Nominal heating capacity (range)		kW	14.0 [4.0(Min	.) - 16.0(Max.)]	
	Power consumption	Cooling		4.	45
	Fower consumption	Heating	Indoor unit FDE125VH	74	
	Max power consumption			6.	40
	Din a summent	Cooling		20.4	/ 21.3
	Running current	Heating	_ A _	17.5	/ 18.3
	Inrush current, max current			5,	24
Operation		Cooling	0.1	9	95
data	Power factor	Heating	%	9	03
	EER	Cooling		2.	81
	COP	Heating			
		Cooling	+		
	Sound power level	Heating	-	64	71
		Cooling	- dR(Δ)		54
	Sound pressure level	Heating	- ab(ii)	P-Hi: 48 Hi: 45 Me: 40 Lo: 35	56
	Silent mode sound pressure le		1	_	48 /45(Normal/Silent)
Exterior dimer	nsions (Height x Width x Depth)	VCI	mm	250 × 1 620 × 690	845 x 970 x 370
Exterior appea			111111	· · · · · · · · · · · · · · · · · · ·	Stucco white
(Munsell color					(4.2Y7.5/1.1) near equivalent
(RAL color)	,				(RAL 7044) near equivalent
Net weight			ka		77
Compressor type & Q'ty		I Ng		RMT5126SWP3 (Twin rotary type)x1	
Compressor motor (Starting method)			I/\/		Direct line start
	I (Amount, type)		+ +	<u>_</u>	0.9 (M-MB75)
				P22 2 2 in outdoor unit (Incl. th	,
,	Type, amount, pre-charge length)		кд		
Heat exchang					M shape fin & inner grooved tubing
Refrigerant co					:
Fan type & Q'			144		Propeller fan x1
Fan motor (St	arting method)	1	W	80 < Direct line start >	86 < Direct line start >
Air flow		Cooling	m³/min	P-Hi: 32 Hi: 29 Me: 23 Lo: 17	75
		Heating			73
	ernal static pressure		Pa		0
Outside air int	take			<u>'</u>	_
Air filter, Quali	<u> </u>			, , ,	_
Shock & vibra	ation absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor
Electric heater	r		W	_	20(Crank case heater)
Operation	Remote control			(Option) Wired: RC-EX3A, RC-E	5, RCH-E3 Wireless: RCN-E-E3
control	Room temperature control			Thermostat b	by electronics
CONTROL	Operation display			-	-
				Overload protect	tion for fan motor
Safety equipm	nents				
, , , , ,					
	Definement with 1 (O.7)	Liquid line	+ +		
	Refrigerant piping size (O.D)	Liquid line	⊢ mm ⊢		
	Connecting method	Gas line	+		
Installation	Connecting method		+		Flare piping
data	Insulation for piping		1		· · · · · · · · · · · · · · · · · · ·
	Refrigerant line (one way) leng		+ +		Ť
	Vertical height diff. between O/U a	nd I/U	m	· ,	Max.15 (Outdoor unit is lower)
	Drain hose			Hose connectable with VP20(O.D.26)	Hole size φ 20 x 3pcs
Drain pump, n			mm	_	_
Recommende	ed breaker size		A		
L.R.A. (Locked	d rotor ampere)		A	5	.0
Interconnectin	ng wires Size x C	ore number		φ 1.6mm x 3 cores + earth cable	/ Terminal block (Screw fixing type)
IP number				IPX0	IP24
Standard acce	essories			Mounting kit, Drain hose	_
Option parts				-	nsor : LB-E
· · ·	data are measured at the follow				

Ite	m Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

Item Power source				Indoor unit FDE125VH 3 Phase, 380 - 415	Outdoor unit FDC125VSA-W	
Power source				3 Phase, 380 - 415	V 50Hz / 380V 60Hz	
	Nominal cooling capacity (ran			3 Phase, 380 - 415V 50Hz / 380V 60Hz		
	Nominal cooling capacity (range)		kW	12.5 [5.0(Min	.) - 14.0(Max.)]	
	Nominal heating capacity (range)		kW	14.0 [4.0(Min	.) - 16.0(Max.)]	
	Bti	Cooling		4.	45	
	Power consumption	Heating	kW	3.	74	
	Max power consumption		1	10	.20	
	·	Cooling		6.9	7.3	
	Running current	Heating		5.9	/ 6.2	
	Inrush current, max current		1	5,	15	
Operation		Cooling			93	
data	Power factor	Heating	- % -	9	1	
	EER	Cooling		2.	81	
	COP	Heating	1		74	
		Cooling				
	Sound power level	Heating	-	64	71	
		Cooling	dB(A)		54	
	Sound pressure level	Heating	- ab()	P-Hi: 48 Hi: 45 Me: 40 Lo: 35	56	
	Silent mode sound pressure I				48 /45(Normal/Silent)	
Exterior dime	nsions (Height x Width x Depth)	ovoi .	mm	250 x 1,620 x 690	845 x 970 x 370	
Exterior appea				Plaster white	Stucco white	
(Munsell color				(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent	
(RAL color)	, ,			(RAL 9003) near equivalent	(RAL 7044) near equivalent	
Net weight			kg	43	78	
Compressor type & Q'ty		9		RMT5126SWP4 (Twin rotary type)x1		
Compressor motor (Starting method)			kW		Direct line start	
<u>.</u>	I (Amount, type)		L	_	0.9 (M-MB75)	
	Type, amount, pre-charge length	1	kg	R32 3 3 in outdoor unit (Incl. th.	e amount for the piping of 30m)	
Heat exchanger			I Ng	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing	
Refrigerant control			+		pansion valve	
Fan type & Q'			+	Centrifugal fan x4	Propeller fan x1	
	arting method)		W	80 < Direct line start >	86 < Direct line start >	
Tall motor (or	arting method)	Cooling	+ **	00 \ Direct line start >	75	
Air flow		Heating	m³/min	P-Hi: 32 Hi: 29 Me: 23 Lo: 17	73	
Available oxto	ernal static pressure	Treating	Pa	0	0	
Outside air int	<u>'</u>		ı a	Not possible	_	
Air filter, Quali				Pocket plastic net x2(Washable)	_	
Shock & vibra			+ +	Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor)	
Electric heater			W	nubber sleeve(for fair filotor)	` '	
Electric fleate	Remote control		VV	- 20(Crank case heater)		
Operation				(Option) Wired: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-E-E3 Thermostat by electronics		
control	Room temperature control		+	memostat t	by electronics	
	Operation display		+		- Lian fau fan waster	
				Overload protection for fan motor Frost protection thermostat		
Safety equipm	nents				stat for fan motor	
				Abnormal discharge to	emperature protection	
	Refrigerant piping size (O.D)	Liquid line	mm	I/U φ 9.52 (3/8") Pipe φ 9.52	2 (3/8")x0.8 Ο/U φ 9.52 (3/8")	
	Connecting method	Gas line	mm –		(5/8")x1.0 φ 15.88 (5/8")	
	Connecting method			Flare piping	Flare piping	
Installation	Insulation for piping			Necessary (both L		
data	Refrigerant line (one way) len	gth	m		x.50	
	Vertical height diff. between O/U		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)	
	Drain hose			Hose connectable with VP20(O.D.26)	Hole size φ 20 x 3pcs	
Drain pump, n			mm	_	_	
	ed breaker size		A		_	
	d rotor ampere)		A	5	5.0	
•		Core number			/ Terminal block (Screw fixing type)	
Interconnecting wires Size x Core number			+ +	IPX0	IP24	
	IP number					
IP number	Standard accessories			Mounting kit. Drain hose	_	
IP number	essories			Mounting kit, Drain hose Motion se	nsor : LB-E	

Ite	m Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.

lkama			Model		VNAWVH	
Item				Indoor unit FDE140VH	Outdoor unit FDC140VNA-W	
Power source				,	V 50Hz / 220V 60Hz	
	Nominal cooling capacity (rang	· <i>'</i>	kW	- '	.) - 14.5(Max.)]	
	Nominal heating capacity (rang		kW	15.5 [4.0(Min.) - 16.5(Max.)]		
	Power consumption	Cooling	」	·	05	
	- ower consumption	Heating	kW	4.	18	
	Max power consumption Running current Cooling Heating			6.	40	
				22.2	/ 23.2	
			Α	18.4 / 19.2		
0	Inrush current, max current			5,	24	
Operation data	Power factor	Cooling	- %	9	9	
data	Power lactor	Heating	70 [9	9	
	EER	Cooling		2.	69	
	COP	Heating	7 [3.	71	
		Cooling		0.5	72	
	Sound power level	Heating	7	65	73	
		Cooling	dB(A)		56	
	Sound pressure level	Heating	┦ `′	P-Hi: 49 Hi: 45 Me: 40 Lo: 36	58	
	Silent mode sound pressure le		1	_	49 /45(Normal/Silent)	
Exterior dimer	nsions (Height x Width x Depth)		mm	250 x 1.620 x 690	845 x 970 x 370	
Exterior appea				Plaster white	Stucco white	
(Munsell color				(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent	
(RAL color)	-,			(RAL 9003) near equivalent	(RAL 7044) near equivalent	
Net weight			kg	43	77	
Compressor t	type & O'ty		1 3	<u> </u>	RMT5126SWP3 (Twin rotary type)x1	
Compressor motor (Starting method)		kW	_	Direct line start		
<u> </u>	I (Amount, type)		L	_	0.9 (M-MB75)	
	Type, amount, pre-charge length)		kg	R32 3 3 in outdoor unit (Incl. th	e amount for the piping of 30m)	
Heat exchang	· · · · · · · · · · · · · · · · · · ·		1 1.9	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing	
Refrigerant co	<u></u>		+		pansion valve	
Fan type & Q'			+ +	Centrifugal fan x4	Propeller fan x1	
	tarting method)		W	90 < Direct line start >	86 < Direct line start >	
ran motor (St	tarting metriou)	Cooling	VV	50 < Direct line start >	75	
Air flow		Cooling	m³/min	P-Hi: 34 Hi: 29 Me: 23 Lo: 18		
A ! - - - - -		Heating	- B-		73	
	ernal static pressure		Pa	0	0	
Outside air int			1	Possible	_	
Air filter, Quali	· · · · · · · · · · · · · · · · · · ·			Pocket plastic net x2(Washable)	_	
Shock & vibra				Rubber sleeve (for fan motor) Rubber sleeve (for fan motor &		
Electric heate			W		20(Crank case heater)	
Operation	Remote control				5 , RCH-E3 Wireless : RCN-E-E3	
control	Room temperature control			Thermostat b	by electronics	
	Operation display			-	-	
					tion for fan motor	
Safety equipm	nents				on thermostat	
					stat for fan motor emperature protection	
		Liquid line	+ +	I/U ϕ 9.52 (3/8") Pipe ϕ 9.52		
	Refrigerant piping size (O.D)	Gas line	mm –		(5/8")x1.0 φ 15.88 (5/8")	
	Connecting method	L Cas iiile	+ +	φ 13.66 (3/6) φ 13.66(Flare piping	
Installation			+			
data	Insulation for piping	ıth.	- m		Liquid & Gas lines)	
	Refrigerant line (one way) leng		m		x.50 May 15 (Outdoor unit is lower)	
	Vertical height diff. between O/U a	iriu I/U	m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)	
Di.	Drain hose		+	Hose connectable with VP20(O.D.26)	Hole size φ 20 x 3pcs	
Drain pump, r			mm	_	_	
Recommende	ed breaker size		A		= :	
	d rotor ampere)		A		i.O	
· · ·	Interconnecting wires Size x Core number			φ 1.6mm x 3 cores + earth cable / Terminal block (Screw fixing type)		
Interconnectir	ng wires Size x C	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
Interconnectir IP number		ore number		IPX0	IP24	
Interconnectir		ore number		IPX0 Mounting kit, Drain hose		

` '		O			me pipe lengan le mem
Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

ltom			Model		VSAWVH	
Item				Indoor unit FDE140VH	Outdoor unit FDC140VSA-W	
Power source	T			· · · · · · · · · · · · · · · · · · ·	V 50Hz / 380V 60Hz	
	Nominal cooling capacity (rang		kW	13.6 [5.0(Min.) - 14.5(Max.)]		
	Nominal heating capacity (rang		kW	- '	.) - 16.5(Max.)]	
	Power consumption	Cooling		·	05	
		Heating	kW	4.18		
	Max power consumption			10	.20	
	Running current	Cooling			/ 8.2	
	Heating		_ A _	6.5	/ 6.8	
0	Inrush current, max current			5,	15	
Operation data	Dawey factor	Cooling	0/	9	94	
uaia	Power factor	Heating	%	9	93	
	EER	Cooling		2.	69	
	COP	Heating	7	3.	71	
		Cooling			72	
	Sound power level	Heating	7	65	73	
		Cooling	dB(A)		56	
	Sound pressure level	Heating	7 ()	P-Hi: 49 Hi: 45 Me: 40 Lo: 36	58	
	Silent mode sound pressure le		1		49 /45(Normal/Silent)	
Exterior dimer	nsions (Height x Width x Depth)		mm	250 x 1.620 x 690	845 x 970 x 370	
Exterior appea			+	Plaster white	Stucco white	
(Munsell color				(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent	
(RAL color))			(RAL 9003) near equivalent	(RAL 7044) near equivalent	
Net weight			kg	43	78	
Compressor to	une & O'ty		I Ng		RMT5126SWP4 (Twin rotary type)x1	
	notor (Starting method)		kW		Direct line start	
<u> </u>	(Amount, type)		L		0.9 (M-MB75)	
				P22 2 2 in outdoor unit (Incl. th	, ,	
	ype, amount, pre-charge length)		kg	,	e amount for the piping of 30m)	
Heat exchang			+ +	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing	
Refrigerant co					pansion valve	
Fan type & Q'			 	Centrifugal fan x4	Propeller fan x1	
Fan motor (Sta	arting method)	Т.	W	90 < Direct line start >	86 < Direct line start >	
Air flow		Cooling	m³/min	P-Hi: 34 Hi: 29 Me: 23 Lo: 18	75	
		Heating	1		73	
Available exte	rnal static pressure		Pa	0	0	
Outside air int	ake			Not possible	_	
Air filter, Quali	ty / Quantity			Pocket plastic net x2(Washable)	_	
Shock & vibra	tion absorber			Rubber sleeve (for fan motor) Rubber sleeve (for fan motor &		
Electric heater	•		W	_	20(Crank case heater)	
0	Remote control			(Option) Wired: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-E-E3		
Operation control	Room temperature control			Thermostat b	by electronics	
CONTROL	Operation display			-	<u> </u>	
				Overload protect	tion for fan motor	
Safety equipm	nents				on thermostat	
					stat for fan motor	
		Limitel Co.	+		emperature protection	
	Refrigerant piping size (O.D)	Liquid line	mm -	I/U φ 9.52 (3/8") Pipe φ 9.52	<u> </u>	
		Gas line	1		(5/8")x1.0 φ 15.88 (5/8")	
Installation	Connecting method		1	Flare piping	Flare piping	
data	Insulation for piping				Liquid & Gas lines)	
	Refrigerant line (one way) leng		m		x.50	
	Vertical height diff. between O/U a	nd I/U	m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)	
	Drain hose			Hose connectable with VP20(O.D.26)	Hole size φ 20 x 3pcs	
Drain pump, n	nax lift height		mm	_	_	
Recommende	d breaker size		А		_	
L.R.A. (Locked	d rotor ampere)		А	5	5.0	
Interconnectin	g wires Size x Co	ore number		φ 1.6mm x 3 cores + earth cable	/ Terminal block (Screw fixing type)	
IP number	•			IPX0	IP24	
Standard acce	essories		1 1	Mounting kit, Drain hose	_	
Option parts					nsor : LB-E	
	data are measured at the follow			The pine length is 7.5		

The pipe length is 7.5m.

` '		•			
Item	Indoor air temperature		Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Staridards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.

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#

(b) Twin type

Itam		Model	FDE100V	T		
Item				Indoor unit FDE50VH (2 units)	Outdoor unit FDC100VNA-W	
Power source				,	220 - 240V 50Hz / 220V 60Hz	
	Nominal cooling capacity (rang	· ·	kW		.) - 11.3(Max.)]	
	Nominal heating capacity (rang		kW		.) - 12.5(Max.)]	
	Power consumption	Cooling	⊣ ⊢		12	
Heating		Heating	kW		99	
	Max power consumption			6.	40	
Running current Cooling				/ 14.6		
	Training darront	Heating	_ A _	13.4	/ 14.0	
Onevetien	Inrush current, max current			5,	24	
Operation data	Power factor	Cooling	- %	g	97	
uaia	Power factor	Heating	7 % [ç	7	
	EER	Cooling		3.	21	
	COP	Heating	7	3.	75	
		Cooling			69	
	Sound power level	Heating	7	60	70	
		Cooling	dB(A)		54	
	Sound pressure level	Heating	- 420,	P-Hi: 46 Hi: 38 Me: 36 Lo: 31	55	
	Silent mode sound pressure le		┦ ├		48 /44(Normal/Silent)	
Exterior dime	nsions (Height x Width x Depth)	VCI	mm	210 x 1,070 x 690	845 x 970 x 370	
			111111	· · · · · · · · · · · · · · · · · · ·		
Exterior appea				Plaster white	Stucco white (4.2Y7.5/1.1) near equivalent	
(RAL color)	r)			(6.8Y8.9/0.2) near equivalent (RAL 9003) near equivalent	(RAL 7044) near equivalent	
,			len	· , , ,	77	
Net weight	0.011		kg	28		
Compressor t				_	RMT5126SWP3 (Twin rotary type)x1	
	motor (Starting method)		kW		Direct line start	
	I (Amount, type)		L		0.9 (M-MB75)	
Refrigerant (1	Type, amount, pre-charge length)		kg		e amount for the piping of 30m)	
Heat exchang	ger			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing	
Refrigerant co	ontrol			Electronic ex	pansion valve	
Fan type & Q'	'ty			Centrifugal fan x2	Propeller fan x1	
Fan motor (St	arting method)		W	30 < Direct line start >	86 < Direct line start >	
A : #1		Cooling	3/:	D.15.40. 15.40. May 0. 1 a. 7	75	
Air flow		Heating	m³/min	P-Hi: 13 Hi: 10 Me: 9 Lo: 7	73	
Available exte	ernal static pressure		Pa	0 0		
Outside air int	· · · · · · · · · · · · · · · · · · ·			Possible	_	
Air filter, Quali				Pocket plastic net x2(Washable)	_	
Shock & vibra	<u> </u>			Rubber sleeve(for fan motor) Rubber sleeve (for fan motor &		
Electric heate			W		20(Crank case heater)	
Licotilo ficato	Remote control		+ "	(Option) Wired: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-E-E3		
Operation	Room temperature control				by electronics	
control	· · · · · · · · · · · · · · · · · · ·		+	memostat t	by electronics	
	Operation display			Overland protect	tion for for motor	
					tion for fan motor on thermostat	
Safety equipn	nents				stat for fan motor	
					emperature protection	
	Definement visites : (0.5)	Liquid line		I/U φ 6.35(1/4") ② φ 9.52(3/8")x0.8	① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8")	
	Refrigerant piping size (O.D)	Gas line	mm –		① φ 15.88 (5/8")x1.0 φ 15.88 (5/8")	
	Connecting method	1	1	Flare piping	Flare piping	
Installation	Insulation for piping		+		Liquid & Gas lines)	
data	Refrigerant line (one way) leng	th	m		x.50	
	Vertical height diff. between O/U a		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)	
	Drain hose		+	Hose connectable with VP20(O.D.26)	Hole size φ 20 x 3pcs	
Drain nume			mm			
	max lift height		mm		_	
	ed breaker size		A		-	
	d rotor ampere)		A		i.0	
Interconnectir	ng wires Size x C	ore number		<u>`</u>	/ Terminal block (Screw fixing type)	
IP number				IPX0	IP24	
Standard acc	essories			Mounting kit, Drain hose	_	

Notes (1) The data are measured at the following conditions.

The pipe length is 7.5m.

` '		me pipe length le mem				
Item	Item Indoor air		Item Indoor air temperature Outdoor air temper		temperature	Standards
Operation	DB	WB	DB	WB	Standards	
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1	
Heating	20°C	_	7°C	6°C	ISO5151-H1	

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
- (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together. (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U

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Itom			Model		/SAWPVH
Item				Indoor unit FDE50VH (2 units)	Outdoor unit FDC100VSA-W
Power source				,	5V 50Hz / 380V 60Hz
	Nominal cooling capacity (rang	· ·	kW		n.) - 11.2(Max.)]
	Nominal heating capacity (range		kW		n.) - 12.5(Max.)]
	Power consumption	Cooling	_		.12
	. ewer consumption	Heating	kW		.99
Max power consumption				10).20
	Running current	Cooling		4.6	/ 4.8
	Training current	Heating	A	4.4	/ 4.6
	Inrush current, max current			5,	, 15
Operation	D ()	Cooling	0,6	9	98
data	Power factor	Heating	- % -	(98
	EER	Cooling		3.	.21
	COP	Heating	1		.75
		Cooling		<u> </u>	69
	Sound power level	Heating	-	60	70
		Cooling	dB(A)		54
	Sound pressure level		- GB(A)	P-Hi: 46 Hi: 38 Me: 36 Lo: 31	55
	Oileant and a second assessment	Heating			
	Silent mode sound pressure le	vei			48 /44(Normal/Silent)
	nsions (Height x Width x Depth)		mm	210 x 1,070 x 690	845 x 970 x 370
Exterior appea				Plaster white	Stucco white
(Munsell color)			(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent
(RAL color)				(RAL 9003) near equivalent	(RAL 7044) near equivalent
Net weight			kg	28	78
Compressor ty					RMT5126SWP4 (Twin rotary type)x1
Compressor n	notor (Starting method)		kW		Direct line start
Refrigerant oil	(Amount, type)		L	_	0.9 (M-MB75)
Refrigerant (T	ype, amount, pre-charge length)		kg	R32 3.3 in outdoor unit (Incl. th	ne amount for the piping of 30m)
Heat exchang	er			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant co	ntrol			Electronic ex	cpansion valve
Fan type & Q'	ty			Centrifugal fan x2	Propeller fan x1
Fan motor (St	arting method)		W	30 < Direct line start >	86 < Direct line start >
		Cooling	3		75
Air flow		Heating	m³/min	P-Hi: 13 Hi: 10 Me: 9 Lo: 7	73
Available exte	rnal static pressure	<u> </u>	Pa	0	0
Outside air int	· · · · · · · · · · · · · · · · · · ·			Not possible	_
Air filter, Quali			1	Pocket plastic net x2(Washable)	_
Shock & vibra	<u> </u>		+	Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor
Electric heater			W	-	20(Crank case heater)
Licotilo ficato	Remote control		***	(Option) Wired : BC EV3A BC E	E5 , RCH-E3 Wireless : RCN-E-E3
Operation	Room temperature control		+ +		by electronics
control	· · · · · · · · · · · · · · · · · · ·			memostati	by electronics
	Operation display		+	O	tion for for motor
					tion for fan motor ion thermostat
Safety equipm	nents				stat for fan motor
					temperature protection
		Liquid line			① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8")
	B (ighthapped mm ighthapped in the mm ighthapped in the mean in the	φ 12.7 (1/2") ② φ 12.7(1/2")x0.8	
	Refrigerant piping size (O.D)	Gas line			
	Refrigerant piping size (O.D) Connecting method	Gas line		. , , -, , ,	
Installation	Connecting method	Gas line		Flare piping	Flare piping
Installation data	Connecting method Insulation for piping			Flare piping Necessary (both	Flare piping Liquid & Gas lines)
	Connecting method Insulation for piping Refrigerant line (one way) leng	yth	m	Flare piping Necessary (both Ma	Flare piping Liquid & Gas lines) x.50
	Connecting method Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a	yth		Flare piping Necessary (both Ma Max.50 (Outdoor unit is higher)	Flare piping Liquid & Gas lines) ix.50 Max.15 (Outdoor unit is lower)
data	Connecting method Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose	yth	m m	Flare piping Necessary (both Ma Max.50 (Outdoor unit is higher) Hose connectable with VP20(O.D.26)	Flare piping Liquid & Gas lines) ix.50 Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3pcs
data Drain pump, n	Connecting method Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose nax lift height	yth	m m	Flare piping Necessary (both Ma Max.50 (Outdoor unit is higher) Hose connectable with VP20(O.D.26) —	Flare piping Liquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size ϕ 20 x 3pcs —
data Drain pump, n Recommende	Connecting method Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose nax lift height d breaker size	yth	m m	Flare piping Necessary (both Ma Max.50 (Outdoor unit is higher) Hose connectable with VP20(O.D.26) —	Flare piping Liquid & Gas lines) xx.50 Max.15 (Outdoor unit is lower) Hole size ϕ 20 x 3pcs —
Drain pump, n Recommende L.R.A. (Locked	Connecting method Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose nax lift height d breaker size d rotor ampere)	yth and I/U	m m	Flare piping Necessary (both Ma Max.50 (Outdoor unit is higher) Hose connectable with VP20(O.D.26) —	Flare piping Liquid & Gas lines) xx.50 Max.15 (Outdoor unit is lower) Hole size ϕ 20 x 3pcs 5.0
Drain pump, n Recommende L.R.A. (Locked Interconnection	Connecting method Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose nax lift height d breaker size d rotor ampere)	yth	m m	Flare piping Necessary (both Ma Max.50 (Outdoor unit is higher) Hose connectable with VP20(O.D.26) —	Flare piping Liquid & Gas lines) xx.50 Max.15 (Outdoor unit is lower) Hole size ϕ 20 x 3pcs 5.0 / Terminal block (Screw fixing type)
Drain pump, n Recommende L.R.A. (Locked Interconnectin IP number	Connecting method Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose nax lift height d breaker size d rotor ampere) g wires Size x C	yth and I/U	m m	Flare piping Necessary (both Ma Max.50 (Outdoor unit is higher) Hose connectable with VP20(O.D.26) —	Flare piping Liquid & Gas lines) xx.50 Max.15 (Outdoor unit is lower) Hole size ϕ 20 x 3pcs 5.0 / Terminal block (Screw fixing type) IP24
Drain pump, n Recommende L.R.A. (Locked Interconnection	Connecting method Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose nax lift height d breaker size d rotor ampere) g wires Size x C	yth and I/U	m m	Flare piping Necessary (both Ma Max.50 (Outdoor unit is higher) Hose connectable with VP20(O.D.26) — \$\phi\$ \$\phi\$ 1.6mm x 3 cores + earth cable IPX0 Mounting kit, Drain hose	Flare piping Liquid & Gas lines) xx.50 Max.15 (Outdoor unit is lower) Hole size ϕ 20 x 3pcs 5.0 / Terminal block (Screw fixing type)

The pipe length is 7.5m.

` '		•					
Item	Indoor air temperature		Item Indoor air temperature Outdoor air temperature				Standards
Operation	DB	WB	DB	WB	Staridards		
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1		
Heating	20°C	_	7°C	6°C	ISO5151-H1		

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
- (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together. (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U

PFA004Z088 🛕

14			Model		/NAWPVH
Item				Indoor unit FDE60VH (2 units)	Outdoor unit FDC125VNA-W
Power source			kW	· · · · · · · · · · · · · · · · · · ·	V 50Hz / 220V 60Hz
	Nominal cooling capacity (range			- '	ı.) - 14.0(Max.)]
	Nominal heating capacity (range)		kW	- '	.) - 16.0(Max.)]
	Power consumption	Cooling	_	4.	.16
	. errer derriedingsterr	Heating	kW		54
Max power consumption				6.	40
	Running current	Cooling			/ 19.1
	Training carrent	Heating	_ A _	15.5	/ 16.3
Operation	Inrush current, max current			5,	24
Operation data	Power factor	Cooling	- % -	9	99
data	Fower factor	Heating	70	Ş	99
	EER	Cooling		3.	.00
	COP	Heating		3.	.95
	0	Cooling		00	74
	Sound power level	Heating	7	60	71
		Cooling	dB(A)		54
	Sound pressure level	Heating	7 1	P-Hi: 47 Hi: 41 Me: 37 Lo: 32	56
	Silent mode sound pressure le		1	_	48 /45(Normal/Silent)
Exterior dimer	nsions (Height x Width x Depth)		mm	210 x 1,320 x 690	845 x 970 x 370
Exterior appea				Plaster white	Stucco white
(Munsell color				(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent
(RAL color)	,			(RAL 9003) near equivalent	(RAL 7044) near equivalent
Net weight			kg	33	77
Compressor to	vpe & Q'tv		1 1		RMT5126SWP3 (Twin rotary type)x1
	notor (Starting method)		kW	_	Direct line start
	(Amount, type)		L	_	0.9 (M-MB75)
	ype, amount, pre-charge length)		kg	B32 3 3 in outdoor unit (Incl. th	ne amount for the piping of 30m)
Heat exchang	,, , , , , , , , , , , , , , , , , , ,		9	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant co			+ +		pansion valve
Fan type & Q'				Centrifugal fan x4	Propeller fan x1
	arting method)		w	50 < Direct line start >	86 < Direct line start >
Tarrinotor (Sta	arting metriod)	Cooling		50 \ Direct line start >	75
Air flow		Heating	m³/min	P-Hi: 20 Hi: 16 Me: 13 Lo: 10	73
Available exte	rnal static pressure		Pa	0	0
Outside air int	ake			Possible	_
Air filter, Quali	ty / Quantity			Pocket plastic net x2(Washable)	_
Shock & vibra	tion absorber			Rubber sleeve(for fan motor) Rubber sleeve (for fan motor &	
Electric heater	•		W	_	20(Crank case heater)
	Remote control			(Option) Wired: RC-EX3A, RC-E	5 , RCH-E3 Wireless : RCN-E-E3
Operation	Room temperature control			Thermostat I	by electronics
control	Operation display				
				Overload protect	tion for fan motor
Safety equipm	onto				ion thermostat
Salety equipit	lents				stat for fan motor
		T	1		emperature protection
	Refrigerant piping size (O.D)	Liquid line	mm –		① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8")
		Gas line		, , , -, , ,	① φ 15.88 (5/8")x1.0 φ 15.88 (5/8")
Installation	Connecting method			Flare piping	Flare piping
data	Insulation for piping				Liquid & Gas lines)
	Refrigerant line (one way) leng	ıth	m	Ma	x.50
	Vertical height diff. between O/U a	and I/U	m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)
	Drain hose			Hose connectable with VP20(O.D.26)	Hole size φ 20 x 3pcs
Drain pump, n	nax lift height		mm	_	_
Recommende	d breaker size		Α		_
	d rotor ampere)		A	Ę	5.0
Interconnectin		ore number	1		/ Terminal block (Screw fixing type)
IP number	12:20 / 0		+	IPX0	IP24
Standard acce	essories		+	Mounting kit, Drain hose	_
Option parts			+	9 1	nsor: LB-E
- p parts				WOUGH SC	

The pipe length is 7.5m.

` '		me pipe length le mem				
Item	Item Indoor air		Item Indoor air temperature Outdoor air temper		temperature	Standards
Operation	DB	WB	DB	WB	Standards	
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1	
Heating	20°C	_	7°C	6°C	ISO5151-H1	

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
- (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together. (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U

PFA004Z088 🛕

			Model	FDE125	VSAWPVH	
Item				Indoor unit FDE60VH (2 units) Outdoor unit FDC125VSA-W		
Power source				3 Phase, 380 - 415	5V 50Hz / 380V 60Hz	
	Nominal cooling capacity (rang	je)	kW	12.5 [5.0(Mir	n.) - 14.0(Max.)]	
	Nominal heating capacity (rang	je)	kW	14.0 [4.0(Mir	n.) - 16.0(Max.)]	
	Power consumption Cooling Heating Max power consumption			4	.16	
			kW	3	.54	
				10	0.20	
	Cooling			6.1	/ 6.4	
	Running current	Heating	1 A		/5.5	
	Inrush current, max current		1 " H		, 15	
Operation		Cooling	+ +		99	
data	Power factor	Heating	- % -		98	
	EER	Cooling	+ +		3.00	
	COP	Heating	1 -		.95	
	COF	Cooling	+ +	,	.93	
	Sound power level		-	60	71	
		Heating			F.A.	
	Sound pressure level	Cooling	dB(A)	P-Hi: 47 Hi: 41 Me: 37 Lo: 32	54	
		Heating	_		56	
	Silent mode sound pressure le	vel			49 /45(Normal/Silent)	
	nsions (Height x Width x Depth)		mm	210 x 1,320 x 690	845 x 970 x 370	
Exterior appea				Plaster white	Stucco white	
(Munsell color	r)			(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent	
(RAL color)			+ . +	(RAL 9003) near equivalent	(RAL 7044) near equivalent	
Net weight			kg	33	78	
Compressor t	/ 				RMT5126SWP4 (Twin rotary type)x1	
<u> </u>	notor (Starting method)		kW		Direct line start	
	I (Amount, type)		L		0.9 (M-MB75)	
Refrigerant (T	Type, amount, pre-charge length)		kg	R32 3.3 in outdoor unit (Incl. tl	ne amount for the piping of 30m)	
Heat exchang	ger			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing	
Refrigerant co	ontrol			Electronic ex	kpansion valve	
Fan type & Q'	ty			Centrifugal fan x4	Propeller fan x1	
Fan motor (St	arting method)		W	50 < Direct line start >	86 < Direct line start >	
A :		Cooling m³/min		D. I.E. 00 . I.E. 10 . May 10 . Lay 10	75	
Air flow		Heating	7 '''/''''	P-Hi: 20 Hi: 16 Me: 13 Lo: 10	73	
Available exte	ernal static pressure	•	Pa	0	0	
Outside air int	take			Not possible	_	
Air filter, Quali	ity / Quantity			Pocket plastic net x2(Washable)	_	
Shock & vibra	ation absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor	
Electric heate	r		W		20(Crank case heater)	
	Remote control			(Option) Wired: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-E-E3		
Operation	Room temperature control				Thermostat by electronics	
control	Operation display		1		_	
	operation display			Overload protect	etion for fan motor	
0-1-1					tion thermostat	
Safety equipn	nents				stat for fan motor	
					temperature protection	
	Refrigerant piping size (O.D)	Liquid line	mm	I/U φ 6.35(1/4") ② φ 9.52(3/8")x0.8	① ϕ 9.52(3/8")x0.8 O/U ϕ 9.52 (3/8")	
	Tronigerant piping size (O.D)	Gas line	mm –	φ 12.7 (1/2") ② φ 12.7(1/2")x0.8	① ϕ 15.88 (5/8")x1.0 ϕ 15.88 (5/8")	
lestalletter	Connecting method			Flare piping	Flare piping	
Installation data	Insulation for piping			Necessary (both	Liquid & Gas lines)	
uala	Refrigerant line (one way) leng	th	m		ax.50	
	Vertical height diff. between O/U a	ınd I/U	m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)	
	Drain hose			Hose connectable with VP20(O.D.26)	Hole size φ 20 x 3pcs	
Drain pump, r			mm	_		
	ed breaker size		A		_	
	d rotor ampere)		A		5.0	
,		ore number	+ * * +			
Interconnecting wires Size x Core number			ϕ 1.6mm x 3 cores + earth cable / Terminal block (Screw fixing type			
				IDVO	IDOA	
IP number				IPX0	IP24	
				Mounting kit, Drain hose		

The pipe length is 7.5m.

		-			
Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Staridards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
- (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together. (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U

PFA004Z088 🛦

			Model		/NAWPVH		
Item				Indoor unit FDE71VH (2 units)	Outdoor unit FDC140VNA-W		
Power source				· · · · · · · · · · · · · · · · · · ·	V 50Hz / 220V 60Hz		
	Nominal cooling capacity (rang	je)	kW	13.6 [5.0(Min	.) - 14.5(Max.)]		
	Nominal heating capacity (rang	je)	kW	15.5 [4.0(Min.) - 16.5(Max.)]			
	Power consumption	Cooling		4.74			
	1 ower consumption	Heating	kW	4.	.21		
	Max power consumption			6.	40		
	Dunming august	Cooling		20.8	/ 21.8		
	Running current	Heating	A	18.5	/ 19.3		
	Inrush current, max current	•	1	5,	24		
Operation	B ()	Cooling	0,	9	99		
data	Power factor	Heating	- % -	9	99		
	EER	Cooling		2.	.87		
	COP	Heating	1	3.	.68		
		Cooling			72		
	Sound power level	Heating	\dashv	60	73		
		Cooling	dB(A)		56		
	Sound pressure level	Heating	- ab()	P-Hi: 47 Hi: 41 Me: 37 Lo: 32	58		
	Silent mode sound pressure le				49 /45(Normal/Silent)		
Exterior dime	nsions (Height x Width x Depth)	vei	mm	210 x 1,320 x 690	845 x 970 x 370		
			mm	· · · · · · · · · · · · · · · · · · ·	<u> </u>		
Exterior appearance (Munsell color				Plaster white (6.8Y8.9/0.2) near equivalent	Stucco white (4.2Y7.5/1.1) near equivalent		
(RAL color)	1)			(RAL 9003) near equivalent	(RAL 7044) near equivalent		
Net weight			kg	33	77		
Compressor t	hino 8 Oltu		Ng		RMT5126SWP3 (Twin rotary type)x1		
	motor (Starting method)		kW		Direct line start		
•							
	il (Amount, type)		L	— — — — — — — — — — — — — — — — — — —	0.9 (M-MB75)		
Refrigerant (Type, amount, pre-charge length)		kg		ne amount for the piping of 30m)			
Heat exchang	<u></u>			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing		
Refrigerant co					pansion valve		
Fan type & Q'				Centrifugal fan x4	Propeller fan x1		
Fan motor (St	tarting method)	1	W	50 < Direct line start >	86 < Direct line start >		
Air flow		Cooling Heating	m³/min	P-Hi: 20 Hi: 16 Me: 13 Lo: 10	75 73		
Available exte	ernal static pressure		Pa	0	0		
Outside air int	take			Not possible	_		
Air filter, Quali	ity / Quantity			Pocket plastic net x2(Washable)	_		
Shock & vibra	ation absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor		
Electric heate	er		W	<u> </u>	20(Crank case heater)		
	Remote control			(Option) Wired: RC-EX3A, RC-E	5 , RCH-E3 Wireless : RCN-E-E3		
Operation	Room temperature control				by electronics		
control	Operation display	-					
	1 2 1 2 2 2 3 4 3 7			Overload protect	tion for fan motor		
Cofoty oguinn	monto				ion thermostat		
Safety equipn	nents			Internal thermos	stat for fan motor		
					emperature protection		
	Refrigerant piping size (O.D)	Liquid line	mm		① ϕ 9.52(3/8")x0.8 O/U ϕ 9.52 (3/8")		
	Tremgerant piping size (0.b)	Gas line		φ 15.88 (5/8") ② φ 15.88(5/8")x1.0	① φ 15.88 (5/8")x1.0 φ 15.88 (5/8")		
Installation	Connecting method			Flare piping	Flare piping		
Installation data Insulation for piping			Necessary (both	Liquid & Gas lines)			
	Refrigerant line (one way) leng	th	m	Ma	x.50		
Vertical height diff. between O/U and I/U Drain hose		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)			
			Hose connectable with VP20(O.D.26)	Hole size φ 20 x 3pcs			
Drain pump, r	max lift height		mm	_	_		
	ed breaker size		A				
	d rotor ampere)		A		5.0		
Interconnectin		ore number	+ +		/ Terminal block (Screw fixing type)		
IP number	5 -1- -1-0 X O		+ +	IPX0	IP24		
Standard acc	essories		+ +	Mounting kit, Drain hose	-		
			+ +	• '	nsor : I B-F		
Option parts				Motion sensor : LB-E			

The pipe length is 7.5m.

		-			
Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Staridards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
- (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together. (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U

PFA004Z088 🛦

			Model	FDE140\	/SAWPVH	
Item				Indoor unit FDE71VH (2 units)	Outdoor unit FDC140VSA-W	
Power source	•			3 Phase, 380 - 415	V 50Hz / 380V 60Hz	
	Nominal cooling capacity (rang	je)	kW	13.6 [5.0(Mir	n.) - 14.5Max.)]	
	Nominal heating capacity (rang	je)	kW	15.5 [4.0(Min.) - 16.5(Max.)]		
	Davier communica	Cooling		4.74		
	Power consumption	Heating	kW	3.	.21	
	Max power consumption	'		10	0.20	
	B	Cooling		6.9	/ 7.3	
	Running current	Heating	1 A		/ 6.5	
	Inrush current, max current			5.	. 15	
Operation		Cooling			99	
data	Power factor	Heating	- % -		98	
	EER	Cooling	+	·	.87	
	COP	Heating	-		.68	
		Cooling	+	0.	72	
	Sound power level	Heating	-	60	73	
		Cooling	dB(A)		56	
	Sound pressure level		- GB(A)	P-Hi: 47 Hi: 41 Me: 37 Lo: 32	58	
	Cilent media accord mesocomo la	Heating				
	Silent mode sound pressure le	vei			49 /45(Normal/Silent)	
	nsions (Height x Width x Depth)		mm	210 x 1,320 x 690	845 x 970 x 370	
Exterior appe				Plaster white	Stucco white	
(Munsell color	r)			(6.8Y8.9/0.2) near equivalent (RAL 9003) near equivalent	(4.2Y7.5/1.1) near equivalent (RAL 7044) near equivalent	
(RAL color)			len.	· · · · · · · · · · · · · · · · · · ·		
Net weight	0.011		kg	33	78	
Compressor t	/ /		1114		RMT5126SWP4 (Twin rotary type)x1	
	motor (Starting method)		kW	<u> </u>	Direct line start	
	I (Amount, type)		L		0.9 (M-MB75)	
	Type, amount, pre-charge length)		kg		ne amount for the piping of 30m)	
Heat exchang	<u></u>			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing	
Refrigerant co					pansion valve	
Fan type & Q	<u> </u>			Centrifugal fan x4	Propeller fan x1	
Fan motor (St	tarting method)		W	50 < Direct line start >	86 < Direct line start >	
Air flow		Cooling	m³/min	P-Hi: 20 Hi: 16 Me: 13 Lo: 10	75	
All HOW		Heating	1117111111	73		
Available exte	ernal static pressure		Pa	0	0	
Outside air in	take			Not possible	_	
Air filter, Qual	ity / Quantity			Pocket plastic net x2(Washable)	_	
Shock & vibra	ation absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor	
Electric heate	r		W	_	20(Crank case heater)	
	Remote control			(Option) Wired: RC-EX3A, RC-E	E5 , RCH-E3 Wireless : RCN-E-E3	
Operation	Room temperature control			Thermostat I	by electronics	
control	Operation display					
				Overload protec	tion for fan motor	
Safety equipn	nents				ion thermostat	
Salety equipi	nents				stat for fan motor	
		T			temperature protection	
	Refrigerant piping size (O.D)	Liquid line	mm		① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8")	
		Gas line	1		① φ 15.88 (5/8")x1.0 φ 15.88 (5/8")	
Installation	Connecting method			Flare piping	Flare piping	
Insulation for piping Refrigerant line (one way) length Vertical height diff. between O/U and I/U				Liquid & Gas lines)		
		m		x.50		
		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)		
Drain hose			Hose connectable with VP20(O.D.26)	Hole size φ 20 x 3pcs		
Drain pump, max lift height		mm	_	_		
Recommended breaker size		Α		_		
L.R.A. (Locke	d rotor ampere)		Α	Ę	5.0	
Interconnectin		ore number		φ 1.6mm x 3 cores + earth cable	/ Terminal block (Screw fixing type)	
IP number	'			IPX0	IP24	
Standard acc	essories			Mounting kit, Drain hose	_	
Option parts				• '	ensor : LB-E	
, ,				511011 00		

The pipe length is 7.5m.

` '		O	The pipe length le Tienn		
Item	m Indoor air temperature Outdoor air temperature				Standards
Operation	DB	WB	DB	WB	Staridards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
- (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together. (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U

PFA004Z088 🛕

(c) Triple type

			Model	FDE140V	NAWTVH		
Item				Indoor unit FDE50VH (3 units)	Outdoor unit FDC140VNA-W		
Power source				1 Phase, 220 - 240	V 50Hz / 220V 60Hz		
	Nominal cooling capacity (range	e)	kW	13.6 [5.0(Min	.) - 14.5(Max.)]		
	Nominal heating capacity (range	e)	kW	15.5 [4.0(Min	.) - 16.5(Max.)]		
	Cooling		Cooling			4.	74
	Power consumption	Heating	kW	4.	21		
	Max power consumption	<u> </u>	-		40		
		Cooling		20.8	/ 21.8		
	Running current	Heating			/ 19.3		
	Inrush current, max current	1 2	- -		24		
Operation	,	Cooling			99		
data	Power factor	Heating	- % -		99		
	EER	Cooling			87		
	COP	Heating	┥ ト		68		
		Cooling		<u> </u>	72		
	Sound power level	Heating	-	60	73		
		Cooling	dB(A)		56		
	Sound pressure level	Heating	- db(A)	P-Hi: 46 Hi: 38 Me: 36 Lo: 31	58		
	Silent mode sound pressure lev		- - -		49 /45(Normal/Silent)		
Evtorior dimor	·	ei .	mm	210 x 1,070 x 690	845 x 970 x 370		
	sions (Height x Width x Depth)		mm	<u>'</u>			
Exterior appea (Munsell color				Plaster white (6.8Y8.9/0.2) near equivalent	Stucco white (4.2Y7.5/1.1) near equivalent		
(RAL color)	1			(RAL 9003) near equivalent	(RAL 7044) near equivalent		
Net weight			kg	28	77		
Compressor to	roo 8 O'thy		Ng	_	RMT5126SWP3 (Twin rotary type)x1		
	notor (Starting method)		kW		Direct line start		
	(Amount, type)		L	— — — — — — — — — — — — — — — — — — —	0.9 (M-MB75)		
	ype, amount, pre-charge length)		kg		e amount for the piping of 30m)		
Heat exchanger			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing			
Refrigerant co					pansion valve		
Fan type & Q'	<u> </u>		10/	Centrifugal fan x2	Propeller fan x1		
Fan motor (Sta	arting method)	Ta	W	30 < Direct line start >	86 < Direct line start >		
Air flow		Cooling	m³/min	P-Hi: 13 Hi: 10 Me: 9 Lo: 7	75		
		Heating			73		
	rnal static pressure		Pa	0	0		
Outside air int				Not possible	_		
Air filter, Quali	<u> </u>			Pocket plastic net x2(Washable)	_		
Shock & vibra				Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compresso		
Electric heater			W	_	20(Crank case heater)		
Operation	Remote control			(Option) Wired: RC-EX3A, RC-E	5 , RCH-E3 Wireless : RCN-E-E3		
Operation control	Room temperature control			Thermostat I	by electronics		
00111101	Operation display			-	_		
					tion for fan motor		
Safety equipm	ents				on thermostat		
, , , , , , ,					stat for fan motor		
		I don't diffe			emperature protection		
	Refrigerant piping size (O.D)	Liquid line	mm -		① ϕ 9.52(3/8")x0.8 O/U ϕ 9.52 (3/8")		
		Gas line	+ +		① φ 15.88 (5/8")x1.0 φ 15.88 (5/8")		
Installation	Connecting method			Flare piping	Flare piping		
data	Insulation for piping				Liquid & Gas lines)		
	Refrigerant line (one way) lengt		m		x.50		
	Vertical height diff. between O/U ar	nd I/U	m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)		
Drain hose			Hose connectable with VP20(O.D.26)	Hole size φ 20 x 3pcs			
Drain pump, n			mm		_		
Recommende	d breaker size		A		-		
L.R.A. (Locked	l rotor ampere)		A	5	5.0		
Interconnectin	g wires Size x Co	re number		φ 1.6mm x 3 cores + earth cable	/ Terminal block (Screw fixing type)		
IP number				IPX0	IP24		
Standard acce	essories			Mounting kit, Drain hose	_		
Option parts				Motion se	nsor : LB-E		
Notes (1) The	data are measured at the follow	ing conditions	`				

Notes (1) The data are measured at the following conditions.

` '		O	me pipe length le mem		
Item	Item Indoor air temperature Outdoor air temperature				Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
- (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together. (7) Branching pipe set "DIS-TA1G"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U

			Model		SAWTVH			
Item				Indoor unit FDE50VH (3 units)	Outdoor unit FDC140VSA-W			
Power source	r			3 Phase, 380 - 415\	V 50Hz / 380V 60Hz			
	Nominal cooling capacity (range	e)	kW	13.6 [5.0(Min	.) - 14.5Max.)]			
	Nominal heating capacity (range	e)	kW	15.5 [4.0(Min.	.) - 16.5(Max.)]			
	D	Cooling		4.74				
	Power consumption	Heating	kW	3.	21			
	Max power consumption		1	10	.20			
		Cooling		6.9	7.3			
	Running current	Heating	l a l	6.2	6.5			
	Inrush current, max current		1	5.	15			
Operation		Cooling			9			
data	Power factor	Heating	- %		8			
	EER	Cooling	1		87			
	COP	Heating	1 -		68			
	001	Cooling		0.	72			
	Sound power level	Heating	-	60	73			
		Cooling	- dB(A) -		56			
	Sound pressure level		dB(A)	P-Hi: 46 Hi: 38 Me: 36 Lo: 31	58			
	Cilent made accord process to the	Heating	┦ ├		* *			
	Silent mode sound pressure leve	el			49 /45(Normal/Silent)			
	nsions (Height x Width x Depth)		mm	210 x 1,070 x 690	845 x 970 x 370			
Exterior appea				Plaster white	Stucco white			
(Munsell color	7)			(6.8Y8.9/0.2) near equivalent (RAL 9003) near equivalent	(4.2Y7.5/1.1) near equivalent (RAL 7044) near equivalent			
(RAL color)			l	<u> </u>	, , ,			
Net weight	0.00		kg	28	78			
Compressor t				_	RMT5126SWP4 (Twin rotary type)x1			
<u> </u>	notor (Starting method)		kW		Direct line start			
	I (Amount, type)		L	-	0.9 (M-MB75)			
	Type, amount, pre-charge length)		kg	`	e amount for the piping of 30m)			
Heat exchang	·			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing			
Refrigerant co				'	pansion valve			
Fan type & Q'	ty			Centrifugal fan x2	Propeller fan x1			
Fan motor (St	arting method)		W	30 < Direct line start >	86 < Direct line start >			
Air flow		Cooling Heating	m³/min	P-Hi: 13 Hi: 10 Me: 9 Lo: 7	75 73			
Available exte	rnal static pressure	1.1049	Pa	0	0			
Outside air int	<u> </u>		1 4	Not possible				
Air filter, Quali			+ +	Pocket plastic net x2(Washable)	_			
Shock & vibra	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·				
Electric heate			W	Rubber sleeve(for fan motor) Rubber sleeve (for fan motor & c				
Liectric rieate	Remote control		- VV	(Ontion) Wired : DC EV2A DC E	5 , RCH-E3 Wireless : RCN-E-E3			
Operation	Room temperature control		+		by electronics			
control	'		+	mermostat t	by electronics			
	Operation display			-	-			
					ion for fan motor on thermostat			
Safety equipn	nents				tat for fan motor			
					emperature protection			
		Liquid line		I/U φ 6.35(1/4") ② φ 9.52(3/8")x0.8				
	Refrigerant piping size (O.D)	Gas line	mm –		① φ 15.88 (5/8")x1.0 φ 15.88 (5/8")			
	Connecting method			Flare piping	Flare piping			
Installation	Insulation for piping		+ +	Necessary (both L				
Refrigerant line (one way) length		m	Max					
			m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)			
Vertical height diff. between O/U and I/U Drain hose		""	Hose connectable with VP20(O.D.26)					
Droin record			mre	,	Hole size φ 20 x 3pcs			
Drain pump, r			mm		_			
Recommended breaker size		A		-				
,	d rotor ampere)		A		.0			
Interconnectin	ng wires Size x Cor	re number		<u>-</u>	/ Terminal block (Screw fixing type)			
IP number				IPX0	IP24			
Standard accessories				Mounting kit, Drain hose -				
Option parts				Motion sensor : LB-E				

Item	Indoor air t	Indoor air temperature		temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
 (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.
 (7) Branching pipe set "DIS-TA1G"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U

(6) Wall mounted type (SRK)

(a) Single type

Item			Model		VNAWZR Outdoor unit EDC100VNA-W	
			_	Indoor unit SRK100ZR-W	Outdoor unit FDC100VNA-W V 50Hz / 220V 60Hz	
Power source			130/			
	Nominal cooling capacity (ra		kW	- 1	.) - 11.2(Max.)]	
Nominal heating capacity (ra			kW		.) - 12.5(Max.)]	
	Power consumption	Cooling	┥ ├		19	
	Max power consumption		kW		04	
					40	
	Running current	Cooling	_		/ 14.9	
	Turning current	Heating	_ A _	13.6	/ 14.2	
Operation	Inrush current, max current			5,	24	
lata	Power factor	Cooling	- %	9	7	
autu	1 Ower factor	Heating	/0	9	97	
	EER	Cooling		3.	13	
	COP	Heating	7 [3.	68	
		Cooling			69	
	Sound power level	Heating	⊣	63	70	
		Cooling	dB(A)	P-Hi: 48 Hi: 45 Me: 40 Lo: 27	54	
	Sound pressure level	Heating	7 ()	P-Hi: 48 Hi: 43 Me: 38 Lo: 30	55	
	Silent mode sound pressure		┥ ト	_	48 /44(Normal/Silent)	
xterior dimer	nsions (Height x Width x Depth)		mm	339 x 1,197 x 262	845 x 970 x 370	
Exterior appea		1	111111	<u>, </u>		
Exterior appea Munsell color				Fine snow (8.0Y9.3/0.1) near equivalent	Stucco white (4.2Y7.5/1.1) near equivalent	
RAL color)	,			(RAL 9003) near equivalent	(RAL 7044) near equivalent	
let weight			kg	16.5	77	
Compressor to	vno 8 O'tv		Ng	-	RMT5126SWP3×1	
	notor (Starting method)		14/0/			
			kW		Direct line start	
	I (Amount, type)		L		0.9 (M-MB75)	
	Type, amount, pre-charge lengtl	n)	kg	, ,	ged up to the piping length of 30m)	
leat exchang				Louver fin & inner grooved tubing	M shape fin & inner grooved tubing	
Refrigerant co					pansion valve	
an type & Q'	ty			Tangential fan x 1	Propeller fan x1	
an motor (St	arting method)		W	56 x 1 < Direct line start >	86 < Direct line start >	
Air flow		Cooling	m³/min	Hi: 24.5 Me: 21.3 Lo: 17.6 ULo: 10.4	75	
AII IIOW		Heating	7 '''/''''' [Hi: 27.5 Me: 23.2 Lo: 19.1 ULo: 13.6	73	
Available exte	rnal static pressure	•	Pa	0	0	
Outside air int	take			Not possible	_	
Air filter, Quali	ty / Quantity			Polypropylene net (Washable) x 2	_	
	ition absorber		1	Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compresso	
lectric heater			W	_	20(Crank case heater)	
	Remote control		+	(Ontion) Wired : RC-EX3A RC-E5	RCH-E3 Interface kit : SC-BIKN2-E	
peration	Room temperature control		+ +		by electronics	
ontrol	Operation display		+ +			
	Operation display		+ +	RUN : Green, TIMER : Yellow, HI Po	OWER: Green, 3D AUTO: Green	
Safety equipm	nents			Overload protection for fan motor, Ir Frost protection thermostat, Abnorm	nternal thermostat for fan motor, nal discharge temperature protection	
	Refrigerant piping size (O.D)	Liquid line	mm	I/U φ 9.52 (3/8") Pipe φ 9.52		
	piping cize (O.D)	Gas line		φ 15.88 (5/8") φ 15.88((5/8")x1.0 φ 15.88 (5/8")	
	Connecting method			Flare piping	Flare piping	
nstallation	Attached length of piping			_	-	
ata	Insulation for piping			Necessary (both I	iquid & Gas lines)	
	Refrigerant line (one way) ler	ngth	m	Ma	x.50	
	Vertical height diff. between O/L	J and I/U	m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)	
Drain hose			Hose connectable with VP16 Hole size ϕ 20 x 3pc			
rain pump n	max lift height		mm			
	ed breaker size		A	-	<u> </u>	
	d rotor ampere)		A	5	5.0	
nterconnectin		Core number	_ ^		/ Terminal block (Screw fixing type)	
	ig wires SIZE X	COLE LIGHTINE		φ 1.6ππ x 3 cores + earth cable ;	(0 71 7	
number	ana via				IP24	
Standard acce	essories			Mounting kit, Clean filter	_	
Option parts				-	-	
lotes (1) The	e data are measured at the fol	lowing conditions	S.	The pipe length is 7.5	im.	

(1) The data are meas	ured at the follow	virig conditions	•		The pipe length is 7.5m.
Iter	n Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

			Model	SRK100	VSAWZR		
Item				Indoor unit SRK100ZR-W	Outdoor unit FDC100VSA-W		
Power source	•			3 Phase, 380 - 415	V 50Hz / 380V 60Hz		
	Nominal cooling capacity (range	9)	kW	10.0 [4.0(Min	.) - 11.2(Max.)]		
	Nominal heating capacity (range	e)	kW	11.2 [4.0(Min	.) - 12.5(Max.)]		
		Cooling	1	- '	19		
	Power consumption Heating		kW	3.19			
	Max power consumption	1	† ····		.20		
	max perior concernation	Cooling		·	/ 5.1		
	Running current	Heating	H A		/ 4.8		
	Inrush current, max current	rieating	⊣ ^ }		15		
Operation	illiusii current, max current	Cooling	+	•	95		
data	Power factor		- %		96		
	EER	Heating					
		Cooling	-		13		
	СОР	Heating	+ -	3.	68		
	Sound power level	Cooling	4	63	69		
		Heating	┥ ト		70		
	Sound pressure level	Cooling	dB(A)	P-Hi: 48 Hi: 45 Me: 40 Lo: 27	54		
	•	Heating	_	P-Hi: 48 Hi: 43 Me: 38 Lo: 30	55		
	Silent mode sound pressure lev	el			48 /44(Normal/Silent)		
	nsions (Height x Width x Depth)		mm	339 x 1,197 x 262	845 x 970 x 370		
Exterior appe				Fine snow	Stucco white		
(Munsell color	r)			(8.0Y9.3/0.1) near equivalent	(4.2Y7.5/1.1) near equivalent		
(RAL color)			1	(RAL 9003) near equivalent	(RAL 7044) near equivalent		
Net weight			kg	16.5	78		
Compressor t	<u> </u>				RMT5126SWP4×1		
	motor (Starting method)		kW		Direct line start		
Refrigerant oi	I (Amount, type)	-	L	_	0.9 (M-MB75)		
Refrigerant (1	Type, amount, pre-charge length)		kg	R32 3.3 in outdoor unit (Pre-charg	ged up to the piping length of 30m)		
Heat exchanger			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing			
Refrigerant co	ontrol			Electronic ex	pansion valve		
Fan type & Q'	ty			Tangential fan x1	Propeller fan x1		
Fan motor (St	arting method)		W	56 x 1 < Direct line start >	86 < Direct line start >		
Λ:,, fla		Cooling	3/	Hi: 24.5 Me: 21.3 Lo: 17.6 ULo: 10.4	75		
Air flow		Heating	m³/min	Hi: 27.5 Me: 23.2 Lo: 19.1 ULo: 13.6	73		
Available exte	ernal static pressure		Pa	0	0		
Outside air int	take			Not possible	_		
Air filter, Quali	itv / Quantitv			Polypropylene net (Washable) x 2	_		
	ation absorber	-		Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compresso		
Electric heate			W	_	20(Crank case heater)		
	Remote control			(Option) Wired: RC-EX3A, RC-E5.	RCH-E3 Interface kit : SC-BIKN2-E		
Operation	Room temperature control				by electronics		
control	Operation display				POWER: Green. 3D AUTO: Green		
	Operation display		+ +				
Safety equipn	nents			Overload protection for fan motor, Ir Frost protection thermostat, Abnorm	nternal thermostat for fan motor, nal discharge temperature protection		
	Refrigerant piping size (O.D)	Liquid line Gas line	mm	I/U φ 9.52 (3/8") Pipe φ 9.52 φ 15.88 (5/8") φ 15.88(2 (3/8")x0.8		
	Connecting method	J Gas III le	+ -	φ 13.88 (3/8) φ 13.88(Flare piping		
Installation	Attached length of piping		+ -	–	— — — —		
data	Insulation for piping		+	Nacassan (both I	 Liquid & Gas lines)		
	Refrigerant line (one way) length		m		x.50		
0 1 37 0		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)			
Vertical height diff. between O/U and I/U		m	Hose connectable with VP16	` '			
Drain hose				Hole size φ 20 x 3pcs			
	max lift height		mm		_		
	ed breaker size		A		_		
•	d rotor ampere)		A		5.0		
Interconnectir	ng wires Size x Co	re number			/ Terminal block (Screw fixing type)		
IP number		-		IPX0	IP24		
Standard acc	essories			Mounting kit, Clean filter	_		
Option parts					=		
Votos (1) The	data are measured at the follow	ing conditions					

The pipe length is 7.5m.

` '					
Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	Staridards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.

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(b) Twin type

Power source	Nominal cooling capacity (rai			Indoor unit SRK50ZSX-W (2 units) 1 Phase, 220 - 240'	Outdoor unit FDC100VNA-W V 50Hz / 220V 60Hz	
Power source	Nominal cooling capacity (ra			1 Phase, 220 - 240	V 50Hz / 220V 60Hz	
	Nominal cooling capacity (ra					
1	reciting oupdoing (ru	nge)	kW	10.0 [4.0(Min	.) - 11.2(Max.)]	
	Nominal heating capacity (ra	nge)	kW	11.2 [4.0(Min	ı.) - 12.5(Max.)]	
	B	Cooling		2.	89	
	Power consumption	Heating	kW	2.	.61	
	Max power consumption			6.	40	
		Cooling		12.7	/ 13.3	
	Inrush current, max current				/ 12.0	
-			┦ ¨ ㅏ		24	
Operation	madir darront, max darront	Cooling			99	
data	Power factor					
	EER	Heating Cooling	+ +		.46	
	COP		- - -			
	COP	Heating			.29	
	Sound power level	Cooling	_	59	69	
		Heating		62	70	
	Sound pressure level	Cooling	dB(A)	P-Hi: 44 Hi: 39 Me: 31 Lo: 22	54	
	Courta process to to:	Heating		P-Hi: 46 Hi: 41 Me: 33 Lo: 23	55	
	Silent mode sound pressure			_	48 /44(Normal/Silent)	
Exterior dimens	sions (Height x Width x Depth)		mm	305 x 920 x 220	845 x 970 x 370	
Exterior appear	rance			Fine snow	Stucco white	
(Munsell color)				(8.0Y9.3/0.1) near equivalent	(4.2Y7.5/1.1) near equivalent	
(RAL color)				(RAL 9003) near equivalent	(RAL 7044) near equivalent	
Net weight			kg	13	77	
Compressor typ	pe & Q'ty			_	RMT5126SWP3×1	
Compressor mo	otor (Starting method)		kW	_	Direct line start	
Refrigerant oil (Amount, type)		L	_	0.9 (M-MB75)	
	pe, amount, pre-charge length	n)	kg	B32 3 3 in outdoor unit (Pre-chard	ged up to the piping length of 30m)	
Heat exchange	, , ,	'/	I Ng	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing	
Refrigerant control		+		pansion valve		
			+ +			
Fan type & Q'ty			10/	Tangential fan x1	Propeller fan x1	
Fan motor (Star	rting method)	10 "	W	42 x 1 < Direct line start >	86 < Direct line start >	
Air flow		Cooling	→ m³/min ⊢	Hi: 14.3 Me: 12.4 Lo: 7.8 ULo: 5.4	75	
		Heating		Hi: 17.3 Me: 14.3 Lo: 9.8 ULo: 6.2	73	
	nal static pressure		Pa	0	0	
Outside air intal	ke			Not possible	_	
Air filter, Quality	/ / Quantity			Polypropylene net (Washable) x 2	_	
Shock & vibration	on absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compresso	
Electric heater			W	_	20(Crank case heater)	
	Remote control			(Option) Wired: RC-EX3A, RC-E5,	RCH-E3 Interface kit : SC-BIKN2-E	
Operation	Room temperature control			Thermostat b	by electronics	
control	Operation display			RUN: Green, TIMER: Yellow, ECO: Blue		
Safety equipme	ents			Overload protection for fan motor, li	· · · · · · · · · · · · · · · · · · ·	
	Definement minima view (C.D.)	Liquid line		I/U φ 6.35(1/4") ② φ 9.52(3/8")x0.8	① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8")	
	Refrigerant piping size (O.D)	Gas line	mm		① φ 15.88 (5/8")x1.0 φ 15.88 (5/8")	
ļ	Connecting method			Flare piping	Flare piping	
nstallation	Attached length of piping			_	_	
data	Insulation for piping		1	Necessary (both I	Liquid & Gas lines)	
ŀ	Refrigerant line (one way) ler	nath	m		x.50	
ŀ	Vertical height diff. between O/L		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)	
-	Drain hose			Hose connectable with VP16	Hole size ϕ 20 x 3pcs	
Oroin numer :					ι ιοιε δίζε ψ 20 χ δρύδ	
Orain pump, ma			mm		_	
Recommended			A			
L.R.A. (Locked			A		5.0	
nterconnecting	g wires Size x	Core number	\perp	•	/ Terminal block (Screw fixing type)	
				IPX0	IP24	
P number						
IP number Standard acces	ssories			Mounting kit, Clean filter	_	

` '	9							
Item	m Indoor air temperatu		Outdoor air temperature		Standards			
Operation	DB	WB	DB	WB	Standards			
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1			
Heating	20°C	_	7°C	6°C	ISO5151-H1			

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
- (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together. (7) Branching pipe set "DIS-WA1"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U

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ltom			Model		SAWPZSX	
Item				Indoor unit SRK50ZSX-W (2 units)	Outdoor unit FDC100VSA-W	
Power source				· · · · · · · · · · · · · · · · · · ·	V 50Hz / 380V 60Hz	
	Nominal cooling capacity (range)		kW		ı.) - 11.2(Max.)]	
	Nominal heating capacity (ran	<u> </u>	kW		ı.) - 12.5(Max.)]	
	Power consumption	Cooling	_	2.	.89	
	- ower concumption	Heating	kW		.61	
	Max power consumption			10	0.20	
	Running current	Cooling		4.2 / 4.4		
	Truming current	Heating	Α	3.8	/ 4.0	
O				5,	15	
Operation data			- %	Ş	99	
data	Fower ractor	Heating	70	Ş	99	
	EER	Cooling		3.	.46	
	COP	Heating	7 [4.	.29	
	0	Cooling		59	69	
	Sound power level	Heating	7 6	62	70	
		Cooling	dB(A)	P-Hi: 44 Hi: 39 Me: 31 Lo: 22	54	
	Sound pressure level	Heating	7 `´ -	P-Hi: 46 Hi: 41 Me: 33 Lo: 23	55	
	Silent mode sound pressure le		7 F	_	48 /44(Normal/Silent)	
Exterior dimer	nsions (Height x Width x Depth)		mm	305 x 920 x 220	845 x 970 x 370	
Exterior appea				Fine snow	Stucco white	
(Munsell color				(8.0Y9.3/0.1) near equivalent	(4.2Y7.5/1.1) near equivalent	
(RAL color)				(RAL 9003) near equivalent	(RAL 7044) near equivalent	
Net weight			kg	13	78	
Compressor t	type & Q'ty			_	RMT5126SWP4×1	
Compressor r	notor (Starting method)		kW	_	Direct line start	
· ·	I (Amount, type)		L	_	0.9 (M-MB75)	
	Type, amount, pre-charge length		kg	R32 3.3 in outdoor unit (Pre-chard	ged up to the piping length of 30m)	
Heat exchanger			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing		
Refrigerant co	<u>' </u>			• • •	pansion valve	
Fan type & Q'			+ +	Tangential fan x1	Propeller fan x1	
	arting method)		W	42 x 1 < Direct line start >	86 < Direct line start >	
· air motor (or	and the state of	Cooling	+ +	Hi: 14.3 Me: 12.4 Lo: 7.8 ULo: 5.4	75	
Air flow		Heating	⊢ m³/min ⊢	Hi: 17.3 Me: 14.3 Lo: 9.8 ULo: 6.2	73	
Available exte	ernal static pressure	Tricating	Pa	0	0	
Outside air int	<u>'</u>		1 α	Not possible	_	
Air filter, Quali	· · · · · · · · · · · · · · · · · · ·			Polypropylene net (Washable) x 2	_	
Shock & vibra	<u> </u>		+ +	Rubber sleeve(for fan motor)	Dubbar alaqua (for fan matar 8 aamprosaar	
Electric heate	· · · · · · · · · · · · · · · · · · ·		W	hubber sieeve(for fair filotor)	Rubber sleeve (for fan motor & compressor 20(Crank case heater)	
Electric fleate	Remote control		VV	(Ontion) Wind - DC EVOA DC E	,	
Operation	Room temperature control		+ +		RCH-E3 Interface kit : SC-BIKN2-E	
control	<u>'</u>		+ +		by electronics	
	Operation display			HUN: Green, HIMER	R: Yellow, ECO: Blue	
Safety equipn	nents			Overload protection for fan motor, In Frost protection thermostat, Abnorm	nternal thermostat for fan motor, nal discharge temperature protection	
	Pofrigorant pining size (C.D)	Liquid line	mm	I/U φ 6.35(1/4") ② φ 9.52(3/8")x0.8	① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8")	
	Refrigerant piping size (O.D)	Gas line	mm	φ 12.7 (1/2") ② φ 12.7(1/2")x0.8	① φ 15.88 (5/8")x1.0 φ 15.88 (5/8")	
	Connecting method			Flare piping	Flare piping	
Installation	Attached length of piping			_	_	
data	Insulation for piping			Necessary (both	Liquid & Gas lines)	
	Refrigerant line (one way) len	gth	m		x.50	
	Vertical height diff. between O/U		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)	
	Drain hose			Hose connectable with VP16	Hole size φ 20 x 3pcs	
Drain pump, r			mm		—	
	ed breaker size		A			
	d rotor ampere)		A		5.0	
Interconnectir	- ' ' ' 	ore number	_ ^		/ Terminal block (Screw fixing type)	
IP number	ig wires Size X C	ore number	+	φ 1.6mm x 3 cores + earm cable	IP24	
Standard acc	eseries		+	· · · · · · · · · · · · · · · · · · ·	IP24 -	
Option parts	C3301163			Mounting kit, Clean filter		
ODUOH DariS			1	•	_	

The pipe length is 7.5m.

` '					
Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	Staridards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
- (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together. (7) Branching pipe set "DIS-WA1"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U

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Itom			Model		NAWPZSX	
Item				Indoor unit SRK60ZSX-W (2 units)	Outdoor unit FDC125VNA-W	
Power source				· · · · · · · · · · · · · · · · · · ·	V 50Hz / 220V 60Hz	
	Nominal cooling capacity (ran		kW		.) - 14.0(Max.)]	
	Nominal heating capacity (ran	-	kW		.) - 16.0(Max.)]	
	Power consumption	Cooling	_	4.	54	
	- ower concumption	Heating	kW		58	
	Max power consumption			6.	.40	
	Running current	Cooling		19.9	/ 20.8	
	Truming current	Heating	Α	15.7	/ 16.4	
O	ation Inrush current, max current Power factor Cooling			5,	24	
Operation data			- %	Ş	99	
data	Fower lactor	Heating	76	Ş	99	
	EER	Cooling		2.	76	
	COP	Heating	7 [3.	91	
	0	Cooling		62	74	
	Sound power level	Heating	1 [63	- 71	
		Cooling	dB(A)	P-Hi: 44 Hi: 41 Me: 33 Lo: 22	54	
	Sound pressure level	Heating	1 ''	P-Hi: 46 Hi: 42 Me: 34 Lo: 23	56	
	Silent mode sound pressure le	evel	1	_	48 /45(Normal/Silent)	
Exterior dimer	nsions (Height x Width x Depth)		mm	305 x 920 x 220	845 x 970 x 370	
Exterior appea	arance			Fine snow	Stucco white	
(Munsell color				(8.0Y9.3/0.1) near equivalent	(4.2Y7.5/1.1) near equivalent	
(RAL color)				(RAL 9003) near equivalent	(RAL 7044) near equivalent	
Net weight			kg	13	77	
Compressor t	type & Q'ty			_	RMT5126SWP3×1	
Compressor r	notor (Starting method)		kW	_	Direct line start	
· ·	I (Amount, type)		L	_	0.9 (M-MB75)	
	Type, amount, pre-charge length		kg	R32 3.3 in outdoor unit (Pre-chard	ged up to the piping length of 30m)	
Heat exchanger			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing		
Refrigerant co	<u></u>			• • •	pansion valve	
Fan type & Q'			1	Tangential fan x1	Propeller fan x1	
	arting method)		W	42 x 1 < Direct line start >	86 < Direct line start >	
(01	and the state of	Cooling	1	Hi: 16.3 Me: 13.4 Lo: 8.9 ULo: 5.4	75	
Air flow		Heating	⊢ m³/min ⊢	Hi: 17.8 Me: 13.7 Lo: 10.9 ULo: 6.2	73	
Available exte	ernal static pressure	Tricating	Pa	0	0	
Outside air int			Ι α	Not possible	_	
Air filter, Quali	· · · · · · · · · · · · · · · · · · ·			Polypropylene net (Washable) x 2	_	
Shock & vibra	<u> </u>			Rubber sleeve(for fan motor)	Bubbar alagua (for fan matar 8 gampragaar	
Electric heate	· · · · · · · · · · · · · · · · · · ·		W	hubber sieeve(for fan fflotor)	Rubber sleeve (for fan motor & compressor 20(Crank case heater)	
Electric fleate			VV	(Ontion) Wind DC EVOA DC E	,	
Operation	Remote control			(Option) Wired: RC-EX3A, RC-E5, RCH-E3 Interface kit: SC-BIKN2-E		
control	Room temperature control				by electronics	
	Operation display			HUN: Green, HIMER	R: Yellow, ECO: Blue	
Safety equipn	nents			Overload protection for fan motor, lu Frost protection thermostat, Abnorn	nternal thermostat for fan motor, nal discharge temperature protection	
	Defrigarent pining sine (C.D.)	Liquid line	m-==	I/U φ 6.35(1/4") ② φ 9.52(3/8")x0.8	① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8")	
	Refrigerant piping size (O.D)	Gas line	mm	φ 12.7 (1/2") ② φ 12.7(1/2")x0.8	① φ 15.88 (5/8")x1.0 φ 15.88 (5/8")	
	Connecting method			Flare piping	Flare piping	
Installation	Attached length of piping				_	
data	Insulation for piping			Necessary (both	Liquid & Gas lines)	
	Refrigerant line (one way) len	gth	m		x.50	
	Vertical height diff. between O/U		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)	
	Drain hose			Hose connectable with VP16	Hole size φ 20 x 3pcs	
Drain pump, r			mm		—	
	ed breaker size		A			
	d rotor ampere)		A		5.0	
Interconnectir	- ' ' ' 	ore number	_ ^		/ Terminal block (Screw fixing type)	
IP number	ig wires Size X C	ore number	+ +	φ 1.6mm x 3 cores + earm cable	IP24	
Standard acc	eseries		+ +		IP24 -	
Option parts	C3301163		+ +	Mounting kit, Clean filter		
CAMOU DAILS			1	•	_	

The pipe length is 7.5m.

` '					
Item	Indoor air temperature		Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Staridards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
- (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together. (7) Branching pipe set "DIS-WA1"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U

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Item			Model		/SAWPZSX	
				Indoor unit SRK60ZSX-W (2 units)	Outdoor unit FDC125VSA-W SV 50Hz / 380V 60Hz	
Power source		>	134/			
	Nominal cooling capacity (range) Nominal heating capacity (range)		kW		n.) - 14.0(Max.)]	
	Nominal heating capacity (ran	- 	kW		n.) - 16.0(Max.)]	
	Power consumption	Cooling	┥ ┝		.54	
	•	Heating	kW		.58	
	Max power consumption				0.20	
	Running current Cooling Heating		_		/ 7.0	
			_ A _	5.2	/ 5.5	
Operation	Inrush current, max current Power factor Cooling				, 15	
data			- % -	(99	
		Heating	,,,		99	
	EER	Cooling		2	.76	
	COP	Heating		3	.91	
	Sound power level	Cooling		62	71	
	Sourid power level	Heating	7 [63	71	
	0	Cooling	dB(A)	P-Hi: 46 Hi: 41 Me: 33 Lo: 22	54	
	Sound pressure level	Heating	7 [P-Hi: 46 Hi: 42 Me: 34 Lo: 23	56	
	Silent mode sound pressure le	evel	1	_	48 /45(Normal/Silent)	
Exterior dimer	nsions (Height x Width x Depth)		mm	305 x 920 x 220	845 x 970 x 370	
Exterior appea				Fine snow	Stucco white	
(Munsell color				(8.0Y9.3/0.1) near equivalent	(4.2Y7.5/1.1) near equivalent	
(RAL color)	,			(RAL 9003) near equivalent	(RAL 7044) near equivalent	
Net weight			kg	13	78	
Compressor t	type & Q'ty			_	RMT5126SWP4×1	
Compressor r	notor (Starting method)		kW	_	Direct line start	
· ·	I (Amount, type)		L	_	0.9 (M-MB75)	
	Type, amount, pre-charge length)	kg	R32 3.3 in outdoor unit (Pre-chare	ged up to the piping length of 30m)	
Heat exchanger		1 3	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing		
Refrigerant co	<u></u>				cpansion valve	
Fan type & Q'			+ +	Tangential fan x1	Propeller fan x1	
	arting method)		W	42 x 1 < Direct line start >	86 < Direct line start >	
	and the state of	Cooling	+ +	Hi: 16.3 Me: 13.4 Lo: 8.9 ULo: 5.4	75	
Air flow		Heating	⊢ m³/min ⊢	Hi: 17.8 Me: 13.7 Lo: 10.9 ULo: 6.2	73	
Available exte	ernal static pressure	Treating	Pa	0	0	
Outside air int	<u>'</u>		Га	Not possible	_	
	· · · · · · · · · · · · · · · · · · ·		+	Polypropylene net (Washable) x 2	_	
Air filter, Quali	<u> </u>				Dubling along the factor of the Commence of th	
Shock & vibra	· · · · · · · · · · · · · · · · · · ·		100	Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor	
Electric heate			W	— — — — — — — — — — — — — — — — — — —	20(Crank case heater)	
Operation	Remote control				, RCH-E3 Interface kit : SC-BIKN2-E	
control	Room temperature control				by electronics	
	Operation display			RUN: Green, TIMER	R: Yellow, ECO: Blue	
Safety equipn	nents			Overload protection for fan motor, I Frost protection thermostat, Abnorn	nternal thermostat for fan motor, nal discharge temperature protection	
	Pofrigorant pining size (C.D.)	Liquid line	mm	I/U φ 6.35(1/4") ② φ 9.52(3/8")x0.8	① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8")	
	Refrigerant piping size (O.D)	Gas line	mm	φ 12.7 (1/2") ② φ 12.7(1/2")x0.8	① φ 15.88 (5/8")x1.0 φ 15.88 (5/8")	
	Connecting method	•		Flare piping	Flare piping	
Installation	Attached length of piping				_	
data	Insulation for piping			Necessary (both	Liquid & Gas lines)	
	Refrigerant line (one way) len	gth	m		ax.50	
	Vertical height diff. between O/U		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)	
	Drain hose		+ " +	Hose connectable with VP16	Hole size ϕ 20 x 3pcs	
Drain pump, r			mm	—	— — — — — — — — — — — — — — — — — — —	
	ed breaker size		A			
· · · · · · · · · · · · · · · · · · ·	d rotor ampere)	Core number	A			
Interconnectin	ig wires Size x C	ore number			/ Terminal block (Screw fixing type)	
IP number	annarian			IPX0	IP24	
Standard acco	essories		+ +	Mounting kit, Clean filter	_	
			1 1		_	

The pipe length is 7.5m.

` '					
Item	Indoor air temperature		Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Staridards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
- (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together. (7) Branching pipe set "DIS-WA1"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U

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Item			Model	SRK140V Indoor unit SRK71ZR-W (2 units)	NAWPZR Outdoor unit FDC140VNA-W	
Power source				1 Phase. 220 - 240\	l	
Power source	Naminal cooling capacity (ra	200)	kW	13.6 [5.0(Min.		
	Nominal cooling capacity (range) Nominal heating capacity (range)				<u> </u>	
	Nominal heating capacity (rai	<u> </u>	kW	15.5 [4.0(Min.	26	
	Power consumption	Cooling	- LAA7 -			
	N4	Heating	kW		03	
	Max power consumption	10 11		·	40	
	Running current	Cooling	┥. ┝		/ 19.6	
		Heating	_ A _		/ 18.5	
Operation	Inrush current, max current			5,		
data	Power factor	Cooling	- % -	9		
	Heating		,,,	9		
	EER	Cooling	_	3.	19	
	COP	Heating		3.	85	
	Sound power level	Cooling		57	72	
	Sound power level	Heating		60	73	
	Sound procesure level	Cooling	dB(A)	P-Hi: 44 Hi: 41 Me: 37 Lo: 25	56	
	Sound pressure level	Heating		P-Hi: 46 Hi: 39 Me: 35 Lo: 28	58	
	Silent mode sound pressure	level	7	_	49 /45(Normal/Silent)	
Exterior dimen	sions (Height x Width x Depth)		mm	339 x 1,197 x 262	845 x 970 x 370	
Exterior appea				Fine snow	Stucco white	
(Munsell color)				(8.0Y9.3/0.1) near equivalent	(4.2Y7.5/1.1) near equivalent	
(RAL color)				(RAL 9003) near equivalent	(RAL 7044) near equivalent	
Net weight			kg	15.5	77	
Compressor ty	pe & Q'ty			_	RMT5126SWP3×1	
Compressor m	notor (Starting method)		kW	_	Direct line start	
Refrigerant oil	(Amount, type)		L	_	0.9 (M-MB75)	
Refrigerant (T	ype, amount, pre-charge length	1)	kg	R32 3.3 in outdoor unit (Pre-charg	ed up to the piping length of 30m)	
Heat exchange	er			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing	
Refrigerant control			• • •	pansion valve		
Fan type & Q't		-		Tangential fan x1	Propeller fan x1	
Fan motor (Sta			w	56 < Direct line start >	86 < Direct line start >	
		Cooling	+ +	Hi: 20.5 Me: 18.6 Lo: 16.2 ULo: 10.4	75	
Air flow		Heating	─ m³/min ├	Hi: 25.0 Me: 19.8 Lo: 17.3 ULo: 13.3	73	
Available exter	rnal static pressure	ricating	Pa	0	0	
Outside air inta	· · · · · · · · · · · · · · · · · · ·		- Γα	Not possible	_	
Air filter, Qualit				Polypropylene net (Washable) x 2	_	
Shock & vibrat	·			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor	
Electric heater	·		W	nubber sleeve(for fail filotor)	` .	
Electric fleater			VV	Option) Wired: RC-EX3A, RC-E5, RCH-E3 Interface kit: SC-BIKN2. (Option) Wired: RC-EX3A, RC-E5, RCH-E3 Interface kit: SC-BIKN2.		
Operation	Remote control			, , ,		
control	Room temperature control			Thermostat by electronics		
	Operation display			RUN: Green , HIMER: Yellow , HI	POWER: Green , 3D AUTO: Green	
Safety equipments			Overload protection for fan motor, Internal thermostat for fan motor, Frost protection thermostat, Abnormal discharge temperature protectio			
Safety equipm	ients			Frost protection thermostat, Abnorm	an alconarge temperature protection	
Safety equipm	1	Liquid line		'	9 1 1	
Safety equipm	Refrigerant piping size (O.D)	Liquid line Gas line	mm	I/U φ 9.52(3/8") ② φ 9.52(3/8")x0.8	① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8")	
Safety equipm	1		mm -	I/U φ 9.52(3/8") ② φ 9.52(3/8")x0.8 φ 15.88 (5/8") ② φ 15.88(5/8")x1.0	0 1 1	
	Refrigerant piping size (O.D) Connecting method		mm	I/U φ 9.52(3/8") ② φ 9.52(3/8")x0.8 φ 15.88 (5/8") ② φ 15.88(5/8")x1.0 Flare piping	① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88 (5/8")x1.0 φ 15.88 (5/8")	
Safety equipm	Refrigerant piping size (O.D) Connecting method Attached length of piping		mm	I/U φ 9.52(3/8") ② φ 9.52(3/8")x0.8 φ 15.88 (5/8") ② φ 15.88(5/8")x1.0 Flare piping Liquid line: 0.78 / Gas line: 0.72	① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88 (5/8")x1.0 φ 15.88 (5/8") Flare piping	
Installation	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping	Gas line		I/U φ 9.52(3/8") ② φ 9.52(3/8")x0.8 φ 15.88 (5/8") ② φ 15.88(5/8")x1.0 Flare piping Liquid line : 0.78 / Gas line : 0.72 Necessary (both L	① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88 (5/8")x1.0 φ 15.88 (5/8") Flare piping	
Installation	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler	Gas line	m	I/U φ 9.52(3/8") ② φ 9.52(3/8")x0.8 φ 15.88 (5/8") ② φ 15.88(5/8")x1.0 Flare piping Liquid line : 0.78 / Gas line : 0.72 Necessary (both L	① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88 (5/8")x1.0 φ 15.88 (5/8") Flare piping — iquid & Gas lines)	
Installation	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/L	Gas line		I/U φ 9.52(3/8") ② φ 9.52(3/8")x0.8 φ 15.88 (5/8") ② φ 15.88(5/8")x1.0 Flare piping Liquid line: 0.78 / Gas line: 0.72 Necessary (both L Max Max.50 (Outdoor unit is higher)	① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88 (5/8")x1.0 φ 15.88 (5/8") Flare piping — iquid & Gas lines) κ.50 Max.15 (Outdoor unit is lower)	
Installation data	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/L Drain hose	Gas line	m m	I/U φ 9.52(3/8") ② φ 9.52(3/8")x0.8 φ 15.88 (5/8") ② φ 15.88(5/8")x1.0 Flare piping Liquid line : 0.78 / Gas line : 0.72 Necessary (both L	① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88 (5/8")x1.0 φ 15.88 (5/8") Flare piping — iquid & Gas lines)	
Installation data Drain pump, n	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/L Drain hose nax lift height	Gas line	m m	I/U φ 9.52(3/8") ② φ 9.52(3/8")x0.8 φ 15.88 (5/8") ② φ 15.88(5/8")x1.0 Flare piping Liquid line: 0.78 / Gas line: 0.72 Necessary (both L Max Max.50 (Outdoor unit is higher)	① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88 (5/8")x1.0 φ 15.88 (5/8") Flare piping — iquid & Gas lines) κ.50 Max.15 (Outdoor unit is lower)	
Installation data Drain pump, n Recommende	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/L Drain hose nax lift height d breaker size	Gas line	m m m	I/U φ 9.52(3/8") ② φ 9.52(3/8")x0.8 φ 15.88 (5/8") ② φ 15.88(5/8")x1.0 Flare piping Liquid line: 0.78 / Gas line: 0.72 Necessary (both L Max.50 (Outdoor unit is higher) Hose connectable with (VP16)	① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88 (5/8")x1.0 φ 15.88 (5/8") Flare piping — iquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs —	
Installation data Drain pump, m Recommende L.R.A. (Locked	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/L Drain hose nax lift height d breaker size	Gas line	m m	I/U φ 9.52(3/8") ② φ 9.52(3/8")x0.8 φ 15.88 (5/8") ② φ 15.88(5/8")x1.0 Flare piping Liquid line: 0.78 / Gas line: 0.72 Necessary (both L Max.50 (Outdoor unit is higher) Hose connectable with (VP16) —	① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88 (5/8")x1.0 φ 15.88 (5/8") Flare piping — Liquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs —	
Drain pump, n Recommende L.R.A. (Locked Interconnectin	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/L Drain hose nax lift height d breaker size	Gas line	m m	I/U φ 9.52(3/8") ② φ 9.52(3/8")x0.8 φ 15.88 (5/8") ② φ 15.88(5/8")x1.0 Flare piping Liquid line: 0.78 / Gas line: 0.72 Necessary (both L Max.50 (Outdoor unit is higher) Hose connectable with (VP16) — 5 φ 1.6mm x 3 cores + earth cable /	① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88 (5/8")x1.0 φ 15.88 (5/8") Flare piping — .iquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs — .0 / Terminal block (Screw fixing type)	
Drain pump, m Recommende L.R.A. (Locked Interconnectin	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/L Drain hose nax lift height d breaker size d rotor ampere) g wires Size x	Gas line	m m	I/U φ 9.52(3/8") ② φ 9.52(3/8")x0.8 φ 15.88 (5/8") ② φ 15.88(5/8")x1.0 Flare piping Liquid line: 0.78 / Gas line: 0.72 Necessary (both L Max.50 (Outdoor unit is higher) Hose connectable with (VP16)	① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88 (5/8")x1.0 φ 15.88 (5/8") Flare piping — Liquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs —	
Drain pump, n Recommende L.R.A. (Locked Interconnectin	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/L Drain hose nax lift height d breaker size d rotor ampere) g wires Size x	Gas line	m m	I/U φ 9.52(3/8") ② φ 9.52(3/8")x0.8 φ 15.88 (5/8") ② φ 15.88(5/8")x1.0 Flare piping Liquid line: 0.78 / Gas line: 0.72 Necessary (both L Max Max.50 (Outdoor unit is higher) Hose connectable with (VP16) — 5 φ 1.6mm x 3 cores + earth cable / IPX0	① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88 (5/8")x1.0 φ 15.88 (5/8") Flare piping — .iquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs — .0 / Terminal block (Screw fixing type)	

The	pipe	length	is	7.5m.

Item	Indoor air temperature		Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (6) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
 (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.
 (7) Branching pipe set "DIS-WA1"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U

Nominal cooling capacity (range)	Item			Model	Indoor unit SRK71ZR-W (2 units)	/SAWPZR Outdoor unit FDC140VSA-W			
Nominal heating capacity (range) NW 13.6 [5.0Min] - 14.5Miax.]						I.			
Nominal heating capacity (range)	1 OWEI SOUICE	Nominal cooling capacity (ra	nge)	k/M					
Power consumption						· · · · · ·			
Power consumption	Nominal fleating capacity (ra			KVV					
Max power consumption Running current Run		Power consumption		- kW	<u> </u>				
Poperation data A correct Heating Inrush current Heating Inrush current, max current Heating Selection (Selection Heating) Heating Selection (Selection Heating) Heating Selection (Selection Heating) Selection (Select		Max power consumption	ricating	- KW -					
Punning current, max current Power factor Cooling Heating EER Cooling GOP Heating Sound power level Cooling Heating Sound pressure level Heating Sound pressure level Heating Sound pressure level Cooling Heating Sound pressure level Heating Sound pressure Sound pressure level Heating Heating Sound pressure level Heating Sound pressure level Heating Heating Sound pressure level Heating		wax power consumption	Cooling	+					
Departion Departion December Decembe		Running current		\vdash \triangle					
Depart D		Inrush current may current	ricating	⊣ ^ ⊦					
Power factor	Operation	midsir current, max current	Cooling		<u> </u>				
EFR	data	Power factor Heating		- %	99				
COP				+					
Sound power level				⊣ ⊦					
Sound pressure level		COF		+					
Sound pressure level Cooling Heating H		Sound power level							
Sound pressure level Heating Silent mode sound pressure level Filenting Silenting Si				- dB(A)					
Silent mode sound pressure level		Sound pressure level		- GD(A) -					
Exterior dimensions (Height x Width x Depth)		Cilent made sound pressure		┥ ト	P-Hi. 40 Hi. 39 Me. 33 LO. 26				
Exterior appearance		·		mm	220 × 1 107 × 262	` ´			
Munsell color) (8,079,3/0.1) near equivalent (14,277,5/1.1) near equivalent (17,5/1.1) near equiva			1	111111					
(RAL color) (RAL 9003) near equivalent (RAL 7044) near equivalent Net weight kg 15.5 78 Compressor motor (Starting method) kW — RMT5126SWP. Compressor motor (Starting method) kW — Direct line stars Refrigerant (Type, amount, pre-charge length) kg R32 3.3 in outdoor unit (Pre-charged up to the piping length of Heat exchanger Refrigerant (Type, amount, pre-charge length) kg R32 3.3 in outdoor unit (Pre-charged up to the piping length of Heat exchanger Refrigerant (Type, amount, pre-charge length) kg R32 3.3 in outdoor unit (Pre-charged up to the piping length of Heat exchanger Refrigerant (Type, amount, pre-charge length) kg R32 3.3 in outdoor unit (Pre-charged up to the piping length of the piping length									
Net weight	`					(RAL 7044) near equivalent			
Compressor type & Q'ty Compressor motor (Starting method) Refrigerant (Type, amount, pre-charge length) Refrigerant control Refrigerant control Refrigerant control Refrigerant control Refrigerant control Refrigerant (Type, amount, pre-charge length) Refrigerant control Refrigerant control Refrigerant control Refrigerant (Pype, & O'ty Refr	,			ka					
Compressor motor (Starting method) Refrigerant (i) (Amount, type) Refrigerant (i) (Amount, type) Refrigerant (i) (ppe, amount, pre-charge length) Refrigerant (i) (ppe, amount, pre-charge length) Refrigerant control Refrigerant piping size (O.D) R		ne & O'ty		i iig		RMT5126SWP4×1			
L		<u>' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' </u>		kW/					
Refrigerant (Type, amount, pre-charge length) kg R32 3.3 in outdoor unit (Pre-charged up to the piping length of Louver fin & inner grooved tubing M shape fin & inner grooved fubing Electronic expansion valve Electronic expansion valve	•				_				
Louver fin & inner grooved tubing M shape fin & inner grooved tubing Electronic expansion valve			2)		R32 3 3 in outdoor unit (Pre-charc	, ,			
Refrigerant control Figure & City Fan type & City Fan type & City Fan motor (Starting method) Air filow File atting method File atti			'/	i i i i	, ,	, , , , , , , , , , , , , , , , , , , ,			
Fan type & Q'ty Fan motor (Starting method) Air flow Cooling Air flow Cooling Heating Available external static pressure Pa O Outside air intake Air fliter, Quality / Quantity Shock & vibration absorber Remote control Coperation Control Remote control Coperation Refrigerant piping size (O,D) Installation data Refrigerant line (one way) length Vertical height diff, between O/U and I/U Drain hose Drain pump, max lift height Recommended breaker size A Cooling Heating M S6 < Direct line start > 86 < Direct line start >			1						
Fan motor (Starting method) Air flow Cooling Heating Hi: 20.5 Me: 18.6 Lo: 16.2 ULo: 10.4 75 Hi: 25.0 Me: 19.8 Lo: 17.3 ULo: 13.3 73 Available external static pressure Pa 0 0 0 Outside air intake Polypropylene net (Washable) x 2			+						
Air flow			10/		·				
Available external static pressure Pa Outside air intake Available external static pressure Pa Outside air intake Available external static pressure Pa Outside air intake Not possible Polypropylene net (Washable) x 2 — Rubber sleeve(for fan motor) Rubber sleeve (for fan motor) Ruber sleeve (for fan mot	, , , , , , , , , , , , , , , , , , , ,		VV						
Available external static pressure Pa 0 Outside air intake Not possible — Air filter, Quality / Quantity Polypropylene net (Washable) x 2 — Air filter, Quality / Quantity Polypropylene net (Washable) x 2 — Air filter, Quality / Quantity Polypropylene net (Washable) x 2 — Rubber sleeve(for fan motor) Rubber sleeve (for fan motor) Electric heater W — 20(Crank case he 20(Crank cas	Air flow			m³/min					
Outside air intake Air filter, Quality / Quantity Polypropylene net (Washable) x 2 Rubber sleeve (for fan motor) Ruber sleeve (for fan motor) Rubrer sleeve for sleeve (for fan motor) Rubrer sleeve for sleeve for sleeve for fan motor, Internal thermostat sleeve for fan motor. Rubrer sleeve for sleeve for sleeve for sleeve for fan motor. Rubrer sleeve for sle	Available exter	rnal static proceura	rieating	Po					
Air filter, Quality / Quantity Shock & vibration absorber Remote control Operation control Operation display Refrigerant piping size (O.D) Installation data Attached length of piping Refrigerant line (one way) length Vertical height diff, between O/U and I/U Drain hose Drain pump, max lift height Recommended breaker size A L.R.A. (Locked rotor ampere) Insulator (Allergen clear filter x) Attached length of Piping Drain pump response of the description of the piping of the pi		· · · · · · · · · · · · · · · · · · ·		Га	<u>*</u>				
Shock & vibration absorber Electric heater Operation control Remote control Operation display Refrigerant piping size (O.D) Installation data Attached length of piping Attached length of piping Refrigerant line (one way) length Vertical height diff. between O/U and I/U Drain pump, max lift height Recommended breaker size A L.R.A. (Locked rotor ampere) Insumber Remote control W Coption) (Option) Wired: RC-EX3A, RC-E5, RCH-E3 Interface kit: SC-E (Application) Wiled: RC-EX3A, RC-E5, RCH-E3 (Application) Wiled: RC-EX3A, RC-E5, RCH-E3 (Application) Wiled: RC-EX3A, RC-E5 (Application) Wiled: RC-EX3A, RC-E5 (Application) Wiled: RC-EX3A, RC-E5 (Application) Wiled: RC-EX3A, RC-E5 (Application) Wiled:						_			
Remote control Reference control Referen		<u> </u>				Dubbar dans (for for motor 9 communication			
Remote control Rom temperature by electronics RUN: Green , TIMER: Yellow , HI POWER: Green , 3D AUTO:				10/	Rubber sleeve(for fan motor)	` .			
Room temperature control Coperation Control Coperation Control Coperation Coperation Coperation Coperation Coperation display RUN: Green , TIMER: Yellow , HI POWER: Green , 3D AUTO:	Electric fleater	1		VV	(Option) Wired: DC EVAA DC EF	, ,			
Refrigerant piping size (O.D) Liquid line Gas line Max.50	Operation								
Safety equipments Refrigerant piping size (O.D) Liquid line Gas line Too	control	<u>'</u>							
Frost protection thermostat, Abnormal discharge temperature pro Refrigerant piping size (O.D) Liquid line Gas line mm I/U \(\phi \) 9.52(3/8") \(\pri \) \(\phi \) 9.52(3/8") \(\pi \)		Operation display			RUN: Green , HMER: Yellow , H	POWER: Green , 3D AUTO: Green			
Retrigerant piping size (O.D) Gas line mm φ 15.88 (5/8") 2 φ 15.88(5/8")x1.0	Safety equipm	ents			Overload protection for fan motor, Internal thermostat for fan motor, Frost protection thermostat, Abnormal discharge temperature protect				
Gas line		Defrigerent pining sine (C.D.)	Liquid line	pe	I/U φ 9.52(3/8") ② φ 9.52(3/8")x0.8	① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8")			
Attached length of piping Liquid line: 0.78 / Gas line: 0.72 — Insulation data Attached length of piping Necessary (both Liquid & Gas lines) Refrigerant line (one way) length Max.50 Vertical height diff. between O/U and I/U Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit one way) Drain hose Hose connectable with (VP16) Hole size \$\phi\$ 20 x Drain pump, max lift height Max.50 Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number A 1.6mm x 3 cores + earth cable / Terminal block (Screw fixing IPX0 IP24 Mounting kit, Clean filter (Allergen clear filter x1, Photocatalytic)		nemgerani piping size (O.D)	Gas line	7 """	φ 15.88 (5/8") ② φ 15.88(5/8")x1.0	① φ 15.88 (5/8")x1.0 φ 15.88 (5/8")			
Insulation for piping Refrigerant line (one way) length Wertical height diff. between O/U and I/U Drain hose Drain pump, max lift height Recommended breaker size L.R.A. (Locked rotor ampere) Interconnecting wires Standard accessories Necessary (both Liquid & Gas lines) Max.50 Max.15 (Outdoor unit is higher) Max.15 (Connecting method			Flare piping	Flare piping			
Refrigerant line (one way) length m Max.50 Vertical height diff. between O/U and I/U m Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Drain hose Hose connectable with (VP16) Hole size \$\phi\$ 20 x Drain pump, max lift height mm Recommended breaker size A L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number \$\phi\$ 1.6mm x 3 cores + earth cable / Terminal block (Screw fixing IP number IPX0 IP24 Mounting kit, Clean filter \$\times (Allergen clear filter \times 1, Photocatalytic) Potocatalytic Refrigerant line (one way) length max.50 Max.50 Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Mounting kit, Clean filter \$\times 1, Photocatalytic Pax.	Installation	Attached length of piping			Liquid line: 0.78 / Gas line: 0.72				
Vertical height diff. between O/U and I/U m Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Drain hose Hose connectable with (VP16) Hole size φ 20 x Drain pump, max lift height mm — Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x 3 cores + earth cable / Terminal block (Screw fixing IPX0) IP number Mounting kit, Clean filter (Allergen clear filter ×1, Photocatalytic)	data	Insulation for piping			Necessary (both I	Liquid & Gas lines)			
Vertical height diff. between O/U and I/U m Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Drain hose Hose connectable with (VP16) Hole size φ 20 x Drain pump, max lift height mm — Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x 3 cores + earth cable / Terminal block (Screw fixing IPX0 IP number Mounting kit, Clean filter Standard accessories (Allergen clear filter ×1 , Photocatalytic		Refrigerant line (one way) le	ngth	m	Ma	x.50			
Drain pump, max lift height mm — Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x 3 cores + earth cable / Terminal block (Screw fixing IPX0 IP number IPX0 IP24 Mounting kit, Clean filter ×1, Photocatalytic Standard accessories (Allergen clear filter ×1, Photocatalytic)				m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)			
Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x 3 cores + earth cable / Terminal block (Screw fixing P number P number IPX0 IP24 Mounting kit, Clean filter (Allergen clear filter ×1 , Photocatalytic)		Drain hose			Hose connectable with (VP16)	Hole size φ 20 x 3pcs			
Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x 3 cores + earth cable / Terminal block (Screw fixing P number P number IPX0 IP24 Mounting kit, Clean filter (Allergen clear filter ×1 , Photocatalytic)	Drain pump, m	nax lift height		mm	_	_			
L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x 3 cores + earth cable / Terminal block (Screw fixing P number IPX0 IP24 Mounting kit, Clean filter (Allergen clear filter ×1, Photocatalytic)				+ +	-	<u>.</u>			
nterconnecting wires Size x Core number ϕ 1.6mm x 3 cores + earth cable / Terminal block (Screw fixing P number IPX0 IP24 Mounting kit, Clean filter (Allergen clear filter ×1, Photocatalytic					5	5.0			
P number IPX0 IP24 Mounting kit, Clean filter (Allergen clear filter ×1, Photocatalytic	•	· · · · · · · · · · · · · · · · · · ·	Core number						
Mounting kit, Clean filter Standard accessories (Allergen clear filter ×1, Photocatalytic		3 1 Jan 1			•				
		essories			Mounting kit, Clean filter (Allergen clear filter ×1, Photocatalytic				
washable deodorizing filter × 1) Option parts —									

The	pipe	length	is	7.5m.
1116	hihe	iengui	13	7.0111.

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	Stanuarus
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (6) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
 (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.
 (7) Branching pipe set "DIS-WA1"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U

(c) Triple type

14			Model		NAWTZSX			
tem				Indoor unit SRK50ZSX-W (3 units)	Outdoor unit FDC140VNA-W			
Power source					V 50Hz / 220V 60Hz			
	Nominal cooling capacity (rang	je)	kW	13.6 [5.0(Min	.) - 14.5(Max.)]			
	Nominal heating capacity (rang	je)	kW	15.5 [4.0(Min.) - 16.5(Max.)]				
	Power consumption	Cooling		4.26				
	1 ower consumption	Heating	kW	3.	74			
	Max power consumption			6.40				
	Running current	Cooling		18.7	/ 19.6			
	Turning current	Heating	A	16.4	/ 17.2			
)ti	Inrush current, max current			5,	24			
Operation lata	Power factor	Cooling	- %	Ş	99			
iata	Power lactor	Heating	70	9	99			
	EER Cooling			3.19				
	COP	Heating	1 [4.14				
	0	Cooling		57	72			
	Sound power level	Heating	1 [62	73			
		Cooling	dB(A)	P-Hi: 44 Hi: 39 Me: 31 Lo: 22	56			
	Sound pressure level	Heating	1 `	P-Hi: 46 Hi: 41 Me: 33 Lo: 23	58			
	Silent mode sound pressure le		1	_	49 /45(Normal/Silent)			
xterior dime	nsions (Height x Width x Depth)		mm	305 x 920 x 220	845 x 970 x 370			
xterior appea			 	Fine snow	Stucco white			
Munsell color				(8.0Y9.3/0.1) near equivalent	(4.2Y7.5/1.1) near equivalent			
RAL color)	,			(RAL 9003) near equivalent	(RAL 7044) near equivalent			
let weight		,	kg	13	77			
Compressor t	type & Q'ty			_	RMT5126SWP3×1			
compressor r	motor (Starting method)		kW	_	Direct line start			
	I (Amount, type)		L	_	0.9 (M-MB75)			
	Type, amount, pre-charge length)		kg	R32 3.3 in outdoor unit (Pre-chard	ged up to the piping length of 30m)			
leat exchang	*** *** ***		1 19	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing			
Refrigerant control				pansion valve				
an type & Q'				Tangential fan x1	Propeller fan x1			
	tarting method)		W	42 x 1 < Direct line start >	86 < Direct line start >			
arrinotor (ot	tarting metriody	Cooling	- **	Hi: 14.3 Me: 12.4 Lo: 7.8 ULo: 5.4	75			
ir flow		Heating	⊢ m³/min ⊢	Hi: 17.3 Me: 14.3 Lo: 9.8 ULo: 6.2	73			
vailable ovte	ernal static pressure	пеаші	Pa	0	0			
	<u> </u>		Fa	Not possible	_			
Outside air int			1	· · · · · · · · · · · · · · · · · · ·	_			
Air filter, Quali	· · · · · · · · · · · · · · · · · · ·			Polypropylene net (Washable) x 2	Dubbandon (for for motors)			
	ation absorber		W	Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compress			
lectric heate			VV		20(Crank case heater)			
Operation	Remote control							
' Boom temperature control				(Option) Wired: RC-EX3A, RC-E5,				
	Room temperature control			Thermostat	by electronics			
				Thermostat				
Safety equipn	Room temperature control Operation display			Thermostat I RUN: Green, TIMEF Overload protection for fan motor, I	oy electronics R: Yellow, ECO: Blue			
ontrol	Room temperature control Operation display ments	Liquid line		Thermostat I RUN: Green, TIMEF Overload protection for fan motor, In Frost protection thermostat, Abnorn	oy electronics R: Yellow, ECO: Blue Internal thermostat for fan motor,			
ontrol	Room temperature control Operation display	<u> </u>	- mm -	Thermostat I RUN: Green, TIMEF Overload protection for fan motor, II Frost protection thermostat, Abnorn I/U \(\phi \) 6.35(1/4") \(\hat{2} \phi \) 9.52(3/8")x0.8	oy electronics R: Yellow, ECO: Blue Internal thermostat for fan motor, nal discharge temperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8")			
ontrol	Room temperature control Operation display ments	Liquid line Gas line	- mm -	Thermostat I RUN: Green, TIMEF Overload protection for fan motor, II Frost protection thermostat, Abnorn I/U \(\phi \) 6.35(1/4") \(\hat{2} \phi \) 9.52(3/8")x0.8	oy electronics R: Yellow, ECO: Blue Internal thermostat for fan motor, Inal discharge temperature protection			
ontrol safety equipn	Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method	<u> </u>	- mm	Thermostat I RUN: Green, TIMEF Overload protection for fan motor, II Frost protection thermostat, Abnorn I/U ϕ 6.35(1/4") ② ϕ 9.52(3/8")x0.8 ϕ 12.7 (1/2") ② ϕ 12.7(1/2")x0.8	oy electronics R: Yellow, ECO: Blue Internal thermostat for fan motor, all discharge temperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88 (5/8")x1.0 φ 15.88 (5/8")			
ontrol afety equipn	Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping	<u> </u>	- mm	Thermostat I RUN: Green, TIMEF Overload protection for fan motor, In Frost protection thermostat, Abnorn I/U \(\phi \) 6.35(1/4") \(\hat{2} \phi \) 9.52(3/8")x0.8 \(\phi \) 12.7 (1/2") \(\hat{2} \phi \) 12.7(1/2")x0.8 Flare piping	oy electronics R: Yellow, ECO: Blue Internal thermostat for fan motor, Inal discharge temperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88 (5/8")x1.0 φ 15.88 (5/8") Flare piping —			
ontrol afety equipn	Room temperature control Operation display ments Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping	Gas line		Thermostat I RUN: Green, TIMEF Overload protection for fan motor, In Frost protection thermostat, Abnorn I/U \(\phi \) 6.35(1/4") \(\hat{2} \phi \) 9.52(3/8")x0.8 \(\phi \) 12.7 (1/2") \(\hat{2} \phi \) 12.7(1/2")x0.8 Flare piping Necessary (both	oy electronics R: Yellow, ECO: Blue Internal thermostat for fan motor, all discharge temperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88 (5/8")x1.0 φ 15.88 (5/8")			
ontrol afety equipn	Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng	Gas line	m	Thermostat I RUN: Green, TIMEF Overload protection for fan motor, II Frost protection thermostat, Abnorm I/U φ 6.35(1/4") ② φ 9.52(3/8")x0.8 φ 12.7 (1/2") ② φ 12.7(1/2")x0.8 Flare piping Necessary (both Ma	oy electronics R: Yellow, ECO: Blue Internal thermostat for fan motor, all discharge temperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88 (5/8")x1.0 φ 15.88 (5/8") Flare piping — Liquid & Gas lines)			
afety equipn	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a	Gas line		Thermostat I RUN: Green, TIMEF Overload protection for fan motor, II Frost protection thermostat, Abnorn I/U φ 6.35(1/4") ② φ 9.52(3/8")x0.8 φ 12.7 (1/2") ② φ 12.7(1/2")x0.8 Flare piping - Necessary (both Ma Max.50 (Outdoor unit is higher)	oy electronics R: Yellow, ECO: Blue Internal thermostat for fan motor, all discharge temperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88 (5/8")x1.0 φ 15.88 (5/8") Flare piping — Liquid & Gas lines) x.50 Max.15 (Outdoor unit is lower)			
afety equipn	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a	Gas line	m m	Thermostat I RUN: Green, TIMEF Overload protection for fan motor, In Frost protection thermostat, Abnorm I/U φ 6.35(1/4") ② φ 9.52(3/8")x0.8 φ 12.7 (1/2") ② φ 12.7(1/2")x0.8 Flare piping Necessary (both Ma Max.50 (Outdoor unit is higher) Hose connectable with VP16	oy electronics R: Yellow, ECO: Blue Internal thermostat for fan motor, Inal discharge temperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88 (5/8")x1.0 φ 15.88 (5/8") Flare piping — Liquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs			
ontrol safety equipn nstallation ata	Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose max lift height	Gas line	m m	Thermostat I RUN: Green, TIMEF Overload protection for fan motor, It Frost protection thermostat, Abnorm I/U φ 6.35(1/4") ② φ 9.52(3/8")x0.8 φ 12.7 (1/2") ② φ 12.7(1/2")x0.8 Flare piping Necessary (both Ma Max.50 (Outdoor unit is higher) Hose connectable with VP16	oy electronics R: Yellow, ECO: Blue Internal thermostat for fan motor, all discharge temperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88 (5/8")x1.0 φ 15.88 (5/8") — Flare piping — Liquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs			
ontrol afety equipn astallation ata ata ata arain pump, relecommende	Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose max lift height ad breaker size	Gas line	m m	Thermostat I RUN: Green, TIMEF Overload protection for fan motor, II Frost protection thermostat, Abnorm I/U φ 6.35(1/4") ② φ 9.52(3/8")x0.8 φ 12.7 (1/2") ② φ 12.7(1/2")x0.8 Flare piping Necessary (both Ma Max.50 (Outdoor unit is higher) Hose connectable with VP16	oy electronics R: Yellow, ECO: Blue Internal thermostat for fan motor, and discharge temperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88 (5/8")x1.0 φ 15.88 (5/8") Flare piping — Liquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs			
control Safety equipmentallation lata Orain pump, recommende	Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose max lift height ed breaker size d rotor ampere)	Gas line th nd I/U	m m	Thermostat I RUN: Green, TIMEF Overload protection for fan motor, II Frost protection thermostat, Abnorm I/U φ 6.35(1/4") ② φ 9.52(3/8")x0.8 φ 12.7 (1/2") ② φ 12.7(1/2")x0.8 Flare piping Necessary (both Ma Max.50 (Outdoor unit is higher) Hose connectable with VP16	oy electronics R: Yellow, ECO: Blue Internal thermostat for fan motor, and discharge temperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88 (5/8") x1.0 φ 15.88 (5/8") Flare piping — Liquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs — 6.0			
Cafety equipmental attainmental	Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose max lift height ed breaker size d rotor ampere)	Gas line	m m	Thermostat I RUN: Green, TIMEF Overload protection for fan motor, II Frost protection thermostat, Abnorm I/U φ 6.35(1/4") ②φ 9.52(3/8")x0.8 φ 12.7 (1/2") ②φ 12.7(1/2")x0.8 Flare piping Necessary (both Ma Max.50 (Outdoor unit is higher) Hose connectable with VP16 φ 1.6mm x 3 cores + earth cable	oy electronics R: Yellow, ECO: Blue Internal thermostat for fan motor, and discharge temperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88 (5/8")x1.0 φ 15.88 (5/8") Flare piping — Liquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs — 6.0 / Terminal block (Screw fixing type)			
Cafety equipmentallation lata Drain pump, recommendeR.A. (Lockernterconnectine pumber	Room temperature control Operation display ments Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose max lift height ad breaker size d rotor ampere) ng wires Size x Co	Gas line th nd I/U	m m	Thermostat I RUN: Green, TIMEF Overload protection for fan motor, II Frost protection thermostat, Abnorn I/U φ 6.35(1/4") ② φ 9.52(3/8")x0.8 φ 12.7 (1/2") ② φ 12.7(1/2")x0.8 Flare piping Necessary (both Ma Max.50 (Outdoor unit is higher) Hose connectable with VP16 φ 1.6mm x 3 cores + earth cable IPX0	oy electronics R: Yellow, ECO: Blue Internal thermostat for fan motor, and discharge temperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88 (5/8")x1.0 φ 15.88 (5/8") Flare piping — Liquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs — 6.0			
Safety equipn nstallation lata Drain pump, recommende	Room temperature control Operation display ments Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U a Drain hose max lift height ad breaker size d rotor ampere) ng wires Size x Co	Gas line th nd I/U	m m	Thermostat I RUN: Green, TIMEF Overload protection for fan motor, II Frost protection thermostat, Abnorm I/U φ 6.35(1/4") ②φ 9.52(3/8")x0.8 φ 12.7 (1/2") ②φ 12.7(1/2")x0.8 Flare piping Necessary (both Ma Max.50 (Outdoor unit is higher) Hose connectable with VP16 φ 1.6mm x 3 cores + earth cable	oy electronics R: Yellow, ECO: Blue Internal thermostat for fan motor, and discharge temperature protection ① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88 (5/8")x1.0 φ 15.88 (5/8") Flare piping — Liquid & Gas lines) x.50 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3pcs — 6.0 / Terminal block (Screw fixing type)			

` '		O			
Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	Staridards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
- (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together. (7) Branching pipe set "DIS-TA1"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U

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Item			Model		SAWTZSX			
				Indoor unit SRK50ZSX-W (3 units)	Outdoor unit FDC140VSA-W			
Power source			134	,	V 50Hz / 380V 60Hz			
Nominal cooling capacity (range)		kW		n.) - 14.5(Max.)]				
	Nominal heating capacity (ran	-	kW	- '	(Min.) - 16.5(Max.)]			
	Power consumption Cooling		┦ ├	4.26				
		Heating	kW		.74			
	Max power consumption			10.20				
	Running current	Cooling	_	6.5 / 6.2 5.8 / 5.5 5, 15				
	- Idaming Carrotte	Heating	_ A _					
Operation	Inrush current, max current							
data			- % -	9	99			
data			/ / /	98				
			_	3.	.19			
	COP	Heating		4.	.14			
	Sound power level	Cooling		59	72			
	Souria power level	Heating		62	73			
	Sound procesure level	Cooling	dB(A)	P-Hi: 44 Hi: 39 Me: 31 Lo: 22	56			
	Sound pressure level	Heating	7 [P-Hi: 46 Hi: 41 Me: 33 Lo: 23	58			
	Silent mode sound pressure le	evel	7	_	49 /45(Normal/Silent)			
Exterior dimer	nsions (Height x Width x Depth)		mm	305 x 920 x 220	845 x 970 x 370			
Exterior appea	arance			Fine snow	Stucco white			
(Munsell color				(8.0Y9.3/0.1) near equivalent	(4.2Y7.5/1.1) near equivalent			
(RAL color)				(RAL 9003) near equivalent	(RAL 7044) near equivalent			
Net weight			kg	13	78			
Compressor t	type & Q'ty			_	RMT5126SWP4×1			
Compressor r	notor (Starting method)		kW	_	Direct line start			
Refrigerant oil	I (Amount, type)		L	_	0.9 (M-MB75)			
Refrigerant (T	Type, amount, pre-charge length)	kg	R32 3.3 in outdoor unit (Pre-chard	ged up to the piping length of 30m)			
Heat exchanger			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing				
Refrigerant control				pansion valve				
Fan type & Q'				Tangential fan x1	Propeller fan x1			
	arting method)		W	42 x 1 < Direct line start >	86 < Direct line start >			
,	3 2 2 7	Cooling		Hi: 14.3 Me: 12.4 Lo: 7.8 ULo: 5.4	75			
Air flow		Heating	m³/min	Hi: 17.3 Me: 14.3 Lo: 9.8 ULo: 6.2	73			
Available exte	ernal static pressure	1.1049	Pa	0	0			
Outside air int			+	Not possible	_			
Air filter, Quali			+ +	Polypropylene net (Washable) x 2	_			
Shock & vibra	· · · · · · · · · · · · · · · · · · ·		+ +	Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor			
Electric heate			W	- 20(Crank case heater)				
Licetile ficate	Remote control		+ **	(Option) Wired : RC-EY3A RC-E5	,			
Operation	Room temperature control			(Option) Wired: RC-EX3A, RC-E5, RCH-E3 Interface kit: SC-BIKN2-E Thermostat by electronics				
control	Operation display		+		.*			
	Operation display		+ +	RUN: Green, TIMER: Yellow, ECO: Blue				
Safety equipn	nents			Overload protection for fan motor, Ir Frost protection thermostat, Abnorm	nternal thermostat for fan motor, nal discharge temperature protection			
	Pofrigorant pining size (C.D)	Liquid line	mm	I/U φ 6.35(1/4") ② φ 9.52(3/8")x0.8	① φ 9.52(3/8")x0.8 O/U φ 9.52 (3/8")			
	Refrigerant piping size (O.D)	Gas line	mm	φ 12.7 (1/2") ②φ 12.7(1/2")x0.8	① φ 15.88 (5/8")x1.0 φ 15.88 (5/8")			
	Connecting method			Flare piping	Flare piping			
Installation	Attached length of piping			_	_			
data	Insulation for piping			Necessary (both Liquid & Gas lines)				
	Refrigerant line (one way) len	11 0		Max.50				
		Vertical height diff. between O/U and I/U		Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is low				
	Drain hose		m	Hose connectable with VP16	Hole size φ 20 x 3pcs			
Drain pump, r			mm		—			
	ed breaker size		A					
	d rotor ampere)		A		5.0			
Interconnectir		Core number			/ Terminal block (Screw fixing type)			
IP number	ig willog	JOIN HUITIDEI	+	Ψ 1.6ππ x 3 cores + earth cable	IP24			
Standard acc	essories			Mounting kit, Clean filter	IF24 –			
Option parts	C330: IG3			Mounting Rt., Olean litter				
COUGH DAILS			1					

The pipe length is 7.5m.

` '		U			
Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	Staridards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

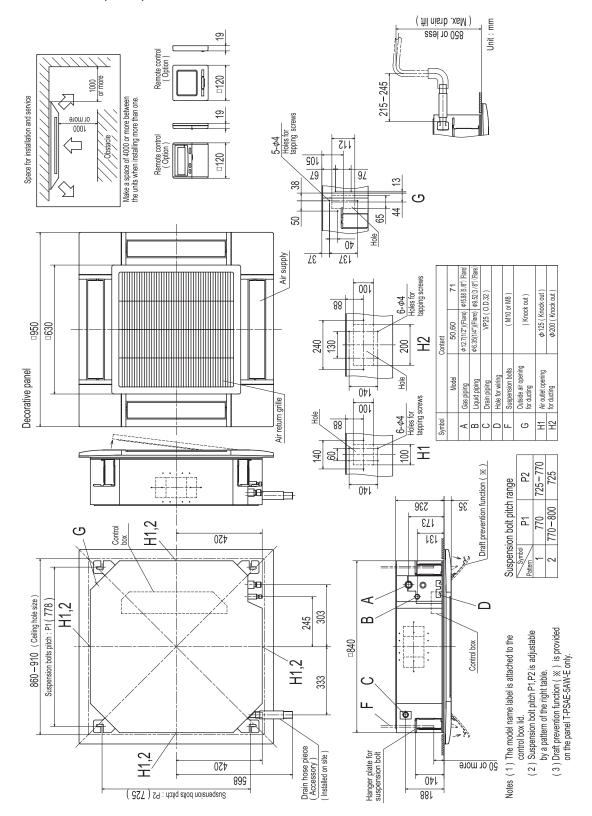
- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
- (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.
- (7) Branching pipe set "DIS-TA1"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U

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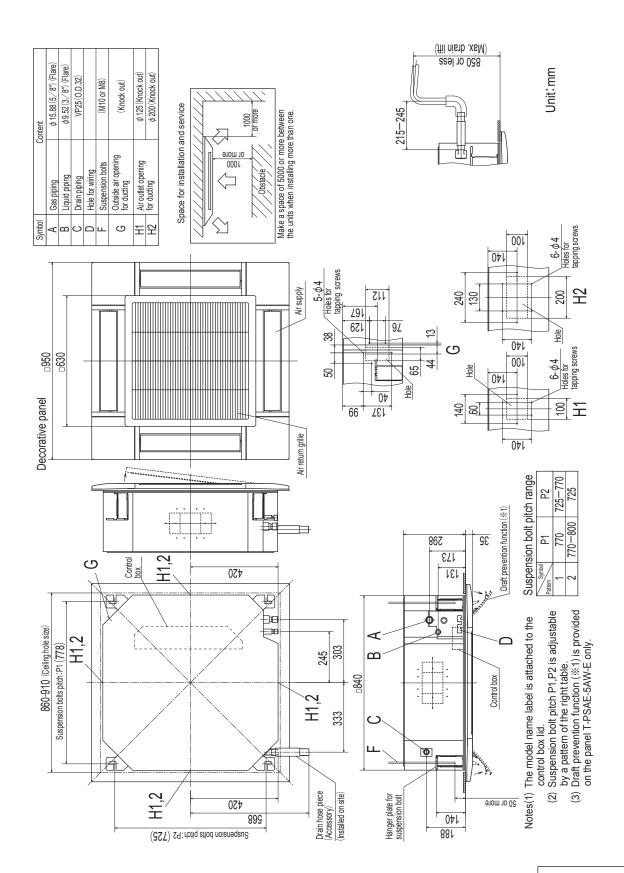
1.2 EXTERIOR DIMENSIONS

- (1) Indoor units
 - (a) Ceiling cassette-4 way type (FDT)
 Models FDT50VH, 60VH, 71VH



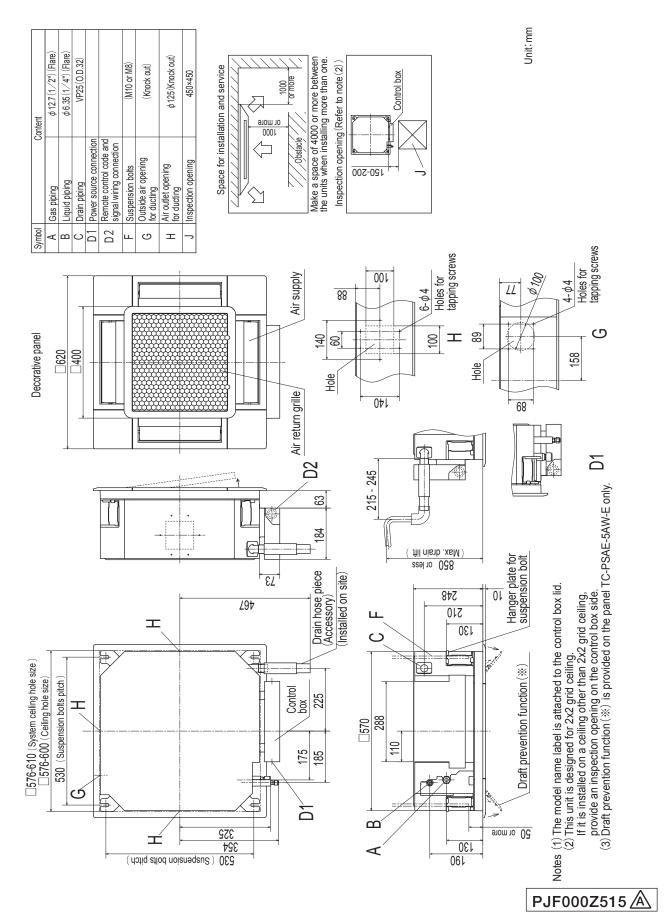
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Models FDT100VH, 125VH, 140VH

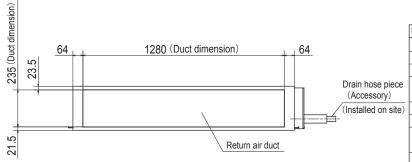


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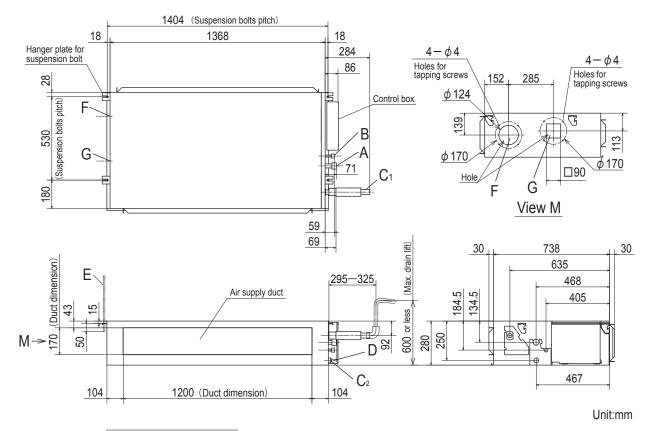
(b) Ceiling cassette-4 way compact type (FDTC) Models FDTC50VH, 60VH



(c) Duct connected-High static pressure type(FDU) Models FDU100VH, 125VH, 140VH

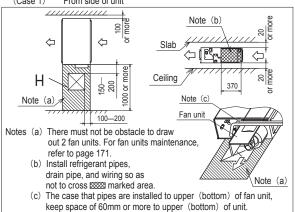


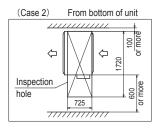
Symbol		Content
Α	Gas piping	φ 15.88 (5/8") (Flare)
В	Liquid piping	ϕ 9.52 (3/8") (Flare)
C ₁	Drain piping	VP25 (O.D.32)
	Drain piping	VP20
C ₂	(Gravity drainage)	VFZU
D	Hole for wiring	
E	Suspension bolts	M10
F	Outside air opening	(Knock out)
	for ducting	(MIOCK OUL)
G	Air outlet opening	(Knock out)
G	for ducting	(MIOCK OUL)
Н	Inspection hole	(450×450)



Space for installation and service

Select either of two cases to keep space for installation and services. (Case 1) From side of unit

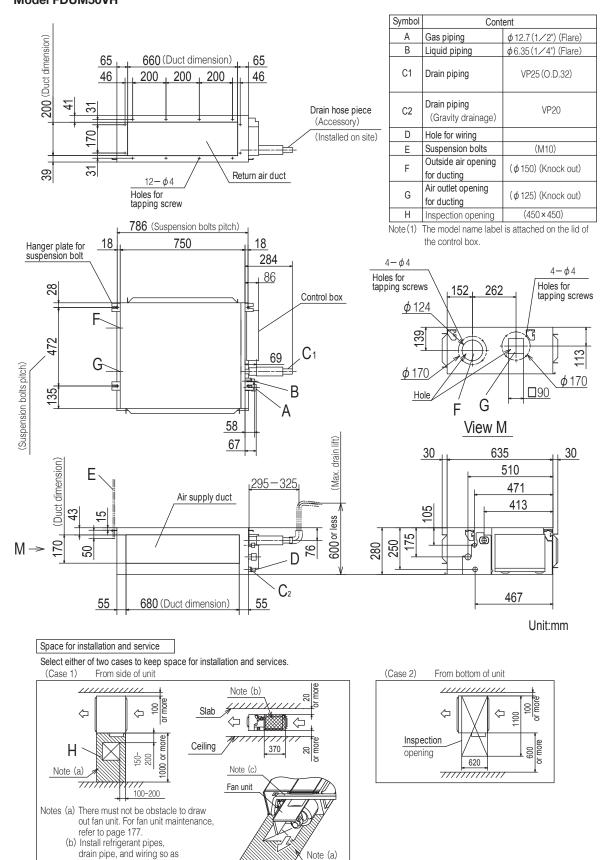




Note (1) The model name label is attached on the lid of the control box.

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(d) Duct connected-Low / Middle static pressure type (FDUM) Model FDUM50VH



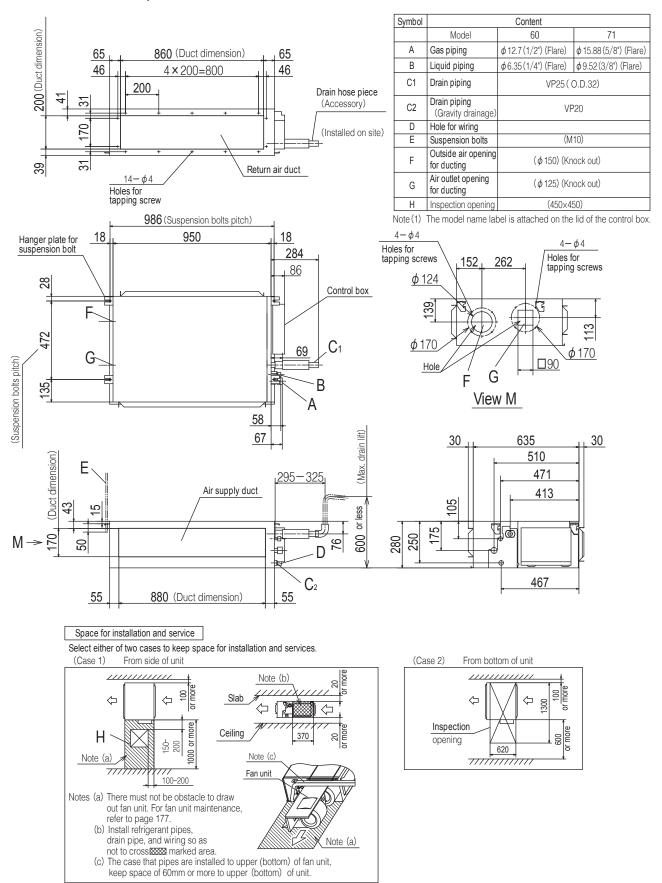
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not to cross marked area.

(c) The case that pipes are installed to upper (bottom) of fan unit, keep space of 60mm or more to upper (bottom) of unit.

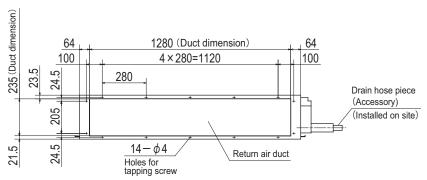
Note (a)

Models FDUM60VH, 70VH

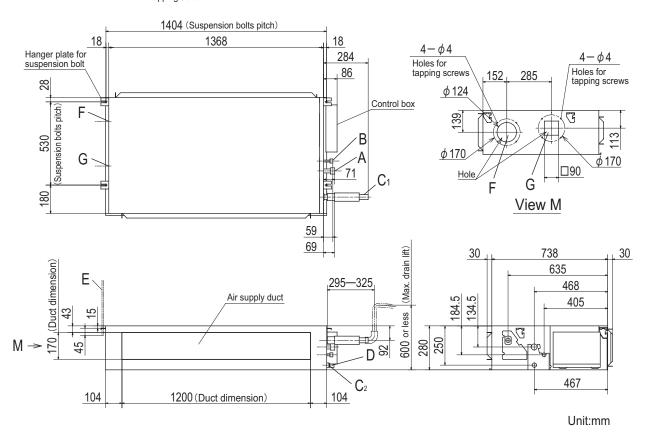


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Models FDUM100VH, 125VH, 140VH

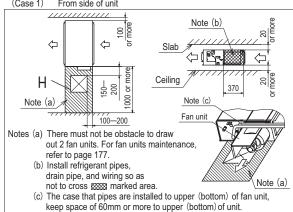


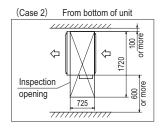
Symbol	Cor	ntent
Α	Gas piping	φ 15.88 (5/8") (Flare)
В	Liquid piping	φ 9.52 (3/8") (Flare)
C ₁	Drain piping	VP25 (O.D.32)
C ₂	Drain piping (Gravity drainage)	VP20
D	Hole for wiring	
Е	Suspension bolts	(M10)
F	Outside air opening for ducting	(φ 150) (Knock out)
G	Air outlet opening for ducting	(φ 125) (Knock out)
Н	Inspection opening	(450×450)



Space for installation and service

Select either of two cases to keep space for installation and services. (Case 1) From side of unit

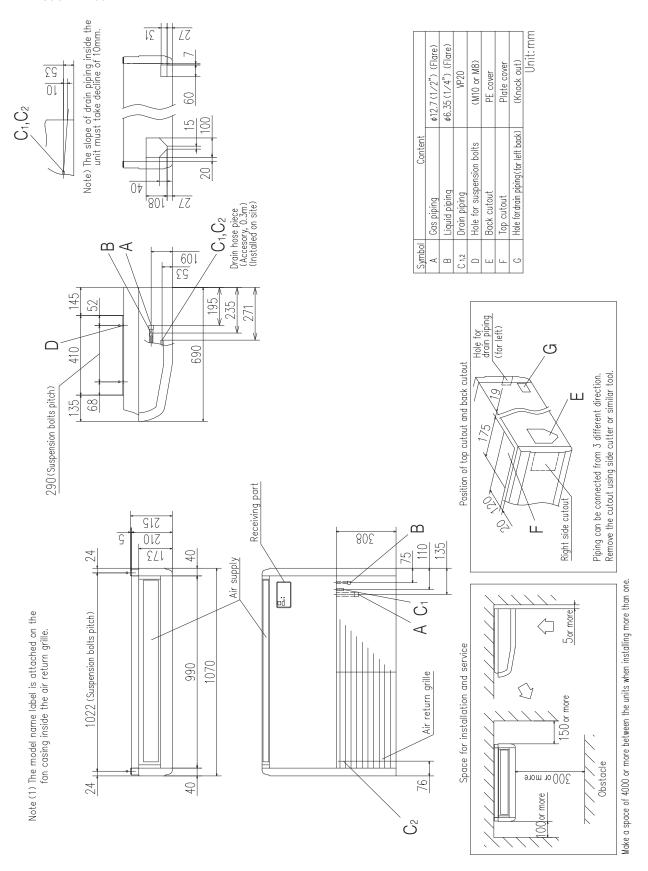




Note (1) The model name label is attached on the lid of the control box.

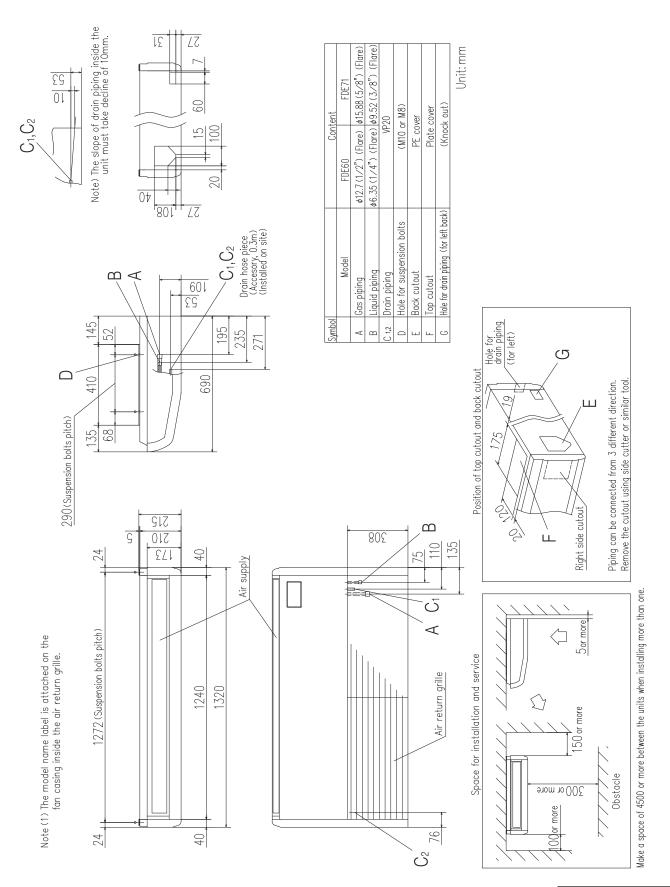
PJG000Z487

(e) Ceiling suspended type (FDE) Model FDE50VH



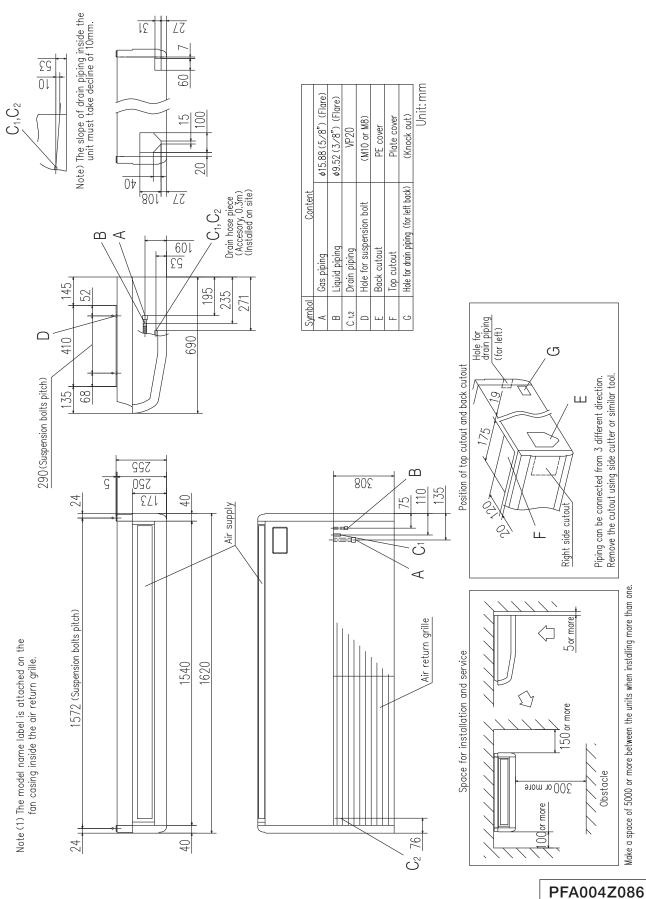
PFA004Z084

Models FDE60VH, 71VH

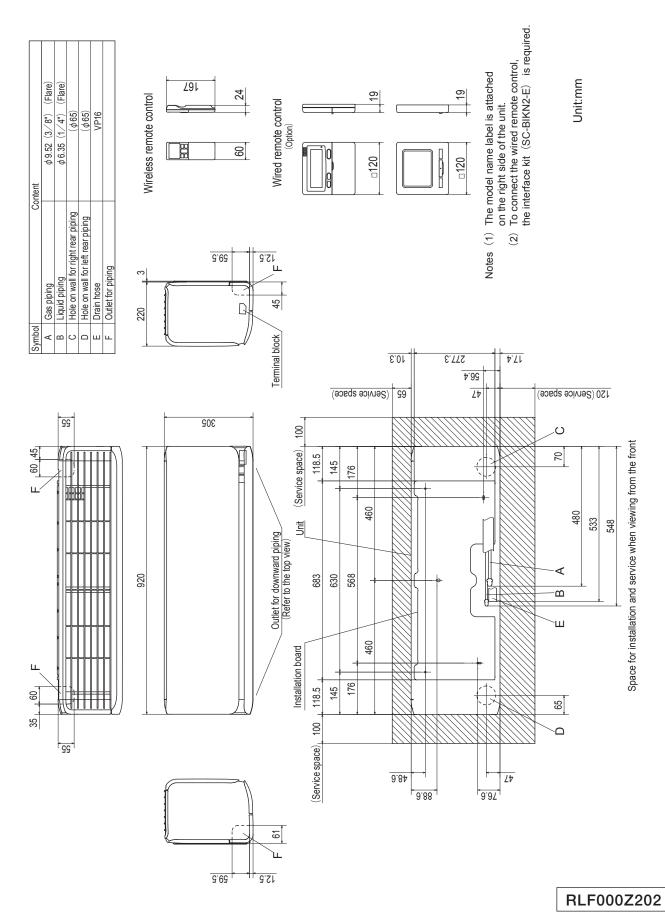


PFA004Z085

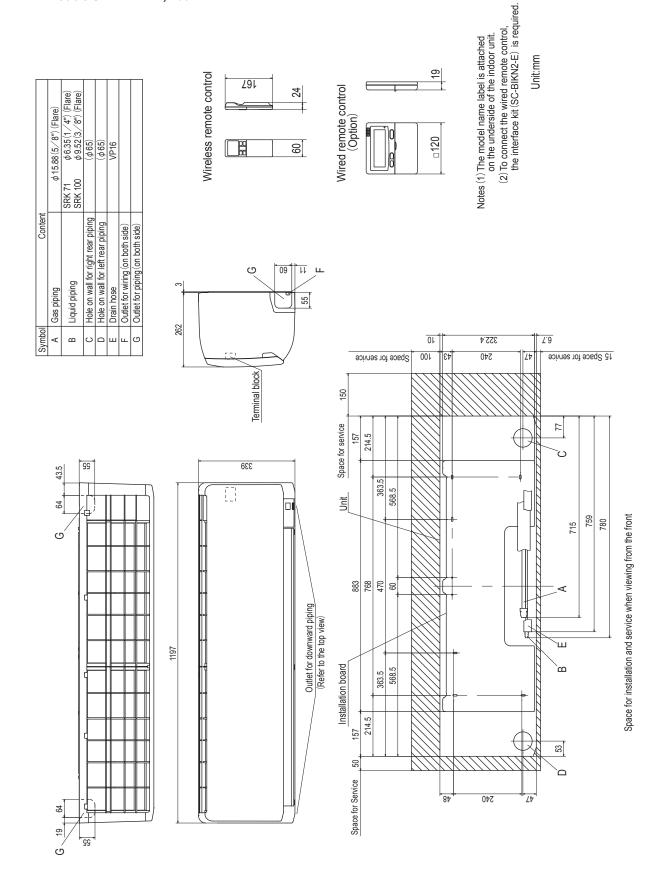
Models FDE100VH, 125VH, 140VH



(f) Wall mounted type (SRK) Models SRK50ZSX-W, 60ZSX-W

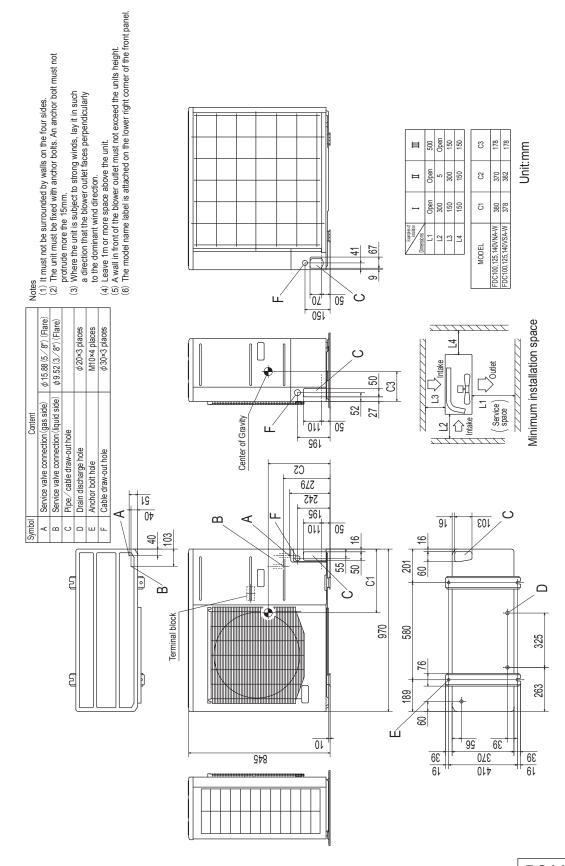


Models SRK71ZR-W, 100ZR-W



RLD000Z005<u>A</u>

(2) Outdoor units Model FDC100VNA-W, 125VNA-W, 140VNA-W 100VSA-W, 125VSA-W, 140VSA-W



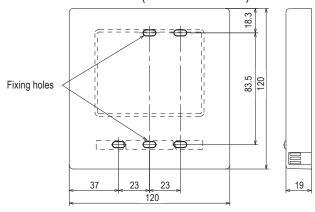
PCA001Z853

(3) Remote control (Option parts)

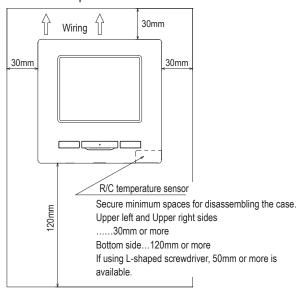
(a) Wired remote control

Model RC-EX3A

Dimensions (Viewed from front)



Installation space



• Do not install the remote control at following places.

- 1) It could cause break-down or deformation of remote control.
 - · Where it is exposed to direct sunlight
 - Where the ambient temperature becomes 0 °C or below, or 40 °C or above
 - · Where the surface is not flat
 - · Where the strength of installation area is insufficient
- 2) Moisture may be attached to internal parts of the remote control, resulting in a display failure.
 - · Place with high humidity where condensation occurs on the remote control
 - · Where the remote control gets wet
- 3) Accurate room temperature may not be detected using the temperature sensor of the remote control.
 - Where the average room temperature cannot be detected
 - Place near the equipment to generate heat
 - Place affected by outside air in opening/closing the door
 - Place exposed to direct sunlight or wind from air-conditioner
 - · Where the difference between wall and room temperature is large
- 4) When you are using the automatic grille up and down panel in the IU, you may not be able to confirm the up and down motion.
 - · Where the IU cannot be visually confirmed

R/C cable:0.3mm²x2 cores

When the cable length is longer than 100 m, the max size for wires used in the R/C case is $0.5~\text{mm}^2$. Connect them to wires of larger size near the outside of R/C. When wires are connected, take measures to prevent water, etc. from entering inside.

≦ 200 m	0.5 mm ² x 2 cores
≤ 300m	0.75 mm ² x 2 cores
≤ 400m	1.25 mm ² x 2 cores
≤ 600m	2.0 mm ² x 2 cores

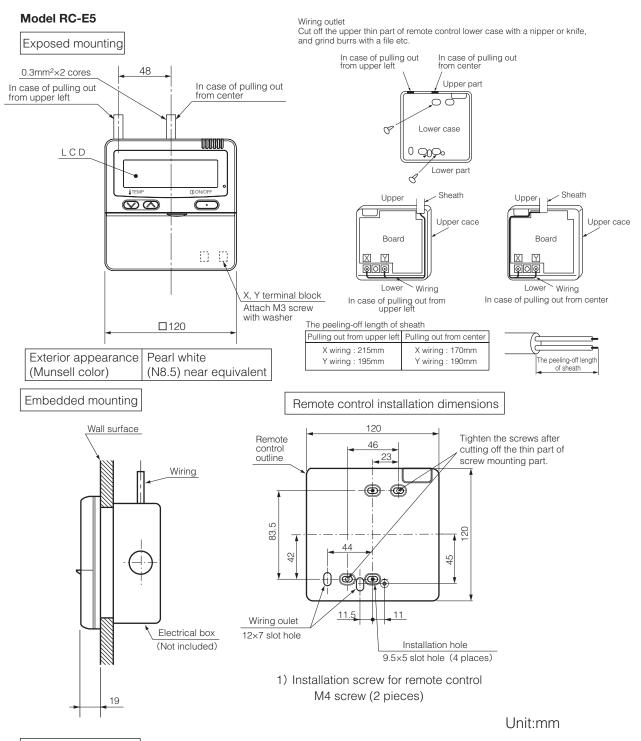
When installing the unit at a hospital, telecommunication facility, etc., take measures to suppress electric noises.

It could cause malfunction or break-down due to hazardous effects on the inverter, private power generator, high frequency medical equipment, radio communication equipment, etc.

The influences transmitted from the remote control to medical or communication equipment could disrupt medical activities, video broadcasting or cause noise interference.

Adapted RoHS directive

PJZ000Z333



Wiring specifications

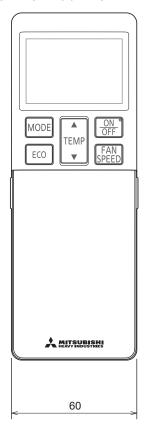
If the prolongation is over 100m, change to the size below.
 But, wiring in the remote control case should be under 0.5mm². Change the wire size outside of
the case according to wire connecting. Waterproof treatment is necessary at the wire connecting
section. Be careful about contact failure.

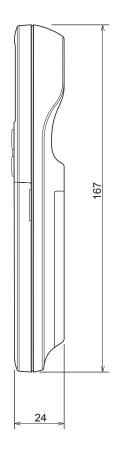
Length	Wiring thickness
100 to 200m	0.5mm ² ×2 cores
Under 300m	0.75mm ² ×2 cores
Under 400m	1.25mm ² ×2 cores
Under 600m	2.0mm ² ×2 cores

PJZ000Z295

(b) Wireless remote control

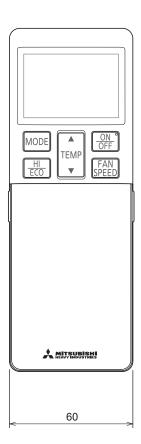
RCN-E2(Option parts) (Except SRK series)

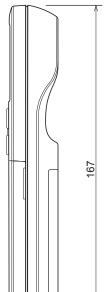




Unit: mm

SRK series only



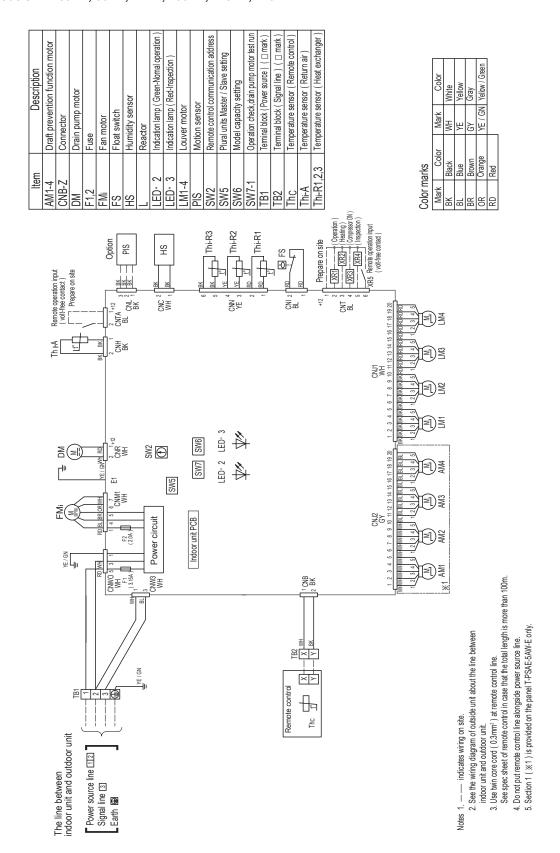


24

Unit: mm

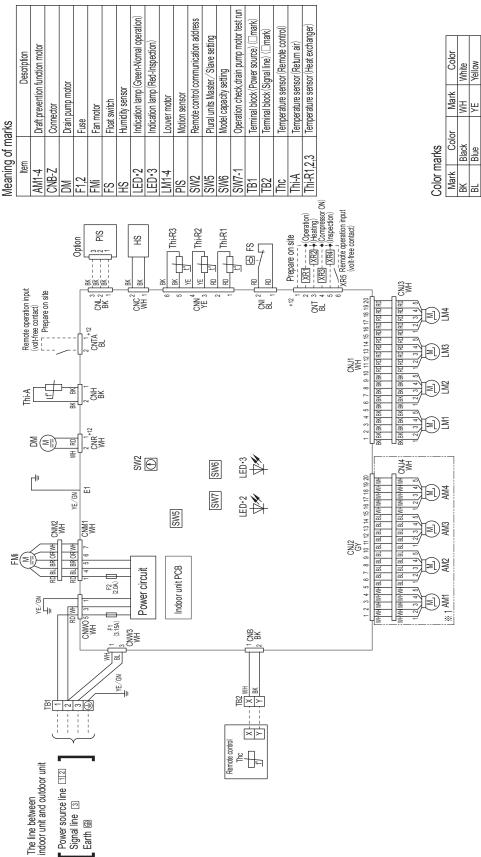
1.3 ELECTRICAL WIRING

- (1) Indoor units
 - (a) Ceiling cassette-4 way type (FDT)
 Models FDT50VH, 60VH, 71VH, 100VH, 125VH, 140VH



PJF000Z554

(b) Ceiling casette-4 way compact type (FDTC) Models FDTC50VH, 60VH



Gray Orange Red Brown Mark BR BR OR OR

Notes 1. - - - - indicates wiring on site.

2. See the wiring diagram of outdoor unit about the line between indoor unit and outdoor unit.

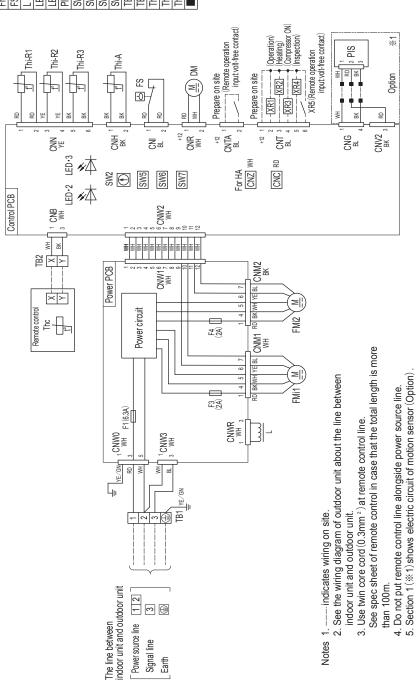
Use twin core $cord(0.3mm^2)$ at remote control line. Do not put remote control line alongside power source line. Draft prevention function (% 1) is provided on the panel TC-PSAE-5AW-E only.

PJF000Z516 🗥

(c) Duct connected-High static pressure type (FDU) Models FDU100VH, 125VH, 140VH

Meaning of marks	narks
ltem	Description
CNB-Z	Connector
DM	Drain pump motor
F1,3,4	Fuse
FMi1,2	Fan motor
FS	Float switch
7	Reactor
LED•2	Indication lamp (Green-Normal operation)
LED•3	Indication lamp (Red-Inspection)
PIS	Motion sensor
SW2	Remote control communication address
SW5	Plural units Master / Slave setting
SW6	Model capacity setting
SW7-1	Operation check, drain pump motor test run
TB1	Terminal block (Power source) (□mark)
TB2	Terminal block (Signal line) (□mark)
Thc	Temperature sensor (Remote control)
Thi-A	Temperature sensor (Return air)
Thi-R1,2,3	Temperature sensor (Heat exchanger)
mark	Closed-end connector

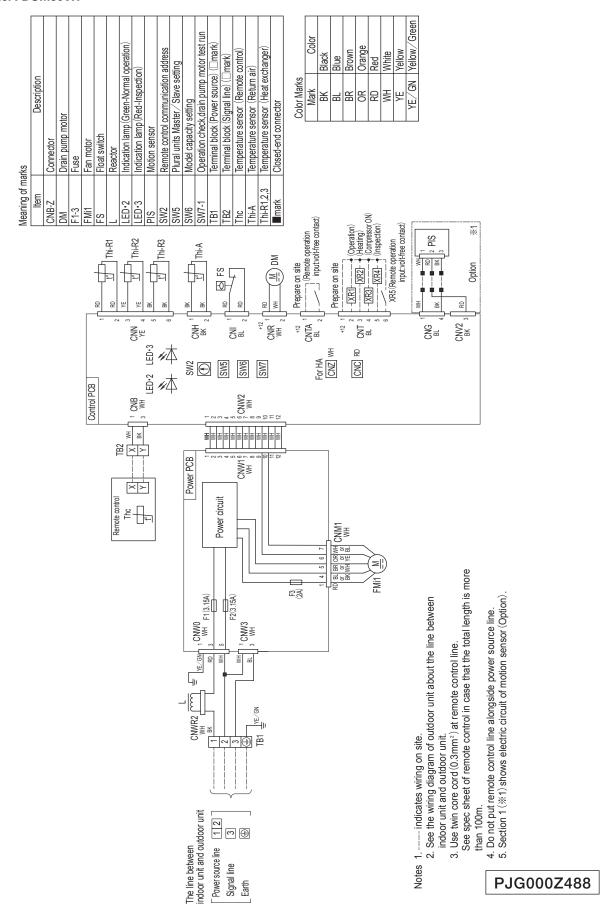
							_
	Color	Black	Blue	Red	White	Yellow	Yellow/Green
Color Marks	Mark	æ	В	&	MH	Æ	YE/GN



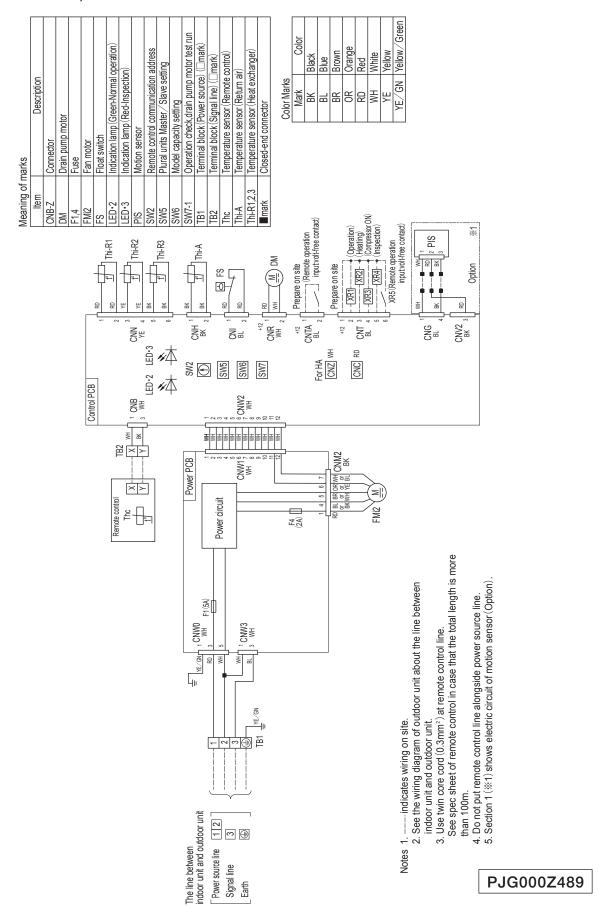
PJG000Z580

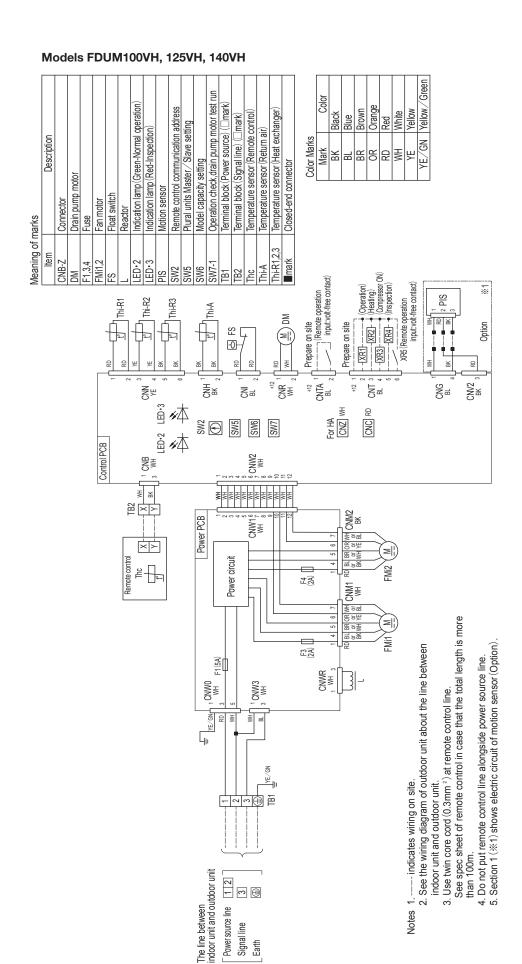
Power source line Signal line Earth

(d) Duct connected-Low / Middle static pressure type (FDUM) Model FDUM50VH



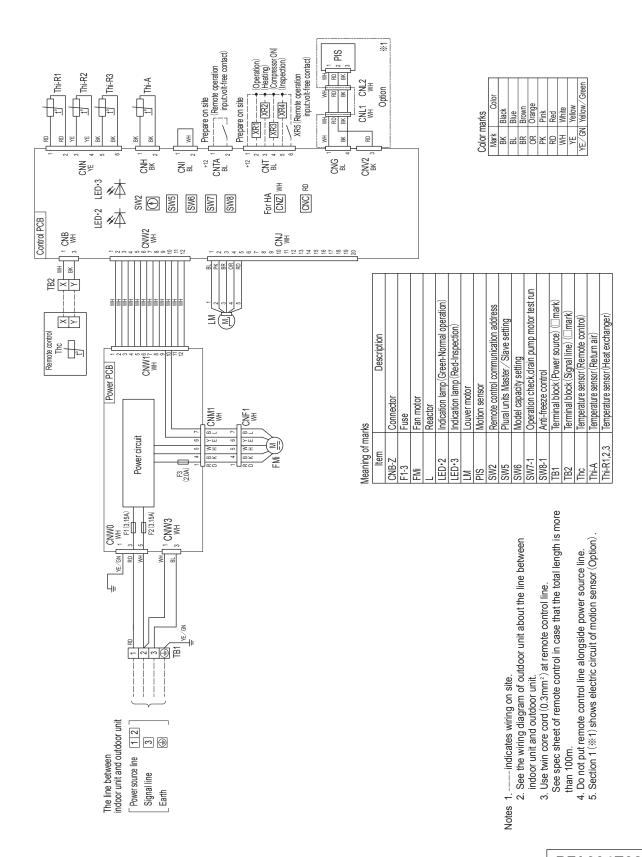
Models FDUM60VH, 71VH





PJG000Z490

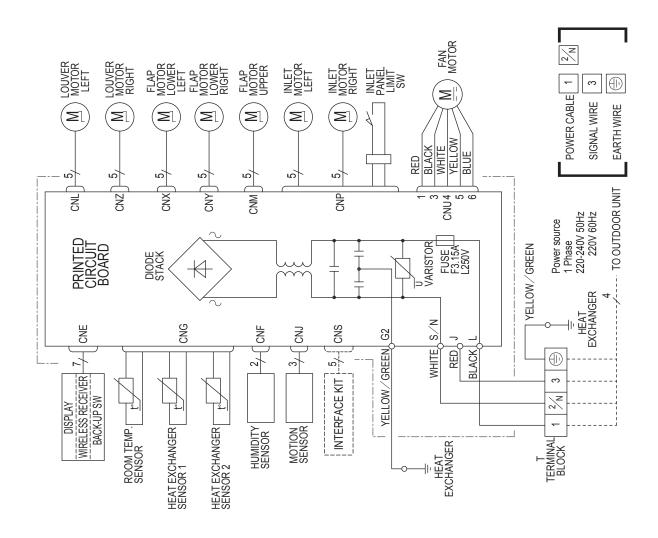
(e) Ceiling suspended type (FDE) Models FDE50VH, 60VH, 71VH, 100VH, 125VH, 140VH



PFA004Z087

(f) Wall mounted type (SRK) Models SRK50ZSX-W, 60ZSX-W

Description	Connector											
Item	CNE	CNF	CNG	CNJ	CNL	CNM	CNP	CNS	CNC	CNX	CN≺	CNZ



RWA000Z413

Models SRK71ZR-W, 100ZR-W

Description	Connector			Fan motor	Flap motor	Louver motor	Room temperature sensor	near exchanger temperature sensor	Humidity sensor Diode stack	Fuse	Terminal block	Varistor	Color Marks	Mark Color	BK Black		WH White	Y Yellow Y Green	200				
Item	CNE	ONS CNS CNS	CNC	SM:	SM1	LM _{1,2}	Th1	TI 0	Th3	ш	TB	\\								,	Z/N		
																	SOURCE	1 Phase 220-240V 50Hz 220V 60Hz		TO OUTDOOR UNIT	POWER CABLE 1	SIGNAL WIRE 3	EARTH WIRE
	CNK	PRINTED CNY $\frac{5}{15}$ LM2 BOARD	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		~	, _							U Va	DAIL 3		6 BL FMi		1 Phase 2	200	. ,		S	SER (

RWA000Z417A

(2) Outdoor units

Models FDC100VNA-W, 125VNA-W, 140VNA-W

Meaning of marks	Description	Crankcase heater	Compressor motor	Connector	Current sensor	Expansion valve for cooling	Expansion valve for heating	Fuse	Fan motor	Intelligent power module	Indication lamp (GREEN)	Indication lamp (RED)	Reactor	Low pressure sensor	Switch	Local setting switch	Terminal block	Temperature sensor (Outdoor air)	Temperature sesor (Discharge pipe)	2 Temperature sensor (Heat exchanger)	Temperature sensor (Suction pipe)	Solenoid valve for 4-way valve	Auxilliary relay	Auxilliary relay	Auxilliary relay (for 20S)	Auxilliary relay (for CH)	Auxilliary relay	High pressure switch
Meaning	Item	H	CM	CN	CT1	EEVC	EEVH	ш	FM1	IPM	LED1	LED2	L1,2	PSL	SW1	SW3,5,7	TB	THo-A	THO-D	THO-R1,R2	THO-S	208	52X1	52X3	52X11	52X14	52X15	63H1

Color	Black	Blue	Brown	Green	Orange	Red	White	Yellow	Yellow/Green
Mark	BK	BL	BR	RN	OR	RD	MM	>	Y/GN

TO INDOOR UNIT Power CABLE	Local setting switch SW3,5,7 (Set up at shipment OFF)	Earth wire size SW3-1 Defrost control change This switch should be turned On in the area (mm)
PWB7 SEXT SEXT SEXT SEXT SEXT SEXT SEXT SEXT		indoor-outdoor wire size x number
CC11 (SZSV44 SZSV44 SZSV54 SZSV44 SZS		Power cable length (m)
₽ ↓ ↓	nnecting wires	Power cable size (mm²)
Power source 1Phase 220-240V 50Hz/220V 60Hz TB	Power cable, indoor-outdoor connecting wires	MAX over current (A)
FEC B WOOD B WH - L L L L L L L L L L L L L L L L L L	Power ca	Model

	Earth wire size (mm)	SW3-1	Defrost control change	The defrost operation interval becomes shorter by turning ON hirs switch. This switch should be turned ON in the area where outside temperature becomes below
-				the freezing point.
	916			When this switch is turned ON, the outdoor unit fan will run for 30 seconds in every 10
	2	SW3-2	Snow guard fan control	minutes, when outdoor temperature falls to
\neg			•	running when the unit is used in a very
				snowy country, set this switch to ON.
\vdash				Method of trial operation
	Earth wire size			Trial operation can be performed by using SW3-3.4.
_	(mm)			Compressor will be in the operation when
-		SW3-3 4	SW3-3.4 Trial operation	SW3-3 IS ON.
				(3) Cooling trial operation will be performed
	φ1.6			when SW3-4 is OFF, and reaging that operation when SW3-4 is ON
				(4) Be sure to turn OFF SW3-3 after the trial operation is finished.
,			High height difference	Set this switch to ON when outdoor unit is
=	ter	SW5-2	operation control	installed at a position higher than indoor unit by 30m or more.
				Set this emitch to ON when managing unit
-		C-7WS	Defrost control change	oeration by remote control connected
0				external equipment.
		SW7-3	Lower noise silent mode	Upper limit of compressor speed and fan speed becomes lower in silent mode.

indoor-outdoor wire size x number

Power cable length (m)

Power cable size (mm²)

MAX over current (A)

**At the connection with the duct type indoor unit.

22

5.5

54

125

φ1.6mm x 3

20

5.5

26 27

125 140

III enect in each country.

PCA001Z854

Models FDC100VSA-W, 125VSA-W, 140VSA-W

Meaning of marks	marks
Item	Description
ᆼ	Crankcase heater
CM	Compressor motor
CN	Connector
EEVC	Expansion valve for cooling
EEVH	Expansion valve for heating
Ь	Fuse
FM1	Fan motor
IPM	Intelligent power module
_	Reactor
LED1	Indication lamp (GREEN)
LED2	Indication lamp (RED)
PSL	Low pressure sensor
SW1	Switch
SW3,5,7	Local setting switch
TB	Terminal block
THo-A	Temperature sensor (Outdoor air)
TH9-D	Temperature sensor (Discharge pipe)
THo-R1,R2	Temperature sensor (Heat exchanger)
THo-S	Temperature sensor (Suction pipe)
208	Solenoid valve for 4-way valve
52X1	Auxilliary relay
52X2	Auxilliary relay
52X6	Auxiliary relay (for FM1)
52X11	Auxilliary relay (for 20S)
52X14	Auxilliary relay (for CH)
52X15	Auxilliary relay
63H1	High pressure switch

Color	Black	Blue	Brown	Green	Orange	Red	White	Yellow	Yellow/Green
Mark	¥	BL	BR	R	OR	RD	MM	>-	Y/GN

Color marks

Local setting switch SW3,5,7 (Set up at shipment OFF)

			O W W W W W W W W W W W W W W W W W W W
		FM W W W W W W W W W	Wdl Right Ri
		MM	
		EEV	SW5 -
		1 1 1 1 1 1 1 1 1 1	SEXTH SEXTS SEXZS A A A A A A A A A
N	TIST F1000 TISS FINE TISS		Q
Power source 3Phase 380-415V 50Hz			
			TO INDOR UNIT POWER CABLETIZ: [SIGNAL WIRE]

arth wire size (mm) φ 1.6 SW3-2 Snow guard fan control (mm) SW3-3.4 Trial operation φ 1.6 SW5-2 High height difference SW5-2 Approximation control SW5-	Delirost control change
(mm) \$W3-2 Snow guard fan control (mm) \$W3-3,4 Trial operation φ 1.6 \$W5-2 High height difference operation control (mm)	Snow quard fan control
φ 1.6 SW3-2 Snow guard fan control and wire size (mm) φ 1.6 SW3-3,4 Trial operation φ 1.6 SW5-2 High height difference SW5-2 Operation control CM7-2 Operation Control	Snow quard fan control
SW3-3.4 Trial operation SW5-2 High height difference operation control	
φ 1.6 SW5-2, 4 Trial operation φ 1.6 SW6-2 High height difference SW6-2 Operation control	
frind operation (mm) φ 1.6 SW3-3.4 Trial operation φ 1.6 SW5-2 High height difference operation control channels	running when the unit is used in a very snowy country, set this switch to ON.
φ 1.6 SW5-2 High height difference SW5-2 Operation control	Method of trial operation
φ 1.6 SW5-2 High height difference SW5-2 Operation control	① Trial operation can be performed by using SW3-3.4.
φ 1.6 WR-2 High height difference SWF-2 operation control	<u> </u>
9 1.6 SW5-2 High height difference operation control	
φ 1.6 SW5-2 High height difference operation control	when SW3-4 is OFF, and heating trial
SW5-2 High height difference operation control	operation when SW3-4 is ON
SW5-2 High height difference operation control	
SW3-2 operation control	
CIM7 9 Defract control change	operation control
Defract control change	
OWY-2 Deliust colling change	Defrost control change operation by remote control connected
Overling	CACCITIC CHARLES
SW7-3 Lower noise silent mode speed be	

indoor-outdoor wire size x number

Power cable length (m)

Power cable size (mm²)

MAX over current (A)

**At the connection with the duct type indoor unit.

φ1.6mm x 3

46

3.5

15

125 100 140

indoor-outdoor wire size x number

Power cable length (m)

Power cable size (mm²)

MAX over current (A)

Power cable, indoor-outdoor connecting wires

	?		2.3		S MMG	
	2		:		0 4	
	140	18		38		
	2			0		
_	Ē	and the same of the same that the same	the same and the same from the same	An analysis and the nation of the same	a complete contains to a make one and the	ı
•	I LIPE SDE	 The specifications shown in the above table are for units without heaters. For units with heaters, refer 	above table are for uni	ts without neaters. For	units with neaters, refe	₫
	-	the the contract of the contra	the contraction of the contracti	and a company of the		

- to the installation instructions or the construction instructions of the indoor unit.

 Switchgear of circuit breaker capacity which is calculated from MAX. over current should be chosen along the regulations in each country.

 The cable specifications are based on the assumption that a metal or plastic conduit is used with no more than three cables contained in a conduit and a voltage drop is 2%. For an installation falling outside of these conditions, please follow the internal cabling regulations. Adapt it to the regulation in effect in each country.

PCA001Z855

1.4. NOISE LEVEL

Notes(1) The data are based on the following conditions.

- Ambient air temperature: Indoor unit 27°CWB. Outdoor unit 35°CDB.
- (2) The data in the chart are measured in an anechoic room

(a) Ceiling cassette-4way type (FDT)

(3) The noise levels measured in the field are usually higher than the data because of reflection.

(1) Indoor units

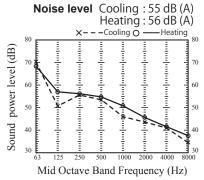
Measured based on JIS B 8616 Mike position



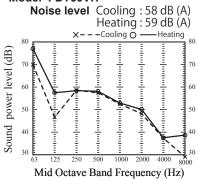
Unit

(i) Sound power level

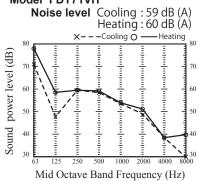
Model FDT50VH



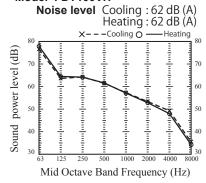
Model FDT60VH



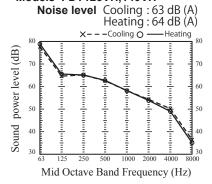
Model FDT71VH



Model FDT100VH



Models FDT125VH,140VH

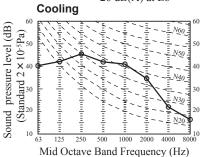


(ii) Sound pressure level

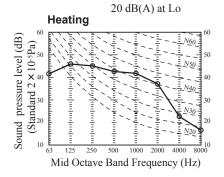
Model FDT50VH

Noise level 41 dB(A) at P-Hi
33 dB(A) at Hi
30 dB(A) at Me
26 dB(A) at Lo

Cooling



Noise level 42 dB(A) at P-Hi 33 dB(A) at Hi 28 dB(A) at Me



Model FDT60VH Noise level 44 dB(A) at P-Hi Noise level 44 dB(A) at P-Hi 34 dB(A) at Hi 34 dB(A) at Hi 30 dB(A) at Me 30 dB(A) at Me 27 dB(A) at Lo 20 dB(A) at Lo Cooling Heating pressure level (dB) Sound pressure level (dB) (Standard 2 \times 10-5Pa) (Standard 2×10^{-5} Pa) Sound 1000 Mid Octave Band Frequency (Hz) Mid Octave Band Frequency (Hz) Model FDT71VH Noise level 46 dB (A) at P-Hi Noise level 46 dB (A) at P-Hi 34 dB (A) at Hi 34 dB (A) at Hi 31 dB (A) at Me 31 dB (A) at Me 26 dB (A) at Lo 26 dB (A) at Lo Cooling Heating 60 Sound pressure level (dB) pressure level (dB) (Standard 2×10^{-5} Pa) (Standard 2 × 10-5Pa) Sound 1000 Mid Octave Band Frequency (Hz) Mid Octave Band Frequency (Hz) Model FDT100VH Noise level 47 dB (A) at P-Hi Noise level 47 dB (A) at P-Hi 39 dB (A) at Hi 39 dB (A) at Hi 36 dB (A) at Me 36 dB (A) at Me 30 dB (A) at Lo 29 dB (A) at Lo Cooling Heating 60 pressure level (dB) Sound pressure level (dB) (Standard 2×10^{-5} Pa) (Standard 2×10^{-5} Pa) Sound 500 1000 2000 4000 1000 2000 Mid Octave Band Frequency (Hz) Mid Octave Band Frequency (Hz) Models FDT125VH,140VH Noise level 49 dB (A) Noise level 48 dB (A) at P-Hi at P-Hi 41[42] dB (A) at Hi 41 dB (A) at Hi 39 dB (A) at Me 38 dB (A) at Me 31[32] dB (A) at Lo 31 dB (A) at Lo Cooling Heating Sound pressure level (dB) pressure level (dB) (Standard 2×10^{-5} Pa) (Standard 2×10^{-5} Pa) Sound 500 1000 2000 4000 1000 2000 4000 Mid Octave Band Frequency (Hz) Mid Octave Band Frequency (Hz)

Note (1) Values in [] are for the FDT140VH

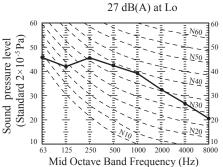
(b) Ceiling cassette-4 way compact type (FDTC)

Measured based on JIS B 8616 Mike position as right



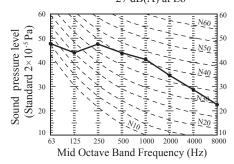
Model FDTC50VH

Noise level 44 dB(A) at P-Hi 40 dB(A) at Hi 35 dB(A) at Me



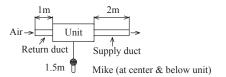
Model FDTC60VH

Noise level 44 dB(A) at P-Hi 40 dB(A) at Hi 35 dB(A) at Me 27 dB(A) at Lo



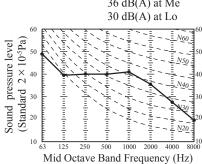
(c) Duct connected-High static pressure type (FDU)

Measured based on JIS B 8616 Mike position as right



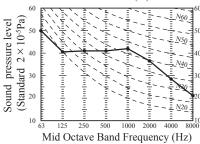
Model FDU100VH

Noise level 44 dB(A) at P-Hi 38 dB(A) at Hi 36 dB(A) at Me 30 dB(A) at Lo



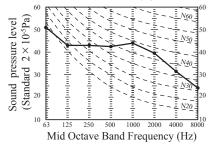
Model FDU125VH

Noise level 45 dB(A) at P-Hi 40 dB(A) at Hi 34 dB(A) at Me 29 dB(A) at Lo



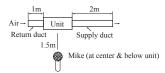
Model FDU140VH

Noise level 47 dB(A) at P-Hi 40 dB(A) at Hi 35 dB(A) at Me 30 dB(A) at Lo



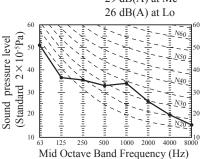
(d) Duct connected-Low/Middle static pressure type (FDUM)

Measured based on JIS B 8616 Mike position as right



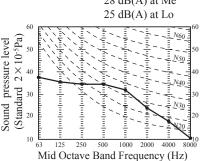
Model FDUM50VH

Noise level 37 dB(A) at P-Hi 32 dB(A) at Hi 29 dB(A) at Me 26 dB(A) at Lo



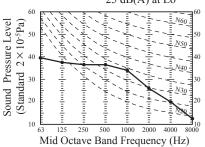
Model FDUM60VH

Noise level 36 dB(A) at P-Hi 31 dB(A) at Hi 28 dB(A) at Me 25 dB(A) at Lo



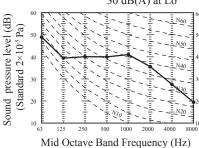
Model FDUM71VH

Noise level 38 dB(A) at P-Hi 33 dB(A) at Hi 29 dB(A) at Me 25 dB(A) at Lo



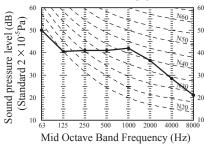
Model FDUM100VH

Noise level 44 dB(A) at P-Hi 38 dB(A) at Hi 36 dB(A) at Me 30 dB(A) at Lo



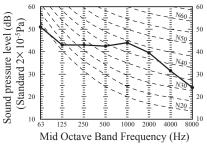
Model FDUM125VH

Noise level 45 dB(A) at P-Hi 40 dB(A) at Hi 34 dB(A) at Me 29 dB(A) at Lo



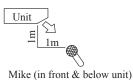
Model FDUM140VH

Noise level 47 dB(A) at P-Hi 40 dB(A) at Hi 35 dB(A) at Me 30 dB(A) at Lo



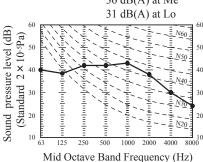
(e) Ceiling suspended type (FDE)

Measured based on JIS B 8616 Mike position as right



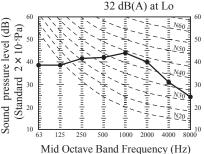
Model FDE50VH

Noise level 46 dB(A) at P-Hi 38 dB(A) at Hi 36 dB(A) at Me 31 dB(A) at Lo



Models FDE60VH, 71VH

Noise level 47 dB(A) at P-Hi 41 dB(A) at Hi 37 dB(A) at Me 32 dB(A) at Lo



Model FDE100VH

Noise level 48 dB(A) at P-Hi 43 dB(A) at Hi 38 dB(A) at Me

34 dB(A) at Lo

(Standard Dressure level (dB)

(Standard 2 × 40

(

Mid Octave Band Frequency (Hz)

Mid Octave Band Frequency (Hz)

Model FDE140VH Noise level 49 dB(A) at P-Hi 45 dB(A) at Hi 40 dB(A) at Me 36 dB(A) at Lo (80) (80) (80) (81) (82) (84) (85) (87) (87) (88) (89) (80) (8

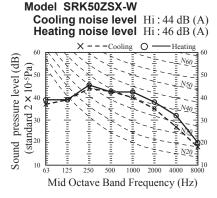
Mid Octave Band Frequency (Hz)

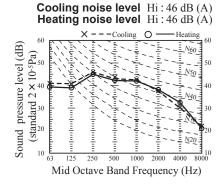
(f) Wall mounted type (SRK)

Measured based on JIS C 9612 Mike position as right

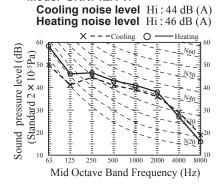


Model SRK71ZR-W





Model SRK60ZSX-W



Model SRK100ZR-W

Cooling noise level Hi: 48 dB (A)

Heating noise level Hi: 48 dB (A)

Heating noise level Hi: 48 dB (A)

X - - Cooling O Heating

(a)

Heating of H

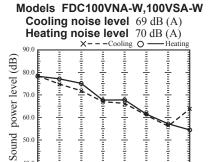
(2) Outdoor units

Measured based on JIS B 8616

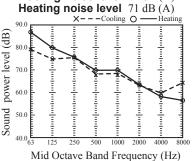
Mike position: at highest noise level in position as mentioned below

Distance from front side 1m Height 1m

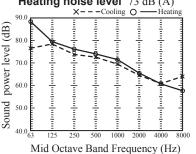
(a) Sound power level



Models FDC125VNA-W,125VSA-W Cooling noise level 71 dB (A) Heating noise level 71 dB (A)



Models FDC140VNA-W,140VSA-W Cooling noise level 72 dB (A) Heating noise level 73 dB (A)

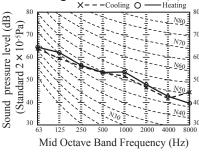


(b) Sound pressure level

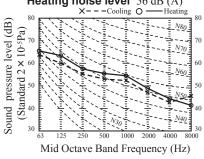
(i) Rating mode



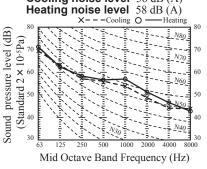
Mid Octave Band Frequency (Hz)



Models FDC125VNA-W,125VSA-W Cooling noise level 54 dB (A) Heating noise level 56 dB (A)



Models FDC140VNA-W,140VSA-W Cooling noise level 56 dB (A)



1.5 CHARACTERISTICS OF FAN

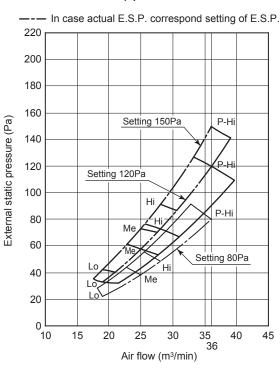
(1) Duct connected-High static static pressure type (FDU)

- Characteristic FAN (1) shows air flow vs. External Static Pressure (E.S.P.) range where settings of E.S.P. are maximum E.S.P. (SW8-4 OFF: 150Pa, SW8-4 ON: 200Pa), rated E.S.P., and minimum E.S.P. (SW8-4 OFF: 80Pa, SW8-4 ON: 10Pa)
- · Characteristic FAN (2) shows air flow vs E.S.P. curve when set fan tap is set P-Hi with each setting of E.S.P. by remote control.
- External Static Pressure (E.S.P.) can be set by wired remote control.
- · You can set required E.S.P. by wired remote control which calculate it with the set air flow rate and pressure loss of the duct connected.

Model FDU100VH

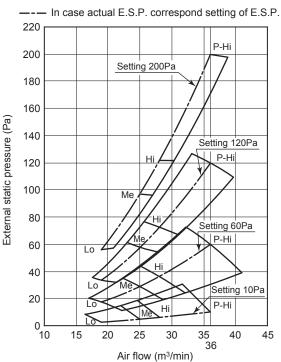
■SW8-4 : OFF (Range of use limitation : Setting 80Pa-150Pa)

Characteristic FAN (1)

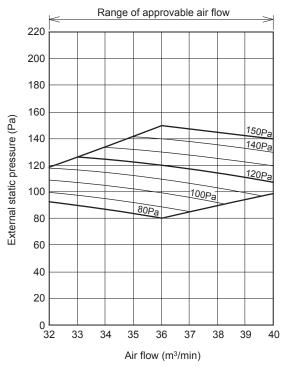


■SW8-4 : ON (Range of use limitation : Setting 10Pa-200Pa)

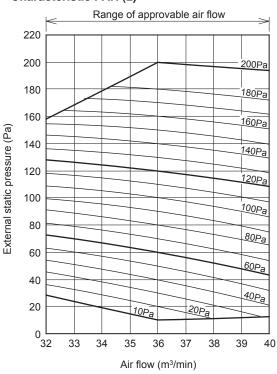
Characteristic FAN (1)



Characteristic FAN (2)



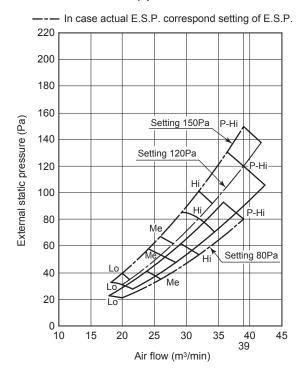
Characteristic FAN (2)



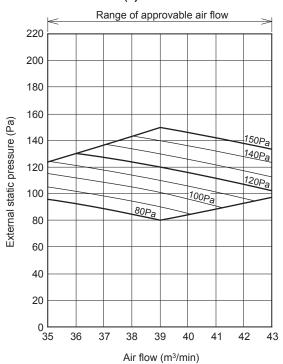
Model FDU125VH

■SW8-4 : OFF (Range of use limitation : Setting 80Pa-150Pa)

Characteristic FAN (1)

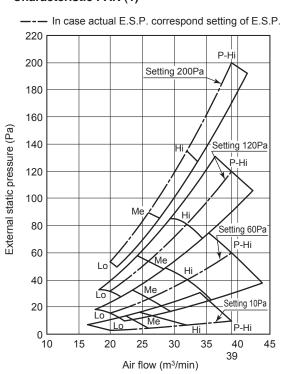


Characteristic FAN (2)

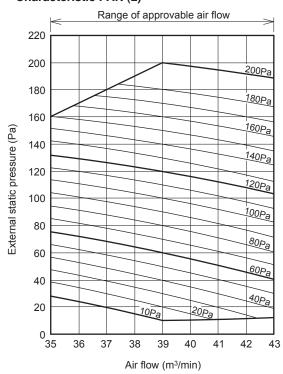


■SW8-4 : ON (Range of use limitation : Setting 10Pa-200Pa)

Characteristic FAN (1)



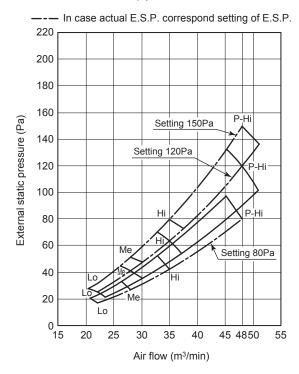
Characteristic FAN (2)



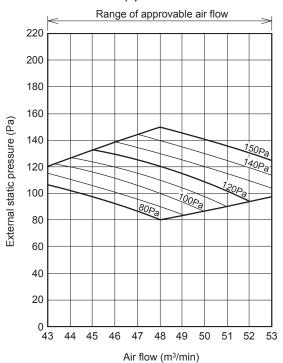
Model FDU140VH

■SW8-4 : OFF (Range of use limitation : Setting 80Pa-150Pa)

Characteristic FAN (1)

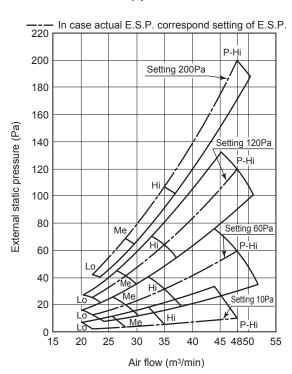


Characteristic FAN (2)

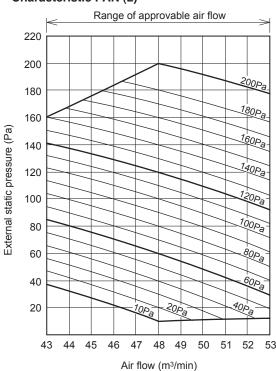


■SW8-4 : ON (Range of use limitation : Setting 10Pa-200Pa)

Characteristic FAN (1)



Characteristic FAN (2)



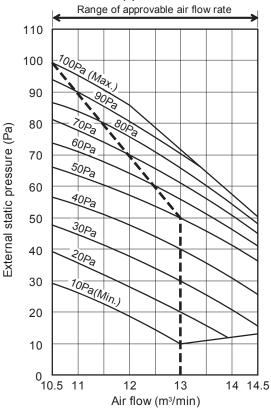
(2) Duct connected-Low / Middle static pressure type (FDUM)

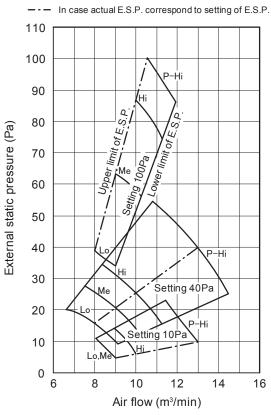
- Characteristic FAN (1) shows air flow vs. External Static Pressure (E.S.P.) range where settings of E.S.P. are maximum E.S.P. (100Pa), rated E.S.P., and minimum E.S.P. (10Pa)
- · Characteristic FAN (2) shows air flow vs E.S.P. curve when set fan tap is set P-Hi with each setting of E.S.P by remote control.
- External Static Pressure (E.S.P.) can be set by wired remote control.
- · You can set required E.S.P. by wired remote control which calculate it with the set air flow rate and pressure loss of the duct connected.

Model FDUM50VH

Characteristic FAN(1)

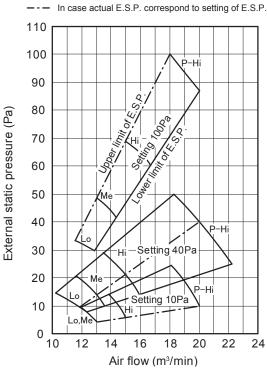
Characteristic FAN(2)

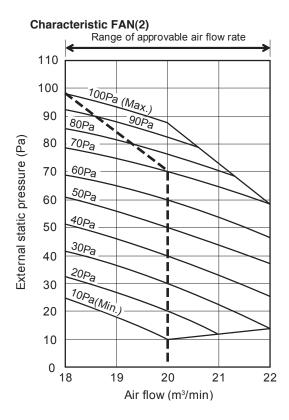




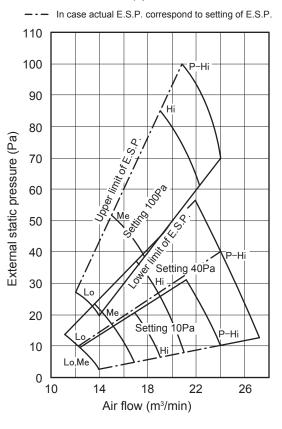
Model FDUM60VH

Characteristic FAN(1)

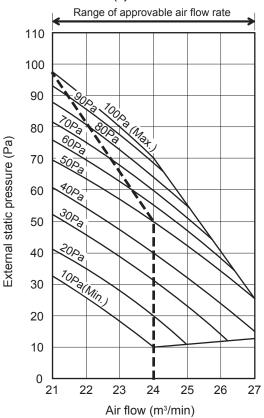




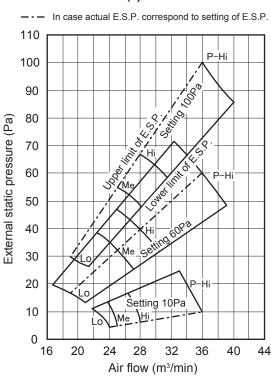
Model FDUM71VH Characteristic FAN(1)



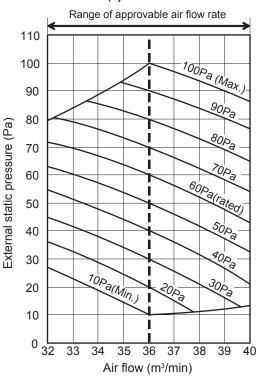
Characteristic FAN(2)



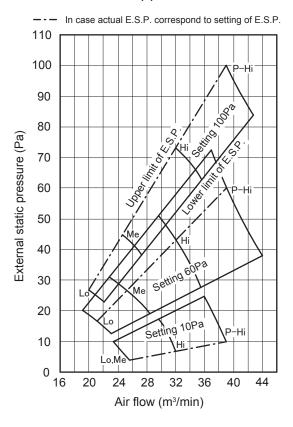
Model FDUM100VH Characteristic FAN(1)



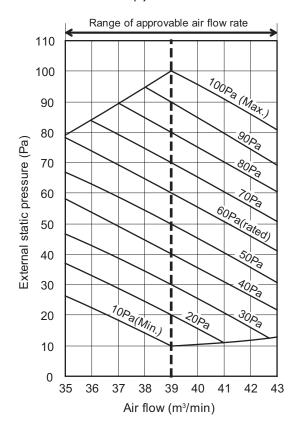
Characteristic FAN(2)



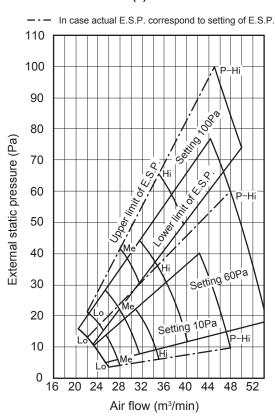
Model FDUM125VH Characteristic FAN(1)



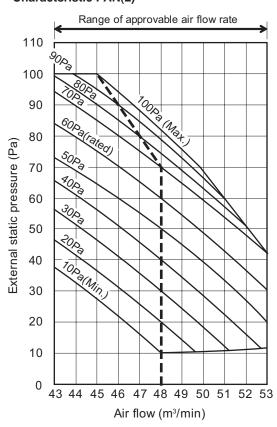
Characteristic FAN(2)



Model FDUM140VH Characteristic FAN(1)



Characteristic FAN(2)



1.6 TEMPERATURE AND VELOCITY DISTRIBUTION

Indoor temperature

Cooling 27°CDB / 19°CWB

Heating 20°CDB

Note: These figures represent the typical main range of temperature and velocity distribution at the center of air outlet within the published conditions.

In the actual installation, they may differ from the typical figures under the influence of air temperature conditions, ceiling height, operation conditions and obstacles.

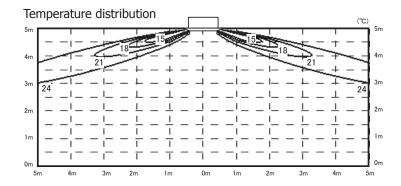
(1) Ceiling cassette-4 way type (FDT)

Model FDT50VH

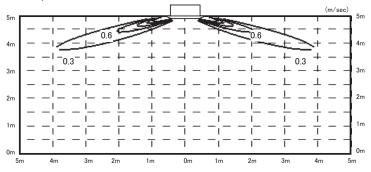
Cooling Air flow: P-Hi

Louver position





Velocity distribution

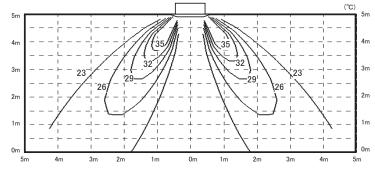


Heating Air flow: P-Hi

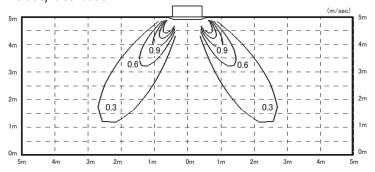
Louver position



Temperature distribution

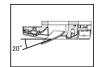


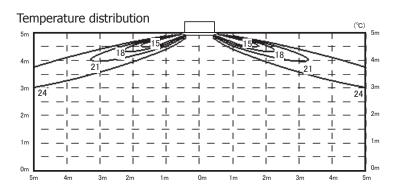
Velocity distribution



Models FDT60VH, 71VH Cooling Air flow: P-Hi

Louver position

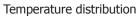


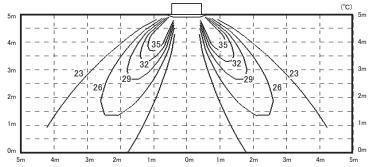


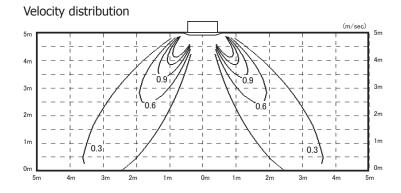
Heating Air flow: P-Hi

Louver position







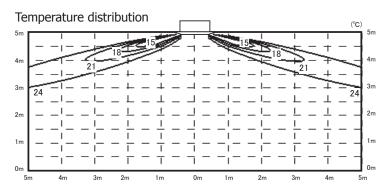


Models FDT100VH, 125VH, 140VH

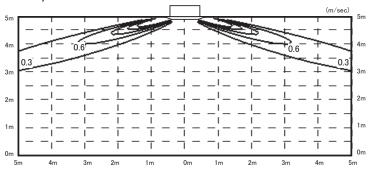
Cooling Air flow: P-Hi

Louver position





Velocity distribution

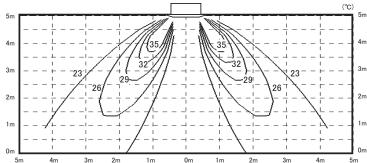


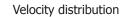
Heating Air flow: P-Hi

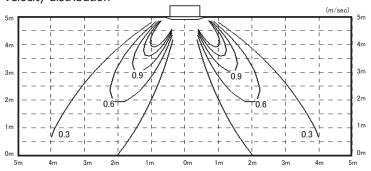
Louver position



Temperature distribution





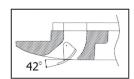


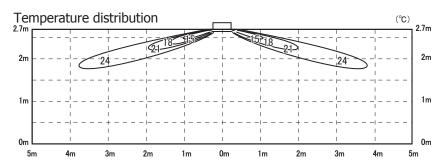
(2) Ceiling casstte-4 way compact type (FDTC)

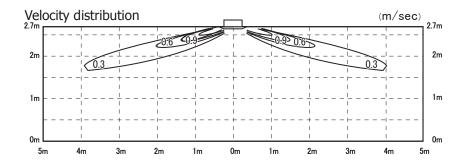
Model FDTC50VH

Cooling Air flow: P-Hi

Louver position

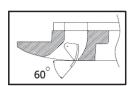


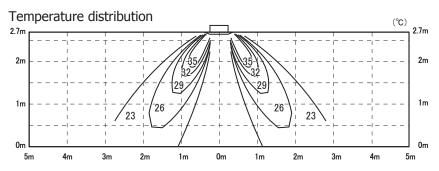


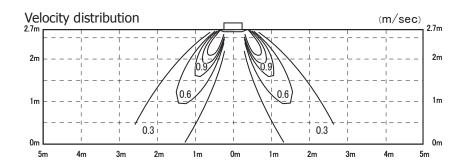


Heating Air flow: P-Hi

Louver position



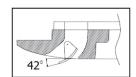


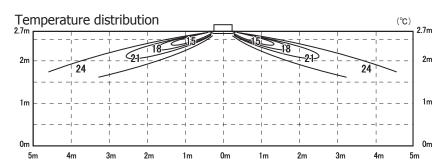


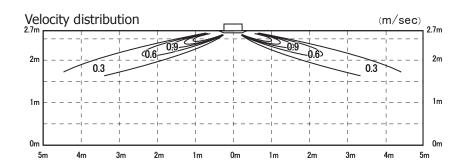
Model FDTC60VH

Cooling Air flow: P-Hi

Louver position

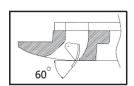


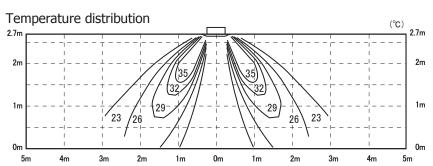


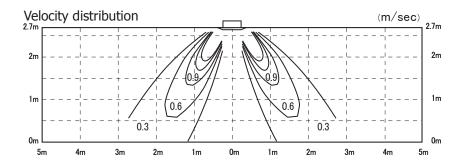


Heating Air flow: P-Hi

Louver position







(3) Ceiling suspended type (FDE)

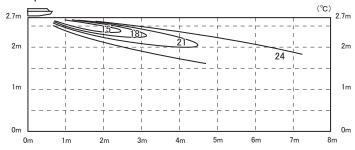
Model FDE50VH

Cooling Air flow: P-Hi

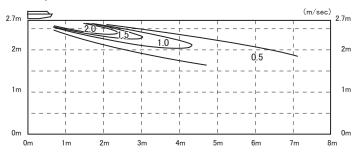
Louver position



Temperature distribution

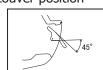


Velocity distribution

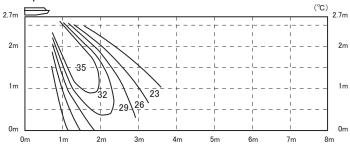


Heating Air flow: P-Hi

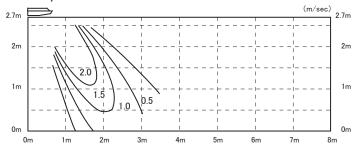
Louver position



Temperature distribution



Velocity distribution



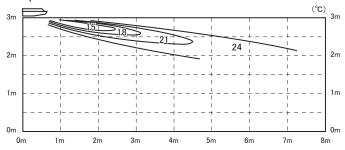
Models FDE60, 71VH

Cooling Air flow: P-Hi

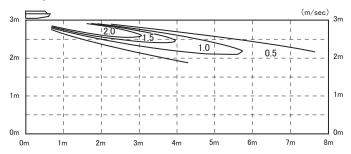
Louver position



Temperature distribution

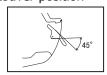


Velocity distribution

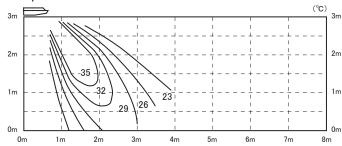


Heating Air flow: P-Hi

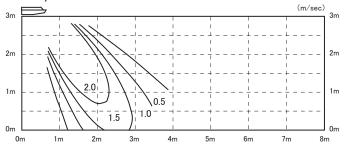
Louver position



Temperature distribution



Velocity distribution



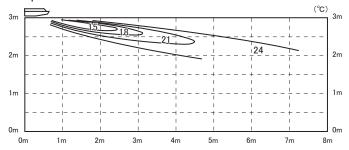
Models FDE100, 125VH

Cooling Air flow: P-Hi

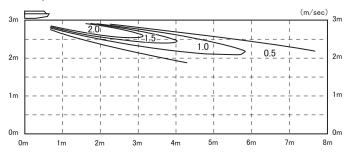
Louver position



Temperature distribution

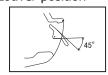


Velocity distribution

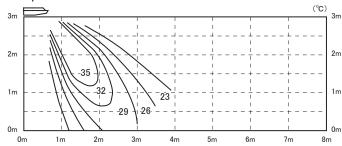


Heating Air flow: P-Hi

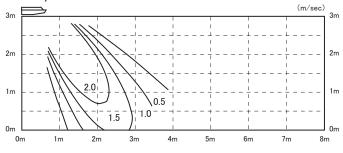
Louver position



Temperature distribution



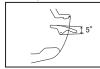
Velocity distribution



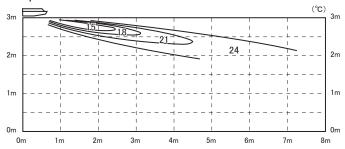
Model FDE140VH

Cooling Air flow: P-Hi

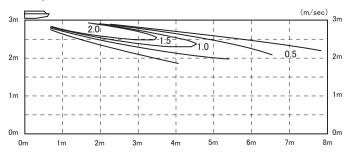
Louver position



Temperature distribution

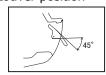


Velocity distribution

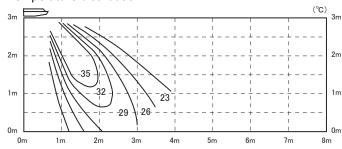


Heating Air flow: P-Hi

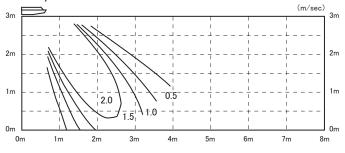
Louver position



Temperature distribution



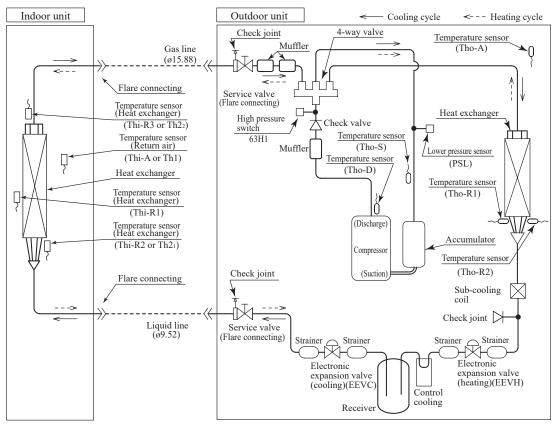
Velocity distribution



1.7 PIPING SYSTEM

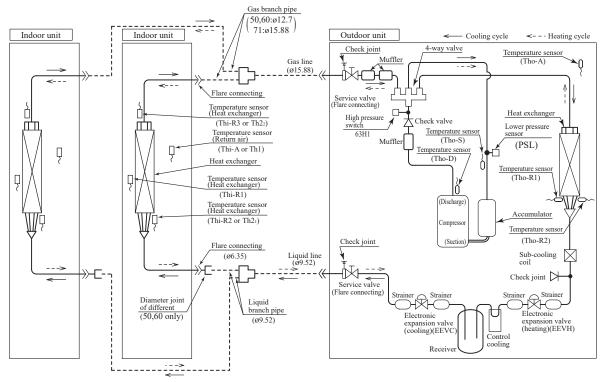
(1) Single type

Models 100, 125, 140

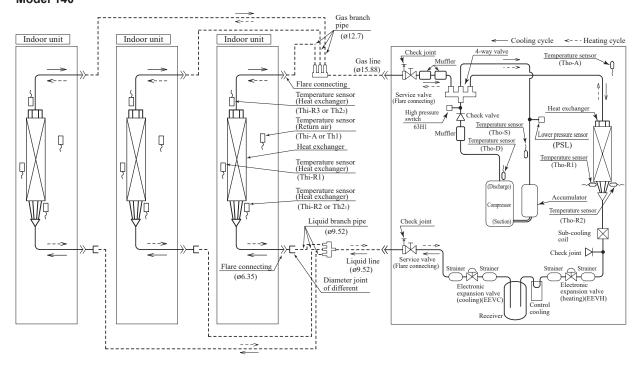


(2) Twin type

Models 100, 125, 140



(3) Triple type Model 140



Preset point of the protective devices

Parts name	Mark	Equipped unit	Protective control activation 100, 125, 140 model
Temperature sensor (for protection over- loading in heating)	Thi-R (Tho-A)	Indoor unit (Outdoor unit)	Active 63°C (Active 17°C) Inactive 56°C (Inactive 16°C)
Temperature sensor (for frost prevention)	Thi-R (Th2)	Indoor unit	Active 1.0°C (Active 2.5°C) Inactive 10°C (Inactive 8°C)
Temperature sensor (for protection high pressure in cooling.)	Tho-R	Outdoor unit	Active 63°C Inactive 51°C
Temperature sensor (for detecting dis- charge pipe temp.)	Tho-D	Outdoor unit	Active 115°C Inactive 85°C
High pressure switch (for protection)	63H1	Outdoor unit	Active 4.15MPa Inactive 3.15MPa
Low pressure sensor (for protection)	PSL	Outdoor unit	Active 0.079MPa Inactive 0.227MPa

Note (1) Values in () are for the SRK models.

1.8 RANGE OF USAGE & LIMITATIONS

On avating tampaget, we see		See next page.					
Operating temperature ran	ge	When used below -5°C, install a snow hood (locally procured).					
Recommendable area to in	ıstall	Considering to get sufficient heating capacity, the area where the averaged lowest ambient air temperature in day time during winter is above 0°C, and it has no accumulation of snow.					
Installation site		The limitations of installation space are shown in the page for exterior dimensions. Install the indoor unit at least 2.5m higher than the floor surface.					
Temperature and humidity of indoor unit in the ceiling (No	•	Model FDE Dew point temperature : 23°C or less, relative hummdity : 80% or less Other models Dew point temperature : 28°C or less, relative hummdity : 80% or less					
Limitations on unit and pipi	ng installation	See pages 120 and 121.					
Compressor	Cycle Time	7 minutes or more (from OFF to OFF) or (from ON to ON)					
ON-OFF cycling	Stop Time	3 minutes or more					
	Voltage range	Rating ±10%					
Power source	Voltage drop at start-up	Min.85% of rating					
	Phase-to-phase imbalance	3% or less					

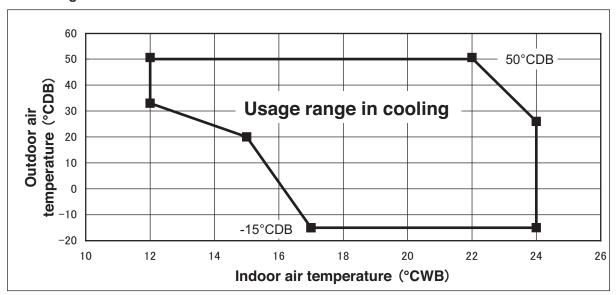
Note 1. Do not install the unit in places which:

- 1) Flammable gas may leak.
- 2) Carbon fiber, metal particles, powder, etc. are floating.
- 3) Cosmetic or special sprays are used frequently.
- 4) Exposed to oil splashes or steam (e.g. kitchen and machine plant).
- 5) Exposed to sea breeze (e.g. coastal area) or calcium chloride (e.g. snow melting agent).
- 6) Exposed to ammonia substance (e.g. organic fertilizer).
- 7) Matters affecting devices, such as sulfuric gas, chlorine gas, acid, alkali, etc. may generate or accumulate.
- 8) Chimney smoke is hanging.
- 9) Sucking the exhaust gas from heat exchanger.
- 10) Adjacent to equipment generating electromagnetic waves or high frequency waves.
- 11) There is light beams that affect the receiving device of indoor unit in case of the wireless specification.
- 12) Snow falls heavily.
- 13) At an elevation of 1000 meters or higher.
- 14) On mobile machine (e.g. vehicle, ship, etc.)
- 15) Splashed with water to indoor unit (e.g. laundry room).
- 16) Indoor units of twin and triple specifications separately in a room with partition.
- Note 2. If ambient temperature and humidity exceed the above conditions, add polyurethane foam insulation (10mm or thicker) on the outer plate of indoor unit
- Note 3. Both gas and liquid pipes need to be coverd with 20mm or thicker heat insulation materials at the place where humidity exceeds 70%.
- Note 4. When snow accumulate, install a snow hood on site.
- Note 5. The indoor unit shall be installed in a room with minimum installation area or more according to the refrigerant charge amount. (for details, refer to installation sheet)

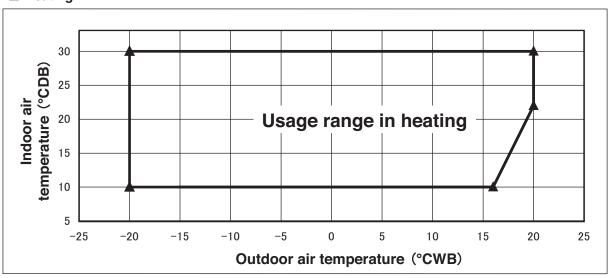
PCA001Z858

Operating temperature range

■ Cooling



Heating



Decline in cooling and heating capacity or operation stop may occur when the outdoor unit is installed in places where natural wind can increase or decrease its design air flow rate.

PCA001Z858

"CAUTION" Cooling operation under low outdoor air temperature conditions

PAC models can be operated in cooling mode at low outdoor air temperature condition within above temperature range. However in case of severely low temperature conditions if the following precaution is not observed, it may not be operated in spite of operable temperature range mentioned above and cooling capacity may not be established under certain conditions.

[Precaution]

In case of severely low temperature condition

- 1) Install the outdoor unit at the place where strong wind cannot blow directly into the outdoor unit.
- 2) If there is no installation place where can prevent strong wind from directly blowing into the outdoor unit, mount the flex flow adapter (prepared as option part) or like such devices onto the outdoor unit in order to divert the strong wind.

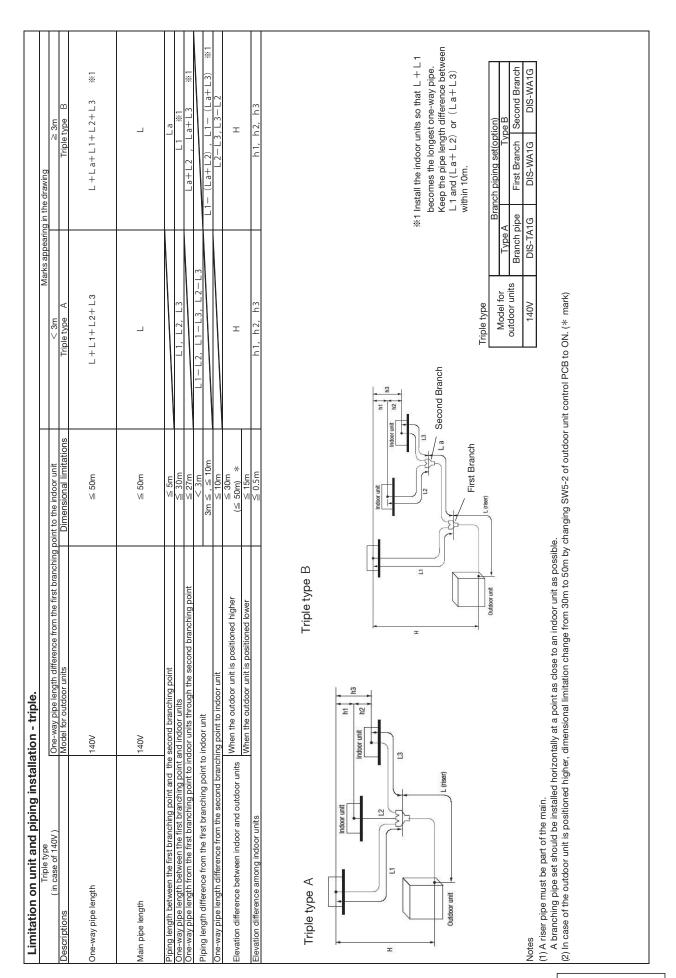
[Reason]

Under the low outdoor air temperature conditions of -5°C or lower, the outdoor fan is controlled at lower or lowest speed by outdoor fan control, but if strong wind directly blow into the outdoor unit, the outdoor heat exchanger temperature will drop more.

This makes high and low pressures to drop as well. This low pressure drop makes the indoor heat exchanger temperature to drop and will activate anti-frost control at indoor heat exchanger at frequent intervals, that cooling operation may not be established for any given time.

Limitation on unit and piping installation - single,twin.	tion - single,twin.			
Descriptions	Model for outdoor units	Dimensional limitations		Marks appearing in the drawing
			Single type	Twin type
One-way pipe length	100V · 125V · 140V	≥ 50m	L	L+L1+L2
Main pipe length	100V · 125V · 140V	≥ 50m		Γ
One-way pipe length after the first branching point $ 100V\cdot 125V\cdot 140V $	100V · 125V · 140V	≥ 30m		L1, L2
Difference of pipe length after the first branching point	oint	≤ 10m		L1-L2 L2-L1
Total pipe length after the second branching point		≤ 15m		
Elevation difference between indoor and outdoor units	When the outdoor unit is positioned higher When the outdoor unit is positioned lower 100V · 125V · 140V	≤ 30m (≤50m) * ≤ 15m	I	Ι
Elevation difference among indoor units		≤ 0.5m		h
Single type Indoorunit Outdoor unit Notes (1) A riser pipe must be part of the main. A branching pipe set should be installed horizon (2) In case of the outdoor unit is positioned higher, (2)	Single type Indoor unit Outdoor unit Notes (1) A riser pipe must be part of the main. A branching pipe set should be installed horizontally at a point as close to an indoor unit as possible. (2) In case of the outdoor unit is positioned higher, dimensional limitation change from 30m to 50m by changing SW5-2 of outdoor unit control PCB to ON. (* mark)	Twin Twin Twin Twin (1900)	Twin type Model for Branch piping outdoor units set(option) 100V · 125V · 140V DIS-WA1G ounit control PCB to ON. (* mark)	

PCA001Z858



PCA001Z858

1.9 SELECTION CHART

Correct the cooling and heating capacity in accordance with the operating conditions. The net cooling and heating capacity can be obtained in the following way.

Net capacity = Capacity shown in the capacity tables (1.9.1) × Correction factors shown in the table (1.9.2) (1.9.3) (1.9.4).

Caution: In case that the cooling operation during low outdoor air temperature below -5°C is expected, install the outdoor unit where it is not influenced by natural wind. Otherwise protection control by low pressure will be activated much more frequently and it will cause insufficient capacity or breakdown of the compressor in worst case.

Outdoor unit FDC100VNA-W

1.9.1 Capacity tables

(1) Ceiling cassette-4 way type (FDT)

9.62 8.22

9.42 8.15

9.21 8.08 9.26

7.37

9.72 7.71

9.49 7.64

7.87

7.49

7.14

5.78

(a) Single type Model FDT100VNAWVH

Cooling Mode Indoor air temperature Outdoo 18 °CDB 21 °CDB 23 °CDB 33 °CDB 26 °CDB 27 °CDB 28 °CDB 31 °CDB 14 °CWB 16 °CWB 18 °CWB 19 °CWB 20 °CWB °CDB SHC TC SHC TC SHC TC SHC TC SHC TC SHC TC SHC SHC 11.02 8.56 11.60 8.50 11.92 8.36 8.77 8.44 -10 10.67 8.46 11.23 8.40 11.53 8.26 12.13 8.68 10.31 8.36 10.85 8.30 11.35 8.21 12.35 8.73 13.36 8.47 0 8.55 7.34 10.33 8.36 11.22 8.40 11.56 8.27 8.70 12.25 8.39 10.41 8.39 11.44 8.24 11 9.41 7.61 10.44 8.39 10.96 8.33 11.36 8.22 12.15 8.68 9.80 7.74 13 10.47 8.40 10.81 8.29 11.27 8.19 12.20 8.69 8.43 15 10.19 7.87 10.50 8.41 10.66 8.25 11.19 8.17 12.26 8.70 13.32 8.47 11.40 8.23 19 10.26 7.89 10.67 8.46 11.27 8.41 11.61 8.28 21 23 10.08 7.83 10.56 8.43 11.15 8.38 11.49 8.25 12.15 8.68 12.82 8.37 7.77 10.45 8.40 11.04 8.35 11.37 8.22 12.03 8.66 12.70 9.90 8.35 25 27 9.81 7.74 10.40 8.38 10.98 8.33 11.31 8.20

10.35 8.37

10.11 8.30

9.40 8.10

9.18 8.04

8.50 7.86

8.16 7.77

7.98

9.87 8.23

9.64 8.17

8.95

8.72 7.92 10.92 8.32

10.69 8.25

10.00 8.07

8.88 7.78

9.44

9.16 7.86

8.46 7.68

8.00

11.39 8.22

10.93 8.11

10.46 7.99

10.15 7.91

9.51 7.76

9.19 7.69

11.16 8.17

10.70 8.05

7.84

Indoor unit FDT100VH

(kW) Heating Mode:HC

(kW)

	door	Indoor air temperature								
air te	emp.			°CDB						
°CDB	°CWB	16	18	20	22	24				
-19.8	-20	6.47	6.40	6.32	6.24	6.16				
-17.7	-18	6.52	6.46	6.40	6.30	6.20				
-15.7	-16	7.37	7.29	7.20	7.11	7.02				
-13.5	-14	7.66	7.57	7.47	7.38	7.30				
-11.5	-12	8.23	8.12	8.01	7.93	7.85				
-9.5	-10	8.80	8.67	8.54	8.47	8.40				
-7.5	-8	9.38	9.23	9.08	9.02	8.95				
-5.5	-6	9.56	9.41	9.26	9.20	9.14				
-3.0	-4	9.74	9.59	9.45	9.38	9.32				
-1.0	-2	9.92	9.77	9.63	9.57	9.50				
1.0	0	10.10	9.96	9.81	9.75	9.68				
2.0	1	10.19	10.05	9.91	9.84	9.77				
3.0	2	10.45	10.31	10.17	10.10	10.03				
5.0	4	10.96	10.82	10.68	10.62	10.55				
7.0	6	11.48	11.34	11.20	11.13	11.07				
9.0	8	11.79	11.65	11.51	11.45	11.39				
11.5	10	12.09	11.96	11.82	11.77	11.71				
13.5	12	12.72	12.57	12.41	12.35	12.29				
15.5	14	13.35	13.18	13.01	12.94	12.88				
16.5	16	13.67	13.49	13.31	13.24	13.17				

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Model FDT100VSAWVH

7.82 7.17 8.42

7.68 7.12 8.24 7.73 8.80 7.42

7.59 7.09 8.11 7.69 8.63

7.40 7.02 7.85 7.60 8.29 7.26

7.31 6.98 7.72 7.55 8.12 7.21

7.05 7.98 7.64 8.46 7.32

6.93

29

31

35

39

41

43

Cooling Mode

Indoor unit FDT100VH

Outdoor unit FDC100VSA-W

11.86 8.62

11.16 8.47

10.57 8.34

9.86 8.20

8.97 8.02

11.63 8.57

10.93 8.42

9.50 8.13

(kW)

0.11							Inde	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
un tomp.	12 °	CWB	14 °0	CWB	16 °C	CWB	18 °	CWB	19 °C	CWB	20 °C	CWB	22 °(CWB	24 °C	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.02	8.56	11.60	8.50	11.92	8.36	12.55	8.77	13.18	8.44
-10							10.67	8.46	11.23	8.40	11.53	8.26	12.13	8.68	12.73	8.36
-5							10.31	8.36	10.85	8.30	11.35	8.21	12.35	8.73	13.36	8.47
0					8.55	7.34	10.33	8.36	11.22	8.40	11.56	8.27	12.25	8.70	12.93	8.39
5					9.01	7.49	10.41	8.39	11.11	8.37	11.44	8.24	12.09	8.67	12.74	8.36
11					9.41	7.61	10.44	8.39	10.96	8.33	11.36	8.22	12.15	8.68	12.94	8.39
13					9.80	7.74	10.47	8.40	10.81	8.29	11.27	8.19	12.20	8.69	13.13	8.43
15					10.19	7.87	10.50	8.41	10.66	8.25	11.19	8.17	12.26	8.70	13.32	8.47
17					9.83	7.75	10.59	8.44	10.97	8.33	11.40	8.23	12.26	8.71	13.13	8.43
19					10.26	7.89	10.67	8.46	11.27	8.41	11.61	8.28	12.27	8.71	12.94	8.39
21					10.08	7.83	10.56	8.43	11.15	8.38	11.49	8.25	12.15	8.68	12.82	8.37
23					9.90	7.77	10.45	8.40	11.04	8.35	11.37	8.22	12.03	8.66	12.70	8.35
25			9.79	8.29	9.81	7.74	10.40	8.38	10.98	8.33	11.31	8.20	11.97	8.64	12.63	8.34
27			9.62	8.22	9.72	7.71	10.35	8.37	10.92	8.32	11.39	8.22	11.86	8.62		
29			9.42	8.15	9.49	7.64	10.11	8.30	10.69	8.25	11.16	8.17	11.63	8.57		
31			9.21	8.08	9.26	7.57	9.87	8.23	10.46	8.19	10.93	8.11	11.39	8.52		
33	7.82	7.17	8.42	7.79	9.03	7.49	9.64	8.17	10.23	8.13	10.70	8.05	11.16	8.47		
35	7.68	7.12	8.24	7.73	8.80	7.42	9.40	8.10	10.00	8.07	10.46	7.99	10.93	8.42		
37	7.59	7.09	8.11	7.69	8.63	7.37	9.18	8.04	9.72	8.00	10.15	7.91	10.57	8.34		
39	7.50	7.05	7.98	7.64	8.46	7.32	8.95	7.98	9.44	7.93	9.83	7.84	10.22	8.27		
41	7.40	7.02	7.85	7.60	8.29	7.26	8.72	7.92	9.16	7.86	9.51	7.76	9.86	8.20		
43	7.31	6.98	7.72	7.55	8.12	7.21	8.50	7.86	8.88	7.78	9.19	7.69	9.50	8.13		
46	7.17	6.93	7.52	7.37	7.87	7.14	8.16	7.77	8.46	7.68	8.71	7.58	8.97	8.02		
50	5.60	5.49	5.73	5.62	5.90	5.78	6.05	5.93	6.17	6.05	6.28	6.15	6.38	6.26		

Out	door	Indoor air temperature								
air te	emp.			°CDB						
°CDB	°CWB	16	18	20	22	24				
-19.8	-20	6.47	6.40	6.32	6.24	6.16				
-17.7	-18	6.52	6.46	6.40	6.30	6.20				
-15.7	-16	7.37	7.29	7.20	7.11	7.02				
-13.5	-14	7.66	7.57	7.47	7.38	7.30				
-11.5	-12	8.23	8.12	8.01	7.93	7.85				
-9.5	-10	8.80	8.67	8.54	8.47	8.40				
-7.5	-8	9.38	9.23	9.08	9.02	8.95				
-5.5	-6	9.56	9.41	9.26	9.20	9.14				
-3.0	-4	9.74	9.59	9.45	9.38	9.32				
-1.0	-2	9.92	9.77	9.63	9.57	9.50				
1.0	0	10.10	9.96	9.81	9.75	9.68				
2.0	1	10.19	10.05	9.91	9.84	9.77				
3.0	2	10.45	10.31	10.17	10.10	10.03				
5.0	4	10.96	10.82	10.68	10.62	10.55				
7.0	6	11.48	11.34	11.20	11.13	11.07				
9.0	8	11.79	11.65	11.51	11.45	11.39				
11.5	10	12.09	11.96	11.82	11.77	11.71				
13.5	12	12.72	12.57	12.41	12.35	12.29				
15.5	14	13.35	13.18	13.01	12.94	12.88				
16.5	16	13.67	13.49	13.31	13.24	13.17				

(kW) Heating Mode:HC

PJF000Z588

Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed. (Cooling only)

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

(2) Capacities are based on the following conditions Corresponding refrigerant piping length :7.5m

Level difference of Zero.

(3) Symbols are as follows TC: Total cooling capacity (kW) SHC :Sensible heat capacity (kW) HC: Heating capacity (kW)

Model FDT125VNAWVH Indoor unit FDT125VH Outdoor unit FDC125VNA-W

Cooling Mo	ode															(kW)
0.11							Indo	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
all terrip.	12 °C	CWB	14 °C	CWB	16 °0	CWB	18 °C	CWB	19 °	CWB	20 °C	CWB	22 °C	CWB	24 °	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							13.77	9.78	14.50	9.74	14.89	9.58	15.68	9.97	16.47	13.73
-10							13.34	9.64	14.04	9.59	14.41	9.44	15.16	9.83	15.92	13.27
-5							12.89	9.49	13.56	9.44	14.18	9.37	15.44	9.90	16.69	13.92
0					10.69	8.33	12.92	9.50	14.03	9.59	14.45	9.45	15.31	9.87	16.16	13.47
5					11.27	8.53	13.01	9.53	13.89	9.55	14.30	9.40	15.11	9.81	15.93	13.28
11					11.76	8.70	13.05	9.54	13.70	9.49	14.19	9.37	15.18	9.83	16.17	13.48
13					12.25	8.88	13.09	9.56	13.51	9.43	14.09	9.34	15.25	9.85	16.41	13.68
15					12.74	9.06	13.13	9.57	13.32	9.37	13.99	9.31	15.32	9.87	16.65	13.88
17					12.28	8.89	13.23	9.60	13.71	9.49	14.25	9.39	15.33	9.87	16.41	13.68
19					12.82	9.09	13.34	9.64	14.09	9.61	14.51	9.46	15.34	9.87	16.17	13.48
21					12.60	9.01	13.20	9.59	13.94	9.57	14.36	9.42	15.19	9.83	16.02	13.35
23					12.38	8.93	13.07	9.55	13.80	9.52	14.21	9.37	15.04	9.80	15.87	13.23
25			12.24	9.53	12.26	8.89	13.00	9.53	13.72	9.50	14.14	9.35	14.97	9.78	15.79	13.17
27			12.03	9.45	12.15	8.85	12.93	9.51	13.65	9.47	14.24	9.38	14.83	9.74		
29			11.77	9.34	11.87	8.74	12.64	9.41	13.36	9.38	13.95	9.30	14.53	9.66		
31			11.51	9.24	11.58	8.64	12.34	9.31	13.07	9.29	13.66	9.21	14.24	9.59		
33	9.77		10.52	8.85	11.29	8.54	12.05	9.22	12.79	9.21	13.37	9.13	13.95	9.52		
35	9.60	8.14	10.30	8.76	11.00	8.44	11.75	9.13	12.50	9.12	13.08	9.05	13.66	9.44		
37	9.49	8.09	10.14	8.70	10.79	8.36	11.47	9.04	12.15	9.02	12.68	8.93	13.21	9.33		
39	9.37	8.04	9.97	8.64	10.58	8.29	11.19	8.95	11.80	8.91	12.28	8.82	12.77	9.23		
41	9.25	7.99	9.81	8.57	10.36	8.22	10.91	8.87	11.45	8.81	11.89	8.71	12.32	9.12		
43	9.14	7.94	9.64	8.51	10.15	8.14	10.62	8.78	11.10	8.71	11.49	8.61	11.88	9.02		
46	8.96	7.87	9.40	8.42	9.83	8.04	10.20	8.65	10.57	8.56	10.89	8.45	11.21	8.86		
50	7.00	6.86	7.16	7.02	7.37	7.22	7.57	7.41	7.72	7.56	7.85	7.69	7.98	7.82		

Heating	Mode:	HC				(kW)					
Out	door		Indoor air temperature								
air te	emp.			°CDB							
°CDB	°CWB	16	18	20	22	24					
-19.8	-20	7.60	7.51	7.42	7.33	7.24					
-17.7	-18	7.80	7.73	7.66	7.54	7.42					
-15.7	-16	8.66	8.56	8.46	8.36	8.25					
-13.5	-14	8.95	8.84	8.73	8.63	8.53					
-11.5	-12	9.52	9.39	9.26	9.17	9.08					
-9.5	-10	10.10	9.95	9.80	9.72	9.64					
-7.5	-8	10.67	10.50	10.34	10.26	10.19					
-5.5	-6	11.13	10.96	10.79	10.72	10.64					
-3.0	-4	11.59	11.42	11.25	11.17	11.09					
-1.0	-2	12.05	11.87	11.70	11.62	11.54					
1.0	0	12.50	12.33	12.16	12.07	11.99					
2.0	1	12.73	12.56	12.38	12.30	12.22					
3.0	2	13.06	12.88	12.71	12.62	12.54					
5.0	4	13.70	13.53	13.35	13.27	13.19					
7.0	6	14.35	14.18	14.00	13.92	13.84					
9.0	8	14.73	14.56	14.39	14.31	14.24					
11.5	10	15.11	14.94	14.78	14.71	14.64					
13.5	12	15.90	15.71	15.52	15.44	15.37					
15.5	14	16.69	16.48	16.26	16.18	16.09					
16.5	16	17.09	16.86	16.63	16.54	16.46					

PJF000Z588

Model FDT125VSAWVH Indoor unit FDT125VH Outdoor unit FDC125VSA-W

(kW)	Heating Mode : HC	(kW)

0.44.		Indoor air temperature														
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
all temp.	12 °C	CWB	14 °C	CWB	16 °C	CWB	18 °C	CWB	19 °C	CWB	20 °C	CWB	22 °C	CWB	24 °C	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							13.77	9.78	14.50	9.74	14.89	9.58	15.68	9.97	16.47	13.73
-10							13.34	9.64	14.04	9.59	14.41	9.44	15.16	9.83	15.92	13.27
-5							12.89	9.49	13.56	9.44	14.18	9.37	15.44	9.90	16.69	13.92
0					10.69	8.33	12.92	9.50	14.03	9.59	14.45	9.45	15.31	9.87	16.16	13.47
5					11.27	8.53	13.01	9.53	13.89	9.55	14.30	9.40	15.11	9.81	15.93	13.28
11					11.76	8.70	13.05	9.54	13.70	9.49	14.19	9.37	15.18	9.83	16.17	13.48
13					12.25	8.88	13.09	9.56	13.51	9.43	14.09	9.34	15.25	9.85	16.41	13.68
15					12.74	9.06	13.13	9.57	13.32	9.37	13.99	9.31	15.32	9.87	16.65	13.88
17					12.28	8.89	13.23	9.60	13.71	9.49	14.25	9.39	15.33	9.87	16.41	13.68
19					12.82	9.09	13.34	9.64	14.09	9.61	14.51	9.46	15.34	9.87	16.17	13.48
21					12.60	9.01	13.20	9.59	13.94	9.57	14.36	9.42	15.19	9.83	16.02	13.35
23					12.38	8.93	13.07	9.55	13.80	9.52	14.21	9.37	15.04	9.80	15.87	13.23
25			12.24	9.53	12.26	8.89	13.00	9.53	13.72	9.50	14.14	9.35	14.97	9.78	15.79	13.17
27			12.03	9.45	12.15	8.85	12.93	9.51	13.65	9.47	14.24	9.38	14.83	9.74		
29			11.77	9.34	11.87	8.74	12.64	9.41	13.36	9.38	13.95	9.30	14.53	9.66		
31			11.51	9.24	11.58	8.64	12.34	9.31	13.07	9.29	13.66	9.21	14.24	9.59		
33	9.77		10.52	8.85	11.29	8.54	12.05	9.22	12.79	9.21	13.37	9.13	13.95	9.52		
35	9.60	8.14	10.30	8.76	11.00	8.44	11.75	9.13	12.50	9.12	13.08	9.05	13.66	9.44		
37	9.49	8.09	10.14	8.70	10.79	8.36	11.47	9.04	12.15	9.02	12.68	8.93	13.21	9.33		
39	9.37	8.04	9.97	8.64	10.58	8.29	11.19	8.95	11.80	8.91	12.28	8.82	12.77	9.23		
41	9.25	7.99	9.81	8.57	10.36	8.22	10.91	8.87	11.45	8.81	11.89	8.71	12.32	9.12		
43	9.14	7.94	9.64	8.51	10.15	8.14	10.62	8.78	11.10	8.71	11.49	8.61	11.88	9.02		
46	8.96	7.87	9.40	8.42	9.83	8.04	10.20	8.65	10.57	8.56	10.89	8.45	11.21	8.86		
50	7.00	6.86	7.16	7.02	7.37	7.22	7.57	7.41	7.72	7.56	7.85	7.69	7.98	7.82		

Out	door	Indoor air temperature								
air te	emp.			°CDB						
°CDB	°CWB	16	18	20	22	24				
-19.8	-20	7.60	7.51	7.42	7.33	7.24				
-17.7	-18	7.80	7.73	7.66	7.54	7.42				
-15.7	-16	8.66	8.56	8.46	8.36	8.25				
-13.5	-14	8.95	8.84	8.73	8.63	8.53				
-11.5	-12	9.52	9.39	9.26	9.17	9.08				
-9.5	-10	10.10	9.95	9.80	9.72	9.64				
-7.5	-8	10.67	10.50	10.34	10.26	10.19				
-5.5	-6	11.13	10.96	10.79	10.72	10.64				
-3.0	-4	11.59	11.42	11.25	11.17	11.09				
-1.0	-2	12.05	11.87	11.70	11.62	11.54				
1.0	0	12.50	12.33	12.16	12.07	11.99				
2.0	1	12.73	12.56	12.38	12.30	12.22				
3.0	2	13.06	12.88	12.71	12.62	12.54				
5.0	4	13.70	13.53	13.35	13.27	13.19				
7.0	6	14.35	14.18	14.00	13.92	13.84				
9.0	8	14.73	14.56	14.39	14.31	14.24				
11.5	10	15.11	14.94	14.78	14.71	14.64				
13.5	12	15.90	15.71	15.52	15.44	15.37				
15.5	14	16.69	16.48	16.26	16.18	16.09				
16.5	16	17.09	16.86	16.63	16.54	16.46				

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Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously. These data show the case where the operation frequency of a compressor is fixed. (Cooling only)

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

(2) Capacities are based on the following conditions.

Corresponding refrigerant piping length: 7.5m

Level difference of Zero.

(3) Symbols are as follows
TC :Total cooling capacity (kW)
SHC :Sensible heat capacity (kW) HC :Heating capacity (kW)

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#

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Indoor unit FDT140VH Outdoor unit FDC140VNA-W Model FDT140VNAWVH (kW) (kW) Cooling Mode Indoor air temperature Indoor air temperature Outdoor Outdoo 21 °CDB 33 °CDB air temp 18 °CDB 23 °CDB 27 °CDB 28 °CDB 31 °CDB °CDB air temp 12 °CWB 14 °CWB 16 °CWB 18 °CWB 19 °CWB 20 °CWB 22 °CWB 24 °CWB CDB CWE 16 18 20 24 -19.8 8.07 7.88 7.68 °CDB TC TC SHC SHC TC SHC TC SHC TC SHC TC SHC TC SHC -20 7.97 7.78 SHC TC 14.99 10.45 15.78 10.43 16.21 10.27 17.06 10.65 17.92 10.27 -17.7 -18 8.20 8.13 8.05 7.93 7.80 -10 17.32 15.27 10.25 15.68 10.09 16.50 10.49 -15.7 9.09 8.87 8.76 14.51 10.28 10.12 -16 9.19 8.98 14.03 10.10 14.75 10.08 15.43 10.01 16.80 10.58 18.16 10.33 -13.5 -14 9.52 9.40 9.29 9.18 9.07 0 11.63 8.85 14.05 10.11 15.26 10.25 15.73 10.11 16.65 10.53 10.18 10.04 9.90 9.81 10.18 12.26 9.08 14.16 10.15 15.11 10.20 15.56 10.05 16.44 10.47 17.33 10.12 -9.5 -10 10.84 10.68 10.52 10.43 10.35 11 12.79 9.28 14.20 10.17 15.44 10.02 16.52 10.49 -7.5 10.98 14.91 10.13 17.59 10.19 -8 11.50 11.32 11.14 11.06 13 13.33 9.49 14.24 10.18 14.70 10.06 15.33 9.98 16.59 10.52 10.25 -5.5 12.08 11.63 15.22 9.95 15 13.86 9.70 14.29 10.20 14.50 9.99 16.67 10.54 -3.0 12.65 12.47 12.28 12.11 17 13.37 9.51 14.40 10.24 14.91 10.13 15.50 10.04 16.68 10.54 17.86 10.26 -1.0 13.23 13.04 12.85 12.77 12.68 19 1.0 0 13.95 9.73 14.51 10.28 15.33 10.27 15.78 10.13 16.69 10.54 17.59 10.19 13.81 13.62 13.42 13.33 13.24 14.36 10.22 15.17 10.22 13.71 9.64 1 14.10 13.90 13.71 13.62 13.53 21 15.62 10.08 16.53 10.50 17.43 10.15 2.0 23 13.47 9.54 14.22 10.17 15.01 10.16 15.46 10.02 16.36 10.45 17.27 10.10 3.0 14.46 14.26 14.07 13.98 13.89 15.17 25 27 13.32 10.18 13.34 9.50 14.15 10.15 14.93 10.14 15.38 10.00 16.28 10.43 17.18 10.08 5.0 4 14.98 14.78 14.69 14.60 13.09 10.08 13.22 9.45 14.07 10.12 14.85 10.11 15.49 10.03 16.13 10.38 15.50 29 12.81 9.96 12.91 9.33 13.75 10.01 14.54 10.00 15.18 9.93 15.81 10.29 9.0 8 16.31 16.12 15.93 15.85 15.77 31 12.53 9.84 12.60 9.21 13.43 9.89 14.23 9.90 14.86 9.83 15.50 10.20 11.5 10 16.73 16.55 16.36 16.28 16.21 17.61 17.39 17.18 17.10 17.01 33 10.63 8.73 11.45 9.38 12.28 9.09 13.11 9.78 13.91 9.80 14.55 9.73 15.18 10.11 13.5 12 35 10.45 8.65 11.21 9.29 11.97 8.97 12.79 9.67 13.60 9.69 14.23 9.63 14.86 10.03 14 18.48 18.24 18.00 17.91 17.82 37 10.32 8.59 11.03 9.21 11.74 8.89 12.48 9.57 13.22 9.57 13.80 9.50 14.38 9.89 16 18.92 18.67 18.41 18.32 18.22 39 10.20 8.53 10.85 9.14 11.51 8.80 12.17 9.47 12.84 9.45 13.36 9.37 13.89 9.76 41 9.07 11.87 9.37 12.45 9.33 13.41 9.64 10.07 8.48 10.67 11.28 8.72 12.93 9.24 43 11.04 8.63 9.94 10.49 9.00 11.56 9.27 12.07 9.21 12.50 9.11 12.92 9.51 46 9.75 8.34 10.22 8.89 10.70 8.51 11.10 9.12 11.50 9.03 11.85 8.92 12.20 9.33 PJF000Z588 7.44 7.79 7.64 8.02 7.59 8.23 8.07 8.40 8.13 8.54 8.02 8.68 8.49

Model F	DT140	/SAW\	/H		Indoor	unit F	DT140	VH			Outdoo	or unit	FDC1	40VSA	-W									
Cooling M	lode															(kW)	Не	ating	Mode:l	HC				(kW)
							Inde	oor air t	empera	ture							Г	Outo	door		Indoor	air temp	erature	;
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB		air te	emp.			°CDB		
all temp.	12 °C	CWB	14 °0	CWB	16 °	CWB	18 °	CWB	19 °	CWB	20 °C	CWB	22 °	CWB	24 °0	CWB	٩	CDB	°CWB	16	18	20	22	24
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC		19.8	-20	8.07	7.97	7.88	7.78	7.68
-15							14.99	10.45	15.78	10.43	16.21	10.27	17.06	10.65	17.92	10.27	-	17.7	-18	8.20	8.13	8.05	7.93	7.80
-10							14.51	10.28	15.27	10.25	15.68	10.09	16.50	10.49	17.32	10.12	E	15.7	-16	9.19	9.09	8.98	8.87	8.76
-5							14.03	10.10	14.75	10.08	15.43	10.01	16.80	10.58	18.16	10.33	_	13.5	-14	9.52	9.40	9.29	9.18	9.07
0					11.63	8.85	14.05	10.11	15.26	10.25	15.73	10.11	16.65	10.53	17.58	10.18	_	11.5	-12	10.18	10.04	9.90	9.81	9.71
5					12.26	9.08	14.16	10.15	15.11	10.20	15.56	10.05	16.44	10.47	17.33	10.12	_	9.5	-10	10.84	10.68	10.52		10.35
11					12.79	9.28	14.20	10.17	14.91	10.13	15.44	10.02	16.52	10.49	17.59	10.19		7.5	-8	11.50	11.32	11.14	11.06	10.98
13					13.33	9.49	14.24	10.18	14.70	10.06	15.33	9.98	16.59	10.52	17.86	10.25	_	5.5	-6	12.08	11.89	11.71	11.63	11.55
15					13.86	9.70	14.29	10.20	14.50	9.99	15.22	9.95	16.67	10.54	18.12	10.32	Ŀ	3.0	-4	12.65	12.47	12.28	12.20	12.11
17					13.37	9.51	14.40	10.24	14.91	10.13	15.50	10.04	16.68	10.54	17.86	10.26	Ŀ	1.0	-2	13.23	13.04	12.85	12.77	12.68
19					13.95	9.73	14.51	10.28	15.33	10.27	15.78	10.13	16.69	10.54	17.59	10.19	_	1.0	0	13.81	13.62	13.42	13.33	13.24
21					13.71	9.64	14.36	10.22	15.17	10.22	15.62	10.08	16.53	10.50	17.43	10.15		2.0	1	14.10	13.90	13.71	13.62	13.53
23					13.47	9.54	14.22	10.17	15.01	10.16	15.46	10.02	16.36	10.45	17.27	10.10	_	3.0	2	14.46	14.26	14.07	13.98	13.89
25			13.32	10.18	13.34	9.50	14.15	10.15	14.93	10.14	15.38	10.00	16.28	10.43	17.18	10.08	_	5.0	4	15.17	14.98	14.78	14.69	14.60
27			13.09	10.08	13.22	9.45	14.07	10.12	14.85	10.11	15.49	10.03	16.13	10.38			_	7.0	6	15.89	15.69	15.50	15.41	15.32
29			12.81	9.96	12.91	9.33	13.75	10.01	14.54	10.00	15.18	9.93	15.81	10.29			_	9.0	8	16.31	16.12	15.93		15.77
31			12.53	9.84	12.60	9.21	13.43	9.89	14.23	9.90	14.86	9.83	15.50	10.20			_	1.5	10	16.73	16.55	_		16.21
33	10.63	8.73	11.45	9.38	12.28	9.09	13.11	9.78	13.91	9.80	14.55	9.73	15.18	10.11			_	3.5	12	17.61	17.39	17.18	17.10	17.01
35	10.45	8.65	11.21	9.29	11.97	8.97	12.79	9.67	13.60	9.69	14.23	9.63	14.86	10.03			1	5.5	14	18.48	18.24	18.00	17.91	17.82

13.80 9.50

13.36 9.37

12.93 9.24

12.50 9.11

11.85 8.92

8.54 8.02 8.68 8.49

14.38 9.89

13.89 9.76

13.41 9.64

12.20 9.33

12.92 9.51

7.44 Notes(1 These data show average status

11.03 9.21

10.20 8.53 10.85 9.14

10.07 8.48 10.67 9.07

9.75 8.34 10.22 8.89

7.61

10.32 8.59

37

39

41

43

46

50

Depending on the system control, there may be ranges where the operation is not conducted continuously. These data show the case where the operation frequency of a compressor is fixed. (Cooling only)

12.48 9.57

12.17 9.47

11.87 9.37

11.56 9.27

11.10 9.12

In the heatin mode in which the outside air tem erature is 0°CDB or less, the com ressor o erates at maximum fre uenc.

13.22 9.57

12.84 9.45

12.45 9.33

12.07 9.21

11.50 9.03

8.40 8.13

Capacities are based on the following conditions. Corresponding refrigerant piping length :7.5m Level difference of Zero.

11.74 8.89

11.04 8.63

7.79 7.64 8.02 7.59 8.23 8.07

11.51 8.80

11.28 8.72

10.70 8.51

(3) Symbols are as follows

TC :Total cooling capacity (kW) SHC :Sensible heat capacity (kW) HC :Heating capacity (kW)

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(b) Twin type

Indoor unit FDT50VH (2 units) Model FDT100VNAWPVH Outdoor unit FDC100VNA-W Cooling Mode

000111118 11																(,,,,,,
0.11			_				Inde	oor air t	empera	ture	_		_		_	
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
an temp.	12 °	CWB	14 °	CWB	16 °0	CWB	18 °	CWB	19 °	CWB	20 °	CWB	22 °	CWB	24 °	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.02	9.25	11.60	9.16	11.92	8.99	12.55	9.49	13.18	9.12
-10							10.67	9.16	11.23	9.07	11.53	8.91	12.13	9.42	12.73	9.06
-5							10.31	9.08	10.85	8.98	11.35	8.87	12.35	9.46	13.36	9.14
0					8.55	7.99	10.33	9.08	11.22	9.07	11.56	8.92	12.25	9.44	12.93	9.08
5					9.01	8.11	10.41	9.10	11.11	9.04	11.44	8.89	12.09	9.41	12.74	9.06
11					9.41	8.22	10.44	9.11	10.96	9.01	11.36	8.87	12.15	9.42	12.94	9.08
13					9.80	8.33	10.47	9.12	10.81	8.98	11.27	8.86	12.20	9.43	13.13	9.11
15					10.19	8.44	10.50	9.12	10.66	8.94	11.19	8.84	12.26	9.44	13.32	9.14
17					9.83	8.34	10.59	9.14	10.97	9.01	11.40	8.88	12.26	9.44	13.13	9.11
19					10.26	8.46	10.67	9.16	11.27	9.08	11.61	8.93	12.27	9.44	12.94	9.09
21					10.08	8.41	10.56	9.14	11.15	9.05	11.49	8.90	12.15	9.42	12.82	9.07
23					9.90	8.36	10.45	9.11	11.04	9.03	11.37	8.88	12.03	9.40	12.70	9.05
25			9.79	8.92	9.81	8.33	10.40	9.10	10.98	9.01	11.31	8.86	11.97	9.39	12.63	9.04
27			9.62	8.86	9.72	8.31	10.35	9.08	10.92	9.00	11.39	8.88	11.86	9.37		
29			9.42	8.80	9.49	8.24	10.11	9.03	10.69	8.95	11.16	8.83	11.63	9.33		
31			9.21	8.73	9.26	8.18	9.87	8.97	10.46	8.90	10.93	8.78	11.39	9.29		
33	7.82	7.66	8.42	8.25	9.03	8.12	9.64	8.92	10.23	8.85	10.70	8.74	11.16	9.26		
35	7.68	7.53	8.24	8.08	8.80	8.06	9.40	8.86	10.00	8.80	10.46	8.69	10.93	9.22		
37	7.59	7.44	8.11	7.95	8.63	8.01	9.18	8.81	9.72	8.74	10.15	8.63	10.57	9.16		
39	7.50	7.35	7.98	7.82	8.46	7.97	8.95	8.76	9.44	8.68	9.83	8.57	10.22	9.10		
41	7.40	7.25	7.85	7.69	8.29	7.92	8.72	8.55	9.16	8.62	9.51	8.50	9.86	9.05		
43	7.31	7.16	7.72	7.56	8.12	7.88	8.50	8.33	8.88	8.56	9.19	8.44	9.50	8.99		
46	7.17	7.03	7.52	7.37	7.87	7.71	8.16	8.00	8.46	8.29	8.71	8.36	8.97	8.79		
50	5.60	5.49	5.73	5.62	5.90	5.78	6.05	5.93	6.17	6.05	6.28	6.15	6.38	6.26		l

(kW)	Heating	Mode:	нс				(kW
	Out	door		Indoor	air temp	erature	;
DB	air te	emp.			°CDB		
٧B	°CDB	°CWB	16	18	20	22	24
SHC	-19.8	-20	6.47	6.40	6.32	6.24	6.16
9.12	-17.7	-18	6.52	6.46	6.40	6.30	6.20
9.06	-15.7	-16	7.37	7.29	7.20	7.11	7.02
9.14	-13.5	-14	7.66	7.57	7.47	7.38	7.30
9.08	-11.5	-12	8.23	8.12	8.01	7.93	7.85
9.06	-9.5	-10	8.80	8.67	8.54	8.47	8.40
9.08	-7.5	-8	9.38	9.23	9.08	9.02	8.95
9.11	-5.5	-6	9.56	9.41	9.26	9.20	9.14
9.14	-3.0	-4	9.74	9.59	9.45	9.38	9.32
9.11	-1.0	-2	9.92	9.77	9.63	9.57	9.50
9.09	1.0	0	10.10	9.96	9.81	9.75	9.68
9.07	2.0	1	10.19	10.05	9.91	9.84	9.77
9.05	3.0	2	10.45	10.31	10.17	10.10	10.03
9.04	5.0	4	10.96	10.82	10.68	10.62	10.55
	7.0	6	11.48	11.34	11.20	11.13	11.07
	9.0	8	11.79	11.65	11.51	11.45	11.39
	11.5	10	12.09	11.96	11.82	11.77	11.71
	13.5	12	12.72	12.57	12.41	12.35	12.29
	15.5	14	13.35	13.18	13.01	12.94	12.88
	16.5	16	13.67	13.49	13.31	13.24	13.17

PJF000Z588

Model FDT100VSAWPVH

Indoor unit FDT50VH (2 units)

Outdoor unit FDC100VSA-W

								`	,							
Cooling M	lode															(kV
							Inde	oor air t	empera	iture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
ali terrip.	12 °	CWB	14 °	CWB	16 °	CWB	18 °	CWB	19 °	CWB	20 °	CWB	22 °	CWB	24 °(CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.02	9.25	11.60	9.16	11.92	8.99	12.55	9.49	13.18	9.12
-10							10.67	9.16	11.23	9.07	11.53	8.91	12.13	9.42	12.73	9.06
-5							10.31	9.08	10.85	8.98	11.35	8.87	12.35	9.46	13.36	9.14
0					8.55	7.99	10.33	9.08	11.22	9.07	11.56	8.92	12.25	9.44	12.93	9.08
5					9.01	8.11	10.41	9.10	11.11	9.04	11.44	8.89	12.09	9.41	12.74	9.06
11					9.41	8.22	10.44	9.11	10.96	9.01	11.36	8.87	12.15	9.42	12.94	9.08
13					9.80	8.33	10.47	9.12	10.81	8.98	11.27	8.86	12.20	9.43	13.13	9.11
15					10.19	8.44	10.50	9.12	10.66	8.94	11.19	8.84	12.26	9.44	13.32	9.14
17					9.83	8.34	10.59	9.14	10.97	9.01	11.40	8.88	12.26	9.44	13.13	9.11
19					10.26	8.46	10.67	9.16	11.27	9.08	11.61	8.93	12.27	9.44	12.94	9.09
21					10.08	8.41	10.56	9.14	11.15	9.05	11.49	8.90	12.15	9.42	12.82	9.07
23					9.90	8.36	10.45	9.11	11.04	9.03	11.37	8.88	12.03	9.40	12.70	9.05
25			9.79	8.92	9.81	8.33	10.40	9.10	10.98	9.01	11.31	8.86	11.97	9.39	12.63	9.04
27			9.62	8.86	9.72	8.31	10.35	9.08	10.92	9.00	11.39	8.88	11.86	9.37		
29			9.42	8.80	9.49	8.24	10.11	9.03	10.69	8.95	11.16	8.83	11.63	9.33		ļ
31			9.21	8.73	9.26	8.18	9.87	8.97	10.46	8.90	10.93	8.78	11.39	9.29		ļ
33	7.82	7.66	8.42	8.25	9.03	8.12	9.64	8.92	10.23	8.85	10.70	8.74	11.16	9.26		ļ
35	7.68	7.53	8.24	8.08	8.80	8.06	9.40	8.86	10.00	8.80	10.46	8.69	10.93	9.22		
37	7.59	7.44	8.11	7.95	8.63	8.01	9.18	8.81	9.72	8.74	10.15	8.63	10.57	9.16	<u> </u>	<u> </u>
39	7.50	7.35	7.98	7.82	8.46	7.97	8.95	8.76	9.44	8.68	9.83	8.57	10.22	9.10		<u> </u>
41	7.40	7.25	7.85	7.69	8.29	7.92	8.72	8.55	9.16	8.62	9.51	8.50	9.86	9.05	<u> </u>	<u> </u>
43	7.31	7.16	7.72	7.56	8.12	7.88	8.50	8.33	8.88	8.56	9.19	8.44	9.50	8.99	<u> </u>	<u> </u>
46	7.17	7.03	7.52	7.37	7.87	7.71	8.16	8.00	8.46	8.29	8.71	8.36	8.97	8.79	<u> </u>	<u> </u>
50	5.60	5.49	5.73	5.62	5.90	5.78	6.05	5.93	6.17	6.05	6.28	6.15	6.38	6.26	1	1

(kW)				landa an	- ! 4	4	(kW
		door		indoor	air temp	perature	;
DВ	air t	emp.			°CDB		
VВ	°CDB	°CWB	16	18	20	22	24
SHC	-19.8	-20	6.47	6.40	6.32	6.24	6.16
9.12	-17.7	-18	6.52	6.46	6.40	6.30	6.20
9.06	-15.7	-16	7.37	7.29	7.20	7.11	7.02
9.14	-13.5	-14	7.66	7.57	7.47	7.38	7.30
9.08	-11.5	-12	8.23	8.12	8.01	7.93	7.85
9.06	-9.5	-10	8.80	8.67	8.54	8.47	8.40
9.08	-7.5	-8	9.38	9.23	9.08	9.02	8.95
9.11	-5.5	-6	9.56	9.41	9.26	9.20	9.14
9.14	-3.0	-4	9.74	9.59	9.45	9.38	9.32
9.11	-1.0	-2	9.92	9.77	9.63	9.57	9.50
9.09	1.0	0	10.10	9.96	9.81	9.75	9.68
9.07	2.0	1	10.19	10.05	9.91	9.84	9.77
9.05	3.0	2	10.45	10.31	10.17	10.10	10.03
9.04	5.0	4	10.96	10.82	10.68	10.62	10.55
	7.0	6	11.48	11.34	11.20	11.13	11.07
	9.0	8	11.79	11.65	11.51	11.45	11.39
	11.5	10	12.09	11.96	11.82	11.77	11.71
	13.5	12	12.72	12.57	12.41	12.35	12.29
	15.5	14	13.35	13.18	13.01	12.94	12.88
	16.5	16	13.67	13.49	13.31	13.24	13.17

PJF000Z588 ∕A

Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed. (Cooling only)
In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

(2) Capacities are based on the following conditions.

Corresponding refrigerant piping length :7.5m Level difference of Zero.

(3) Symbols are as follows
TC :Total cooling capacity (kW)
SHC :Sensible heat capacity (kW)
HC :Heating capacity (kW)

Model FDT125VNAWPVH Indoor unit FDT60VH (2 units) Outdoor unit FDC125VNA-W

Cooling Mo	ode															(kW)
0							Ind	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
all tellip.	12 °C	CWB	14 °	CWB	16 °	CWB	18 °	CWB	19 °	CWB	20 °	CWB	22 °	CWB	24 °C	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							13.77	12.20	14.50	12.17	14.89	12.03	15.68	12.72	16.47	13.73
-10							13.34	12.06	14.04	12.03	14.41	11.89	15.16	12.59	15.92	13.27
-5							12.89	11.92	13.56	11.89	14.18	11.82	15.44	12.66	16.69	13.92
0					10.69	10.42	12.92	11.93	14.03	12.03	14.45	11.90	15.31	12.63	16.16	13.47
5					11.27	10.62	13.01	11.96	13.89	11.99	14.30	11.86	15.11	12.58	15.93	13.28
11					11.76	10.79	13.05	11.97	13.70	11.93	14.19	11.83	15.18	12.60	16.17	13.48
13					12.25	10.96	13.09	11.99	13.51	11.87	14.09	11.80	15.25	12.61	16.41	13.68
15					12.74	11.13	13.13	12.00	13.32	11.82	13.99	11.77	15.32	12.63	16.65	13.88
17					12.28	10.97	13.23	12.03	13.71	11.93	14.25	11.84	15.33	12.63	16.41	13.68
19					12.82	11.16	13.34	12.06	14.09	12.05	14.51	11.92	15.34	12.64	16.17	13.48
21					12.60	11.08	13.20	12.02	13.94	12.00	14.36	11.87	15.19	12.60	16.02	13.35
23					12.38	11.00	13.07	11.98	13.80	11.96	14.21	11.83	15.04	12.56	15.87	13.23
25			12.24	11.63	12.26	10.96	13.00	11.96	13.72	11.94	14.14	11.81	14.97	12.54	15.79	13.17
27			12.03	11.54	12.15	10.92	12.93	11.94	13.65	11.92	14.24	11.84	14.83	12.51		
29			11.77	11.44	11.87	10.82	12.64	11.84	13.36	11.83	13.95	11.76	14.53	12.43		
31			11.51	11.28	11.58	10.72	12.34	11.75	13.07	11.74	13.66	11.68	14.24	12.36		
33	9.77		10.52	10.31	11.29	10.63	12.05	11.66	12.79	11.66	13.37	11.59	13.95	12.29		
35	9.60	9.41	10.30	10.10	11.00	10.53	11.75	11.52	12.50	11.57	13.08	11.51	13.66	12.21		
37	9.49	9.30	10.14	9.94	10.79	10.46	11.47	11.24	12.15	11.47	12.68	11.40	13.21	12.10		
39	9.37	9.18	9.97	9.77	10.58	10.36	11.19	10.96	11.80	11.37	12.28	11.29	12.77	12.00		
41	9.25	9.07	9.81	9.61	10.36	10.16	10.91	10.69	11.45	11.22	11.89	11.18	12.32	11.89		
43	9.14	8.95	9.64	9.45	10.15	9.95	10.62	10.41	11.10	10.87	11.49	11.08	11.88	11.64		
46	8.96	8.78	9.40	9.21	9.83	9.63	10.20	10.00	10.57	10.36	10.89	10.67	11.21	10.99		
50	7.00	6.86	7.16	7.02	7.37	7.22	7.57	7.41	7.72	7.56	7.85	7.69	7.98	7.82		

Heating	19.8 -20 7.60 7.51 7.42 7.33 7.24 17.7 -18 7.80 7.73 7.66 7.54 7.42 15.7 -16 8.66 8.56 8.46 8.36 8.25 13.5 -14 8.95 8.84 8.73 8.63 8.53 11.5 -12 9.52 9.39 9.26 9.17 9.08 9.5 -10 10.10 9.95 9.80 9.72 9.64 7.5 -8 10.67 10.50 10.34 10.26 10.19 5.5 -6 11.13 10.96 10.79 10.72 10.64 3.0 -4 11.59 11.42 11.25 11.17 11.02 11.54									
Out	door		Indoor	air temp	erature)				
air te	emp.			°CDB						
°CDB	°CWB	16	18	20	22	24				
-19.8	-20	7.60	7.51	7.42	7.33	7.24				
-17.7	-18	7.80	7.73	7.66	7.54	7.42				
-15.7	-16	8.66	8.56	8.46	8.36	8.25				
-13.5	-14	8.95	8.84	8.73	8.63	8.53				
-11.5	-12	9.52	9.39	9.26	9.17	9.08				
-9.5	-10	10.10	9.95	9.80	9.72	9.64				
-7.5	-8	10.67	10.50	10.34	10.26	10.19				
-5.5	-6	11.13	10.96	10.79	10.72	10.64				
-3.0	-4	11.59	11.42	11.25	11.17	11.09				
-1.0	-2	12.05	11.87	11.70	11.62	11.54				
1.0	0	12.50	12.33	12.16	12.07	11.99				
2.0	1	12.73	12.56	12.38	12.30	12.22				
3.0	2	13.06	12.88	12.71	12.62	12.54				
5.0	4	13.70	13.53	13.35	13.27	13.19				
7.0	6	14.35	14.18	14.00	13.92	13.84				
9.0	8	14.73	14.56	14.39	14.31	14.24				
11.5	10	15.11	14.94	14.78	14.71	14.64				
13.5	12	15.90	15.71	15.52	15.44	15.37				
15.5	14	16.69	16.48	16.26	16.18	16.09				
16.5	16	17.09	16.86	16.63	16.54	16.46				

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Model FDT125VSAWPVH Indoor unit FDT60VH (2 units) Outdoor unit FDC125VSA-W

							Inde	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
all temp.	12 °C	CWB	14 °	CWB	16 °	CWB	18 °	CWB	19 °	CWB	20 °	CWB	22 °(CWB	24 °	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							13.77	12.20	14.50	12.17	14.89	12.03	15.68	12.72	16.47	13.73
-10							13.34	12.06	14.04	12.03	14.41	11.89	15.16	12.59	15.92	13.27
-5							12.89	11.92	13.56	11.89	14.18	11.82	15.44	12.66	16.69	13.92
0					10.69	10.42	12.92	11.93	14.03	12.03	14.45	11.90	15.31	12.63	16.16	13.47
5					11.27	10.62	13.01	11.96	13.89	11.99	14.30	11.86	15.11	12.58	15.93	13.28
11					11.76	10.79	13.05	11.97	13.70	11.93	14.19	11.83	15.18	12.60	16.17	13.48
13					12.25	10.96	13.09	11.99	13.51	11.87	14.09	11.80	15.25	12.61	16.41	13.68
15					12.74	11.13		12.00	13.32	11.82	13.99	11.77	15.32	12.63	16.65	13.88
17					12.28	10.97	13.23	12.03	13.71	11.93	14.25	11.84	15.33	12.63	16.41	13.68
19					12.82	11.16	13.34	12.06	14.09	12.05	14.51	11.92	15.34	12.64	16.17	13.48
21					12.60	11.08	13.20	12.02	13.94	12.00	14.36	11.87	15.19	12.60	16.02	13.35
23					12.38	11.00	13.07	11.98	13.80	11.96	14.21	11.83	15.04	12.56	15.87	13.23
25			12.24	11.63	12.26	10.96		11.96	13.72	11.94	14.14	11.81	14.97	12.54	15.79	13.17
27			12.03	11.54	12.15	10.92	12.93	11.94	13.65	11.92	14.24	11.84	14.83	12.51		
29			11.77	11.44	11.87	10.82		11.84	13.36	11.83	13.95	11.76	14.53	12.43		
31			11.51	11.28	11.58	10.72	12.34	11.75	13.07	11.74	13.66	11.68	14.24	12.36		
33	9.77		10.52	10.31	11.29	10.63	12.05	11.66	12.79	11.66	13.37	11.59	13.95	12.29		
35	9.60	9.41	10.30	10.10	11.00	10.53	11.75	11.52	12.50	11.57	13.08	11.51	13.66	12.21		
37	9.49	9.30	10.14	9.94	10.79	10.46	11.47	11.24	12.15	11.47	12.68	11.40	13.21	12.10		
39	9.37	9.18	9.97	9.77	10.58	10.36	11.19	10.96	11.80	11.37	12.28	11.29	12.77	12.00		
41	9.25	9.07	9.81	9.61	10.36	10.16	10.91	10.69	11.45	11.22	11.89	11.18	12.32	11.89		
43	9.14	8.95	9.64	9.45	10.15	9.95	10.62	10.41	11.10	10.87	11.49	11.08	11.88	11.64		
46	8.96	8.78	9.40	9.21	9.83	9.63	10.20	10.00	10.57	10.36	10.89	10.67	11.21	10.99		
50	7.00	6.86	7.16	7.02	7.37	7.22	7.57	7.41	7.72	7.56	7.85	7.69	7.98	7.82		

(kW)		Heating	Mode :	HC				(kW)
		Out	door		Indoor	air temp	erature	
DB		air te	emp.			°CDB		
WB		°CDB	°CWB	16	18	20	22	24
SHC		-19.8	-20	7.60	7.51	7.42	7.33	7.24
13.73		-17.7	-18	7.80	7.73	7.66	7.54	7.42
13.27		-15.7	-16	8.66	8.56	8.46	8.36	8.25
13.92		-13.5	-14	8.95	8.84	8.73	8.63	8.53
13.47		-11.5	-12	9.52	9.39	9.26	9.17	9.08
13.28		-9.5	-10	10.10	9.95	9.80	9.72	9.64
13.48		-7.5	-8	10.67	10.50	10.34	10.26	10.19
13.68		-5.5	-6	11.13	10.96	10.79	10.72	10.64
13.88		-3.0	-4	11.59	11.42	11.25	11.17	11.09
13.68		-1.0	-2	12.05	11.87	11.70	11.62	11.54
13.48		1.0	0	12.50	12.33	12.16	12.07	11.99
13.35		2.0	1	12.73	12.56	12.38	12.30	12.22
13.23		3.0	2	13.06	12.88	12.71	12.62	12.54
13.17		5.0	4	13.70	13.53	13.35	13.27	13.19
		7.0	6	14.35	14.18	14.00	13.92	13.84
		9.0	8	14.73	14.56	14.39	14.31	14.24
		11.5	10	15.11	14.94	14.78	14.71	14.64
		13.5	12	15.90	15.71	15.52	15.44	15.37
		15.5	14	16.69	16.48	16.26	16.18	16.09
		16.5	16	17.09	16.86	16.63	16.54	16.46
	ľ							

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Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously. These data show the case where the operation frequency of a compressor is fixed. (Cooling only)

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

(2) Capacities are based on the following conditions.

Corresponding refrigerant piping length: 7.5m

Level difference of Zero.

(3) Symbols are as follows
TC :Total cooling capacity (kW)
SHC :Sensible heat capacity (kW) HC :Heating capacity (kW)

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Model FDT140VNAWPVH Indoor unit FDT71VH (2 units) Outdoor unit FDC140VNA-W (kW) ooling Mode (kW) Indoor air temperature Indoor air temperature Outdoor Outdoo air temp 18 °CDB 21 °CDB 23 °CDB 26 °CDB 27 °CDB 28 °CDB 31 °CDB 33 °CDB °CDB air temp 12 °CWB 14 °CWB 16 °CWB 18 °CWB 19 °CWB 20 °CWB 22 °CWB 24 °CWB °CDB I °CWB 16 18 20 24 7.68 °CDB TC TC SHC TC SHC SHC SHC TC SHC -19.8 -20 8.07 7.97 7.88 7.78 TC SHC SHC TC SHC TC TC 14.99 12.69 15.78 12.62 16.21 12.43 17.06 13.12 17.92 12.70 -17.7 -18 8.20 8 13 8.05 7.93 7.80 -10 15.27 12.48 15.68 12.30 16.50 12.99 17.32 8.87 8.76 14.51 12.55 12.58 -15.7 -16 9.19 9.09 8.98 14.03 12.41 14.75 12.34 15.43 12.23 16.80 13.06 18.16 12.74 -13.5 9.40 9.29 9.07 -14 9.52 9.18 0 15.26 12.48 11.63 10.88 14.05 12.42 15.73 12.31 10.18 10.04 9.90 9 81 12.26 11.08 14.16 12.45 15.11 12.43 15.56 12.26 16.44 12.98 17.33 12.58 -9.5 -10 10.84 10.68 10.52 10.43 10.35 11 12.79 11.25 15.44 12.24 14.20 12.46 14.91 12.38 16.52 13.00 17.59 12.63 -7.5 -8 11.50 11.32 11.14 11.06 10.98 13 13.33 11.42 14.24 12.47 14.70 12.32 15.33 12.21 16.59 13.02 12.68 -5.5 12.08 11.63 13.86 11.59 14.29 12.49 15 14.50 12.27 16.67 13.03 -3.0 12.65 12.47 12.28 12.11 15.22 12.18 17 13.37 11.43 14.40 12.52 14.91 12.38 15.50 12.25 16.68 13.03 17.86 12.68 -1.0 13.23 13.04 12.85 12.77 12.68 19 13.81 13.95 11.62 14.51 12.55 15.33 12.49 15.78 12.32 16.69 13.04 17.59 12.63 1.0 13.62 13.42 13.33 13.24 21 13.71 11.54 14.36 12.51 15.17 12.45 15.62 12.28 16.53 13.00 17.43 12.60 2.0 1 14.10 13.90 13.71 13.62 23 13.47 11.46 14.22 12.47 15.01 12.41 15.46 12.24 16.36 12.96 17.27 12.57 3.0 14.46 14.26 14.07 13.98 13.89 25 27 13.32 12.17 13.34 11.42 14.15 12.44 14.93 12.39 15.38 12.22 16.28 12.95 17.18 12.55 5.0 4 15.17 14.98 14.78 14.69 14.60 14.07 12.42 13.09 12.09 13.22 11.38 14.85 12.36 15.49 12.25 16.13 12.91 15.50 29 12.81 11.99 12.91 11.28 13.75 12.33 14.54 12.28 15.18 12.17 15.81 12.84 9.0 8 16.31 16.12 15.93 15.85 15.77 31 12.53 11.89 12.60 11.18 13.43 12.24 14.23 12.19 14.86 12.09 15.50 12.77 11.5 10 16.73 16.55 16.36 16.28 16.21 33 10.63 10.42 11.45 11.22 12.28 11.09 13.11 12.15 13 91 12 11 14.55 12.01 15.18 12.70 13.5 12 17.61 17.39 17.18 17.10 17.01 35 10.45 10.24 11.21 10.98 11.97 10.99 12.79 12.06 13.60 12.03 14.23 11.93 14.86 12.64 14 18.48 18.24 18.00 17.91 17.82 37 10.32 10.12 11.03 10.81 11.74 10.92 12.48 11.98 13.22 11.93 13.80 11.82 14.38 12.53 16 18.92 18.67 18.41 18.32 18.22 39 10.20 9.99 10.85 10.63 11.51 10.84 12.17 11.89 12.84 11.83 13.36 11.72 13.89 12.43 41 12.45 11.73 10.07 9.87 10.67 10.46 11.28 10.77 11.87 11.63 12.93 11.61 13.41 12.33 43 9.94 10.49 10.28 11.04 10.70 11.56 11.33 12.07 11.63 12.50 11.51 12.92 12.23 46 9.56 10.02 10.70 10.48 11.10 10.88 11.50 11.27 11.85 11.36 12.20 11.95 9.75 10.22 PJF000Z588 50 7.61 7.46 7.79 7.64 8.02 7.86 8.23 8.07 8.40 8.23 8.54 8.37 8.68 8.51

Model FDT140VSAWPVH Indoor unit FDT71VH (2 units) Outdoor unit FDC140VSA-W (kW) Cooling Mode (kW) Heating Mode:HC Indoor air temperature Indoor air temperature Outdoo Outdoo air temp 18 °CDB 21 °CDB 23 °CDB 26 °CDB 27 °CDB 28 °CDB 31 °CDB 33 °CDB °CDB air temp 12 °CWB 14 °CWB 16 °CWB 18 °CWB 19 °CWB 20 °CWB 22 °CWB 24 °CWB CDB CWB 20 24 16 18 -19.8 -20 8.07 7.97 7.88 7.68 °CDB SHC SHC 7.78 TC SHC TC SHC TC SHC TC TC SHC TC SHC TC TC SHC -15 14 99 12 69 15 78 12 62 16 21 12 43 17 06 13 12 17 92 12 70 -17 7 -18 8 20 8 13 8.05 7 93 7.80 -10 14.51 12.55 15.27 12.48 15.68 12.30 16.50 12.99 17.32 12.58 -15.7 -16 9.19 9.09 8.98 8.87 8.76 14.03 12.41 14.75 12.34 15.43 12.23 16.80 13.06 18.16 12.74 -13.5 -14 9.40 9.29 9.52 9.18 9.07 0 11.63 14.05 12.42 15.26 12.48 16.65 13.03 10.18 10.04 12.26 11.08 14.16 12.45 15.11 12.43 15.56 12.26 16.44 12.98 17.33 12.58 -9.5 10.84 10.68 10.52 10.43 10.35 11 12.79 11.25 14.20 12.46 14.91 12.38 15.44 12.24 16.52 13.00 17.59 12.63 -7.5 -8 11.50 11.32 11.14 11.06 10.98 13.33 11.42 14.24 12.47 14.70 12.32 15.33 12.21 16.59 13.02 17.86 12.68 -5.5 11.89 -6 2.08 11.63 11.55 15 11.59 14.29 12.49 16 67 13 03 -3 N 12 47 12 11 13.86 14.50 12.27 12.73 17 13.37 11.43 14.40 12.52 14.91 12.38 15.50 12.25 16.68 13.03 17.86 12.68 -1.0 13.23 13.04 12.85 12.77 12.68 19 14.51 12.55 16.69 13.04 1.0 0 13.81 | 13.62 | 13.42 | 13.33 | 13.24 13.95 11.62 15.33 12.49 15.78 12.32 17.59 12.63 21 13.71 11.54 14.36 12.51 15.17 12.45 15.62 12.28 16.53 13.00 17.43 12.60 2.0 14.10 13.90 13.71 13.62 11.46 14.22 12.47 15.46 12.24 16.36 12.96 3.0 14.46 14.26 14.07 13.98 13.89 13.47 15.01 12.41 12.57 5.0 7.0 25 27 13.32 12.17 13.34 11.42 14.15 12.44 14.93 12.39 15.38 12.22 16.28 12.95 17.18 12.55 4 15.17 14.98 14.78 14.69 14.60 16.13 12.91 11.38 14.07 12.42 15.49 12.25 15.69 15.50 14.85 12.36 15.41 15.32 13.09 13.22 15.89 12.09 14.54 12.28 29 12.81 11.99 12.91 11.28 13.75 12.33 15.18 12.17 15.81 12.84 9.0 16.31 16.12 15.85 15.77 31 11.89 12.60 11.18 13.43 12.24 14.23 12.19 14.86 12.09 15.50 12.77 11.5 10 16.73 16.55 16.36 16.28 16.21

14.55 12.01

14.23 11.93

13.80 11.82

13.36 11.72

12.93 11.61

11.85 11.36

12.50 11.51 12.92 12.23

8.54 8.37 8.68 8.51

15.18 12.70

14.86 12.64

14.38 12.53

13.89 12.43

13.41 12.33

12.20 11.95

13.5 12

16.5 16 17.61 17.39 17.18

18.48 18.24

17.10 17.01

18.00 17.91

18.92 18.67 18.41 18.32 18.2

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7.46 Notes(1 These data show average status

11.45 11.22 12.28 11.09

11.21

11.03

10.85 10.63

10.22 10.02

33 35

37

39

41

43

46

50

10.63 10.42

10.32 10.12

10.45 10.24

10.20 9.99

10.07 9.87 10.67 10.46

9.75 9.56

7.61

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed. (Cooling only)

13.11 12.15

12.79 12.06

12.48 11.98

12.17 11.89

11.87 11.63

11.10 10.88

10.99

10.70

11.97

11.51 10.84

11.28 10.77

10.70 10.48

11.74 10.92

7.79 7.64 8.02 7.86 8.23 8.07

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency

13.91 12.11

13.60 12.03

13.22 11.93

12.84 11.83

12.45 11.73

12.07 11.63

11.50 11.27

8.40 8.23

Capacities are based on the following conditions.

10.81

Corresponding refrigerant piping length :7.5m Level difference of Zero.

(3) Symbols are as follows

TC :Total cooling capacity (kW) SHC :Sensible heat capacity (kW) HC :Heating capacity (kW)

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(c) Triple type

Model FDT140VNAWTVH Indoor unit FDT50VH (3 units) Outdoor unit FDC140VNA-W Cooling Mode

							Inde	oor air t	empera	ture						
Outdoor air temp.	18°	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
un tomp.	12 °	CWB	14 °	CWB	16 °0	CWB	18 °	CWB	19 °	CWB	20 °	CWB	22 °	CWB	24 °	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							14.99	13.50	15.78	13.37	16.21	13.14	17.06	13.94	17.92	13.43
-10							14.51	13.39	15.27	13.26	15.68	13.03	16.50	13.84	17.32	13.35
-5							14.03	13.27	14.75	13.14	15.43	12.98	16.80	13.89	18.16	13.46
0					11.63	11.40	14.05	13.28	15.26	13.25	15.73	13.04	16.65	13.87	17.58	13.38
5					12.26	11.83	14.16	13.31	15.11	13.22	15.56	13.01	16.44	13.83	17.33	13.35
11					12.79	11.98	14.20	13.32	14.91	13.18	15.44	12.99	16.52	13.85	17.59	13.38
13					13.33	12.12	14.24	13.33	14.70	13.13	15.33	12.96	16.59	13.86	17.86	13.42
15					13.86	12.26	14.29	13.33	14.50	13.09	15.22	12.94	16.67	13.87	18.12	13.45
17					13.37	12.13	14.40	13.36	14.91	13.18	15.50	13.00	16.68	13.87	17.86	13.42
19					13.95	12.29	14.51	13.39	15.33	13.27	15.78	13.05	16.69	13.87	17.59	13.38
21					13.71	12.22	14.36	13.35	15.17	13.23	15.62	13.02	16.53	13.85	17.43	13.36
23					13.47	12.15	14.22	13.32	15.01	13.20	15.46	12.99	16.36	13.82	17.27	13.34
25			13.32	12.94	13.34	12.12	14.15	13.30	14.93	13.18	15.38	12.97	16.28	13.81	17.18	13.33
27			13.09	12.82	13.22	12.09	14.07	13.29	14.85	13.16	15.49	13.00	16.13	13.78		
29			12.81	12.55	12.91	12.01	13.75	13.21	14.54	13.10	15.18	12.93	15.81	13.73		
31			12.53	12.28	12.60	11.92	13.43	13.14	14.23	13.03	14.86	12.87	15.50	13.68		
33	10.63	10.42	11.45	11.22	12.28	11.84	13.11	12.84	13.91	12.97	14.55	12.81	15.18	13.63		
35	10.45	10.24	11.21	10.98	11.97	11.73	12.79	12.53	13.60	12.90	14.23	12.75	14.86	13.58		
37	10.32	10.12	11.03	10.81	11.74	11.50	12.48	12.23	13.22	12.82	13.80	12.67	14.38	13.51		
39	10.20	9.99	10.85	10.63	11.51	11.28	12.17	11.93	12.84	12.58	13.36	12.59	13.89	13.43		
41	10.07	9.87	10.67	10.46	11.28	11.05	11.87	11.63	12.45	12.20	12.93	12.51	13.41	13.14		
43	9.94	9.74	10.49	10.28	11.04	10.82	11.56	11.33	12.07	11.83	12.50	12.25	12.92	12.67		
46	9.75	9.56	10.22	10.02	10.70	10.48	11.10	10.88	11.50	11.27	11.85	11.61	12.20	11.95		
50	7.61	7.46	7 70	7.64	8 02	7.86	8 23	8.07	8.40	8 23	8 5/1	9.37	8.68	8.51		

(kW)	H	leating	Mode:	HC				(kW)
		Outo	door		Indoor	air temp	erature	:
DВ		air te	emp.			°CDB		
٧B	ı	°CDB	°CWB	16	18	20	22	24
SHC	Γ	-19.8	-20	8.07	7.97	7.88	7.78	7.68
3.43	ľ	-17.7	-18	8.20	8.13	8.05	7.93	7.80
3.35		-15.7	-16	9.19	9.09	8.98	8.87	8.76
3.46		-13.5	-14	9.52	9.40	9.29	9.18	9.07
3.38		-11.5	-12	10.18	10.04	9.90	9.81	9.71
3.35		-9.5	-10	10.84	10.68	10.52	10.43	10.35
3.38		-7.5	-8	11.50	11.32	11.14	11.06	10.98
3.42		-5.5	-6	12.08	11.89	11.71	11.63	11.55
3.45	ı	-3.0	-4	12.65	12.47	12.28	12.20	12.11
3.42	ſ	-1.0	-2	13.23	13.04	12.85	12.77	12.68
3.38	ı	1.0	0	13.81	13.62	13.42	13.33	13.24
3.36	ı	2.0	1	14.10	13.90	13.71	13.62	13.53
3.34	ı	3.0	2	14.46	14.26	14.07	13.98	13.89
3.33	ı	5.0	4	15.17	14.98	14.78	14.69	14.60
	ı	7.0	6	15.89	15.69	15.50	15.41	15.32
	ı	9.0	8	16.31	16.12	15.93	15.85	15.77
		11.5	10	16.73	16.55	16.36	16.28	16.21
		13.5	12	17.61	17.39	17.18	17.10	17.01
		15.5	14	18.48	18.24	18.00	17.91	17.82
		16.5	16	18.92	18.67	18.41	18.32	18.22

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Model FDT140VSAWTVH

Indoor unit FDT50VH (3 units)

Outdoor unit FDC140VSA-W

								ζ-	,							
Cooling M	lode															(kV
0							Ind	oor air t	empera	iture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
ali terrip.	12 °	CWB	14 °	CWB	16 °	CWB	18 °	CWB	19 °	CWB	20 °	CWB	22 °	CWB	24 °	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							14.99	13.50	15.78	13.37	16.21	13.14	17.06	13.94	17.92	13.43
-10							14.51	13.39	15.27	13.26	15.68	13.03	16.50	13.84	17.32	13.35
-5							14.03	13.27	14.75	13.14	15.43	12.98	16.80	13.89	18.16	13.46
0					11.63	11.40	14.05	13.28	15.26	13.25	15.73	13.04	16.65	13.87	17.58	13.38
5					12.26	11.83	14.16	13.31	15.11	13.22	15.56	13.01	16.44	13.83	17.33	13.35
11					12.79	11.98	14.20	13.32	14.91	13.18	15.44	12.99	16.52	13.85	17.59	13.38
13					13.33	12.12	14.24	13.33	14.70	13.13	15.33	12.96	16.59	13.86	17.86	13.42
15					13.86	12.26	14.29	13.33	14.50	13.09	15.22	12.94	16.67	13.87	18.12	13.45
17					13.37	12.13	14.40	13.36	14.91	13.18	15.50	13.00	16.68	13.87	17.86	13.42
19					13.95	12.29	14.51	13.39	15.33	13.27	15.78	13.05	16.69	13.87	17.59	13.38
21					13.71	12.22	14.36	13.35	15.17	13.23	15.62	13.02	16.53	13.85	17.43	13.36
23					13.47	12.15	14.22	13.32	15.01	13.20	15.46	12.99	16.36	13.82	17.27	13.34
25			13.32	12.94	13.34	12.12	14.15	13.30	14.93	13.18	15.38	12.97	16.28	13.81	17.18	13.33
27			13.09	12.82	13.22	12.09	14.07	13.29	14.85	13.16	15.49	13.00	16.13	13.78		
29			12.81	12.55	12.91	12.01	13.75	13.21	14.54	13.10	15.18	12.93	15.81	13.73		
31			12.53	12.28	12.60	11.92	13.43	13.14	14.23	13.03	14.86	12.87	15.50	13.68		
33	10.63	10.42	11.45	11.22	12.28	11.84	13.11	12.84	13.91	12.97	14.55	12.81	15.18	13.63		
35	10.45	10.24	11.21	10.98	11.97	11.73	12.79	12.53	13.60	12.90	14.23	12.75	14.86	13.58		<u> </u>
37	10.32	10.12	11.03	10.81	11.74	11.50	12.48	12.23	13.22	12.82	13.80	12.67	14.38	13.51		<u> </u>
39	10.20	9.99	10.85	10.63	11.51	11.28	12.17	11.93	12.84	12.58	13.36	12.59	13.89	13.43		<u> </u>
41	10.07	9.87	10.67	10.46	11.28	11.05	11.87	11.63	12.45	12.20	12.93	12.51	13.41	13.14		<u> </u>
43	9.94	9.74	10.49	10.28	11.04	10.82	11.56	11.33	12.07	11.83	12.50	12.25	12.92	12.67		<u> </u>
46	9.75	9.56	10.22	10.02	10.70	10.48	11.10	10.88	11.50	11.27	11.85	11.61	12.20	11.95		Ь_
50	7.61	7.46	7.79	7.64	8.02	7.86	8.23	8.07	8.40	8.23	8.54	8.37	8.68	8.51		1

(kW) Heating Mode:HC (kW)											
		Outo	door		Indoor	air temp	erature	:			
DВ		air te	emp.			°CDB					
VB		°CDB	°CWB	16	18	20	22	24			
SHC		-19.8	-20	8.07	7.97	7.88	7.78	7.68			
3.43		-17.7	-18	8.20	8.13	8.05	7.93	7.80			
3.35	Ш	-15.7	-16	9.19	9.09	8.98	8.87	8.76			
3.46	Ш	-13.5	-14	9.52	9.40	9.29	9.18	9.07			
3.38	Ш	-11.5	-12	10.18	10.04	9.90	9.81	9.71			
3.35	Ш	-9.5	-10	10.84	10.68	10.52	10.43	10.35			
3.38	Ш	-7.5	-8	11.50	11.32	11.14	11.06	10.98			
3.42	Ш	-5.5	-6	12.08	11.89	11.71	11.63	11.55			
3.45	Ш	-3.0	-4	12.65	12.47	12.28	12.20	12.11			
3.42	Ш	-1.0	-2	13.23	13.04	12.85	12.77	12.68			
3.38	Ш	1.0	0	13.81	13.62	13.42	13.33	13.24			
3.36	Ш	2.0	1	14.10	13.90	13.71	13.62	13.53			
3.34	Ш	3.0	2	14.46	14.26	14.07	13.98	13.89			
3.33	Ш	5.0	4	15.17	14.98	14.78	14.69	14.60			
	Ш	7.0	6	15.89	15.69	15.50	15.41	15.32			
	Ш	9.0	8	16.31	16.12	15.93	15.85	15.77			
		11.5	10	16.73	16.55	16.36	16.28	16.21			
	H	13.5	12	17.61	17.39	17.18	17.10	17.01			
	П	15.5	14	18.48 18.24 18.0			17.91	17.82			
	П	16.5	16	18.92	18.67	18.41	18.32	18.22			

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Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed. (Cooling only)
In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

(2) Capacities are based on the following conditions.

Capacities are based on the following condition
Corresponding refrigerant piping length :7.5m
Level difference of Zero.

(3) Symbols are as follows
TC :Total cooling capacity (kW)
SHC :Sensible heat capacity (kW)
HC :Heating capacity (kW)

(2) Ceiling cassette-4 way compact type (FDTC)

(a) Twin type

Cooling Mode

Outdoor unit FDC100VNA-W Model FDTC100VNAWPVH Indoor unit FDTC50VH (2 units)

0.11							Inde	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
un temp.	12 °	CWB	14 °	CWB	16 °0	CWB	18 °	CWB	19 °	CWB	20 °C	CWB	22 °	CWB	24 °	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.02	8.25	11.60	8.31	11.92	8.24	12.55	8.59	13.18	8.41
-10							10.67	8.10	11.23	8.15	11.53	8.08	12.13	8.43	12.73	8.26
-5							10.31	7.95	10.85	7.99	11.35	8.01	12.35	8.52	13.36	8.47
0					8.55	6.91	10.33	7.96	11.22	8.15	11.56	8.10	12.25	8.48	12.93	8.33
5					9.01	7.11	10.41	7.99	11.11	8.10	11.44	8.05	12.09	8.42	12.74	8.27
11					9.41	7.29	10.44	8.01	10.96	8.04	11.36	8.01	12.15	8.44	12.94	8.33
13					9.80	7.46	10.47	8.02	10.81	7.98	11.27	7.98	12.20	8.46	13.13	8.40
15					10.19	7.64	10.50	8.03	10.66	7.92	11.19	7.95	12.26	8.48	13.32	8.46
17					9.83	7.48	10.59	8.07	10.97	8.04	11.40	8.03	12.26	8.48	13.13	8.40
19					10.26	7.67	10.67	8.10	11.27	8.17	11.61	8.11	12.27	8.49	12.94	8.33
21					10.08	7.59	10.56	8.06	11.15	8.12	11.49	8.07	12.15	8.44	12.82	8.29
23					9.90	7.51	10.45	8.01	11.04	8.07	11.37	8.02	12.03	8.40	12.70	8.25
25			9.79	7.91	9.81	7.47	10.40	7.99	10.98	8.05	11.31	8.00	11.97	8.38	12.63	8.23
27			9.62	7.83	9.72	7.43	10.35	7.97	10.92	8.02	11.39	8.03	11.86	8.34		
29			9.42	7.73	9.49	7.32	10.11	7.87	10.69	7.93	11.16	7.94	11.63	8.25		
31			9.21	7.63	9.26	7.22	9.87	7.77	10.46	7.84	10.93	7.85	11.39	8.17		
33	7.82	6.72	8.42	7.25	9.03	7.12	9.64	7.67	10.23	7.74	10.70	7.76	11.16	8.08		
35	7.68	6.66	8.24	7.16	8.80	7.02	9.40	7.57	10.00	7.65	10.46	7.67	10.93	8.00		
37	7.59	6.61	8.11	7.10	8.63	6.94	9.18	7.48	9.72	7.54	10.15	7.54	10.57	7.88		
39	7.50	6.56	7.98	7.04	8.46	6.87	8.95	7.39	9.44	7.43	9.83	7.42	10.22	7.75		
41	7.40	6.52	7.85	6.98	8.29	6.79	8.72	7.30	9.16	7.32	9.51	7.30	9.86	7.63		
43	7.31	6.47	7.72	6.92	8.12	6.72	8.50	7.21	8.88	7.21	9.19	7.18	9.50	7.51		
46	7.17	6.40	7.52	6.82	7.87	6.61	8.16	7.07	8.46	7.05	8.71	7.01	8.97	7.33		
50	5.60	5.49	5.73	5.62	5.90	5.78	6.05	5.93	6.17	6.05	6.28	6.15	6.38	6.26		l

Heating	Mode:	HC				(kW
Out	door		Indoor	air temp	erature	;
air te	emp.			°CDB		
°CDB	°CWB	16	18	20	22	24
-19.8	-20	6.47	6.40	6.32	6.24	6.16
-17.7	-18	6.52	6.46	6.40	6.30	6.20
-15.7	-16	7.37	7.29	7.20	7.11	7.02
-13.5	-14	7.66	7.57	7.47	7.38	7.30
-11.5	-12	8.23	8.12	8.01	7.93	7.85
-9.5	-10	8.80	8.67	8.54	8.47	8.40
-7.5	-8	9.38	9.23	9.08	9.02	8.95
-5.5	-6	9.56	9.41	9.26	9.20	9.14
-3.0	-4	9.74	9.59	9.45	9.38	9.32
-1.0	-2	9.92	9.77	9.63	9.57	9.50
1.0	0	10.10	9.96	9.81	9.75	9.68
2.0	1	10.19	10.05	9.91	9.84	9.77
3.0	2	10.45	10.31	10.17	10.10	10.03
5.0	4	10.96	10.82	10.68	10.62	10.55
7.0	6	11.48	11.34	11.20	11.13	11.07
9.0	8	11.79	11.65	11.51	11.45	11.39
11.5	10	12.09	11.96	11.82	11.77	11.71
13.5	12	12.72	12.57	12.41	12.35	12.29
15.5	14	13.35	13.18	13.01	12.94	12.88
16.5	16	13.67	13.49	13.31	13.24	13.17

(kW)

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Model FDTC100VSAWPVH

Indoor unit FDTC50VH (2 units)

Outdoor unit FDC100VSA-W

Cooling M	1ode															(kW)	1	Heatin	ıg
							Ind	oor air t	empera	ture							П	Ou	ıtd
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB	П	air t	te
an temp.	12 °	CWB	14 °	CWB	16 °	CWB	18 °	CWB	19 °	CWB	20 °	CWB	22 °	CWB	24 °0	CWB	П	°CDB	3
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	П	-19.8	1
-15							11.02	8.25	11.60	8.31	11.92	8.24	12.55	8.59	13.18	8.41	П	-17.7	Ť
-10							10.67	8.10	11.23	8.15	11.53	8.08	12.13	8.43	12.73	8.26	П	-15.7	Ť
-5					1		10.31	7.95	10.85	7.99	11.35	8.01	12.35	8.52	13.36	8.47	П	-13.5	Ŧ
0				i	8.55	6.91	10.33	7.96	11.22	8.15	11.56	8.10	12.25	8.48	12.93	8.33	П	-11.5	T
5					9.01	7.11	10.41	7.99	11.11	8.10	11.44	8.05	12.09	8.42	12.74	8.27	П	-9.5	T
11				i	9.41	7.29	10.44	8.01	10.96	8.04	11.36	8.01	12.15	8.44	12.94	8.33	П	-7.5	T
13					9.80	7.46	10.47	8.02	10.81	7.98	11.27	7.98	12.20	8.46	13.13	8.40	П	-5.5	T
15					10.19	7.64	10.50	8.03	10.66	7.92	11.19	7.95	12.26	8.48	13.32	8.46	П	-3.0	T
17					9.83	7.48	10.59	8.07	10.97	8.04	11.40	8.03	12.26	8.48	13.13	8.40	П	-1.0	T
19					10.26	7.67	10.67	8.10	11.27	8.17	11.61	8.11	12.27	8.49	12.94	8.33	П	1.0	T
21					10.08	7.59	10.56	8.06	11.15	8.12	11.49	8.07	12.15	8.44	12.82	8.29	П	2.0	T
23					9.90	7.51	10.45	8.01	11.04	8.07	11.37	8.02	12.03	8.40	12.70	8.25	П	3.0	T
25			9.79	7.91	9.81	7.47	10.40	7.99	10.98	8.05	11.31	8.00	11.97	8.38	12.63	8.23	П	5.0	T
27			9.62	7.83	9.72	7.43	10.35	7.97	10.92	8.02	11.39	8.03	11.86	8.34			П	7.0	Т
29			9.42	7.73	9.49	7.32	10.11	7.87	10.69	7.93	11.16	7.94	11.63	8.25			П	9.0	Т
31			9.21	7.63	9.26	7.22	9.87	7.77	10.46	7.84	10.93	7.85	11.39	8.17			П	11.5	Т
33	7.82	6.72	8.42	7.25	9.03	7.12	9.64	7.67	10.23	7.74	10.70	7.76	11.16	8.08			П	13.5	Т
35	7.68	6.66	8.24	7.16	8.80	7.02	9.40	7.57	10.00	7.65	10.46	7.67	10.93	8.00			П	15.5	Т
37	7.59	6.61	8.11	7.10	8.63	6.94	9.18	7.48	9.72	7.54	10.15	7.54	10.57	7.88			П	16.5	I
39	7.50	6.56	7.98	7.04	8.46	6.87	8.95	7.39	9.44	7.43	9.83	7.42	10.22	7.75			Ι.		
41	7.40	6.52	7.85	6.98	8.29	6.79	8.72	7.30	9.16	7.32	9.51	7.30	9.86	7.63			1		
43	7.31	6.47	7.72	6.92	8.12	6.72	8.50	7.21	8.88	7.21	9.19	7.18	9.50	7.51			1		

g Mode:HC (kW) Indoor air temperature emp. °CDB °CWB 20 24 -20 6.47 6.40 6.32 6.16 6.24 -18 6.52 6 46 6 40 6.30 6.20 -16 7.37 7.29 7.20 7.11 7.02 -14 7.66 7.57 7.47 7.38 7.30 8.80 8.67 8.47 8.40 9.38 9.23 9.08 9.02 8.95 9.26 9.20 9.92 9.77 9.63 9.50 10.10 9.96 9.81 9.75 9.68 10.19 10.05 10.45 10.31 10.17 10.10 10.96 10.82 10.68 10.62 11.48 11.34 11.20 11.13 11.79 11.65 11.51 11.45 10 12.09 11.96 11.82 11.77 11.71 12.57 | 12.41 | 12.35 | 13.18 | 13.01 | 12.94

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These data show average status

6.40

Depending on the system control, there may be ranges where the operation is not conducted continuously.

8.16 7.07

These data show the case where the operation frequency of a compressor is fixed. (Cooling only)
In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

(2) Capacities are based on the following conditions.

8.46 7.05

8.71 7.01

7.87 6.61

Corresponding refrigerant piping length :7.5m Level difference of Zero.

(3) Symbols are as follows

TC :Total cooling capacity (kW) SHC :Sensible heat capacity (kW) HC :Heating capacity (kW)

Model FDTC125VNAWPVH Indoor unit FDTC60VH (2 units) Outdoor unit FDC125VNA-W

(kW) Indoor air temperature Outdoo 21 °CDB 18 °CDB 23 °CDB 26 °CDB 27 °CDB 28 °CDB 31 °CDB 33 °CDB 12 °CWB 14 °CWB 16 °CWB 18 °CWB 19 °CWB 20 °CWB 22 °CWB 24 °CWB °CDB TC SHC -15 13.77 12.45 14.50 12.44 14.89 12.31 15.68 13.03 16.47 13.73 14.41 12.16 -10 13.34 14.04 12.29 15.16 12.89 15.92 13.27 12.16 13.56 12.14 14.18 12.09 15.44 12.96 16.69 13.92 12.89 10.69 10.48 12.16 14.03 12.29 14.45 12.17 15.31 12.93 16.16 13.47 12.92 13.89 12.24 11.27 10.81 13.01 12.20 15.11 12.87 11 10.99 13.05 13.70 12.18 14.19 12.09 15.18 12.89 16.17 13.48 13 12.25 11.17 13.09 12.22 13.51 12.12 14.09 12.06 15.25 12.91 16.41 13.68 12.74 11.35 13.13 13.32 12.06 13.99 12.03 15.32 12.93 16.65 13.88 15 12.24 12.28 11.18 13.71 12.19 15.33 12.93 16.41 13.68 13.23 11.38 19 13.34 12.30 14.09 12.31 14.51 12.19 15.34 12.94 16.17 13.48 12.82 12.60 11.29 13.94 12.26 14.36 12.14 15.19 12.90 16.02 13.35 23 12 38 11 21 13 07 12 21 13.80 12.21 14.21 12.10 15.04 12.86 15 87 13 23 25 12.24 11.82 12.26 11.17 13.00 12.19 13.72 12.19 14.14 12.08 14.97 12.83 15.79 13.17 12.03 11.74 14.24 12.11 14.83 12.80 27 12.93 12.17 13.65 12.17 12.15 11.13 29 11.77 11.54 11.87 11.03 12.64 12.07 13.36 12.08 13.95 12.02 14.53 12.72 33 9.77 9.57 10.52 10.31 11.29 10.82 12.05 11.81 12.79 11.90 13.37 11.85 13.95 12.56 35 9.60 9.41 10.30 10.10 11.00 10.72 11.75 11.52 12.50 11.81 13.08 11.76 13.66 12.48 37 9.49 9.30 10.14 9.94 10.79 10.57 11.47 11.24 12.15 11.70 12.68 11.64 13.21 12.37 9.97 9.77 11.19 12.77 12.25 39 9.37 9.18 10.58 10.36 10.96 11.80 11.56 12.28 11.53 9.07 9.81 9.61 10.36 10.16 10.91 10.69 11.45 11.89 11.41 12.32 12.08 43 9.14 8.95 9.64 9.45 10.15 9.95 10.62 10.41 11.10 10.87 11.49 11.26 11.88 11.64 46 8.96 8.78 9.40 9.21 9.83 9.63 10.20 10.00 10.57 10.36 10.89 10.67 11.21 10.99 50 7.00 6.86 7.16 7.02 7.37 7.22 7.57 7.41 7.72 7.56 7.85 7.69 7.98 7.82

Heating Mode : HC (kW) Outdoor Indoor air temperature													
Out	door		Indoor	air temp	erature)							
air te	emp.			°CDB									
°CDB	°CWB	16	18	20	22	24							
-19.8	-20	7.60	7.51	7.42	7.33	7.24							
-17.7	-18	7.80	7.73	7.66	7.54	7.42							
-15.7	-16	8.66	8.56	8.46	8.36	8.25							
-13.5	-14	8.95	8.84	8.73	8.63	8.53							
-11.5	-12	9.52	9.39	9.26	9.17	9.08							
-9.5	-10	10.10	9.95	9.80	9.72	9.64							
-7.5	-8	10.67	10.50	10.34	10.26	10.19							
-5.5	-6	11.13	10.96	10.79	10.72	10.64							
-3.0	-4	11.59	11.42	11.25	11.17	11.09							
-1.0	-2	12.05	11.87	11.70	11.62	11.54							
1.0	0	12.50	12.33	12.16	12.07	11.99							
2.0	1	12.73	12.56	12.38	12.30	12.22							
3.0	2	13.06	12.88	12.71	12.62	12.54							
5.0	4	13.70	13.53	13.35	13.27	13.19							
7.0	6	14.35	14.18	14.00	13.92	13.84							
9.0	8	14.73	14.56	14.39	14.31	14.24							
11.5	10	15.11	14.94	14.78	14.71	14.64							
13.5	12	15.90	15.71	15.52	15.44	15.37							
15.5	14	16.69	16.48	16.26	16.18	16.09							
16.5	16	17.09	16.86	16.63	16.54	16.46							

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Model FDTC125VSAWPVH Indoor unit FDTC60VH (2 units) Outdoor unit FDC125VSA-W

Cooling	Mode

46

8.96 8.78

Outdoor							iiiu	oor air t	cilipcia	tuic						
air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
all temp.	12 °C	CWB	14 °	CWB	16 °	CWB	18 °	CWB	19 °	CWB	20 °	CWB	22 °	CWB	24 °	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							13.77	12.45	14.50	12.44	14.89	12.31	15.68	13.03	16.47	13.73
-10							13.34	12.30	14.04	12.29	14.41	12.16	15.16	12.89	15.92	13.27
-5							12.89	12.16	13.56	12.14	14.18	12.09	15.44	12.96	16.69	13.92
0					10.69	10.48	12.92	12.16	14.03	12.29	14.45	12.17	15.31	12.93	16.16	13.47
5					11.27	10.81	13.01	12.20	13.89	12.24	14.30	12.13	15.11	12.87	15.93	13.28
11					11.76	10.99	13.05	12.21	13.70	12.18	14.19	12.09	15.18	12.89	16.17	13.48
13					12.25	11.17	13.09	12.22	13.51	12.12	14.09	12.06	15.25	12.91	16.41	13.68
15					12.74	11.35	13.13	12.24	13.32	12.06	13.99	12.03	15.32	12.93	16.65	13.88
17					12.28	11.18	13.23	12.27	13.71	12.19	14.25	12.11	15.33	12.93	16.41	13.68
19					12.82	11.38	13.34	12.30	14.09	12.31	14.51	12.19	15.34	12.94	16.17	13.48
21					12.60	11.29	13.20	12.26	13.94	12.26	14.36	12.14	15.19	12.90	16.02	13.35
23					12.38	11.21	13.07	12.21	13.80	12.21	14.21	12.10	15.04	12.86	15.87	13.23
25			12.24	11.82	12.26	11.17	13.00	12.19	13.72	12.19	14.14	12.08	14.97	12.83	15.79	13.17
27			12.03	11.74	12.15	11.13	12.93	12.17	13.65	12.17	14.24	12.11	14.83	12.80		
29			11.77		_	11.03	_	_	_		_	12.02	14.53	12.72		
31			11.51		11.58				13.07			11.93		12.64		
33	9.77	9.57	10.52	10.31	11.29	10.82	12.05	11.81	12.79	11.90	13.37	11.85	13.95	12.56		
35	9.60	9.41	10.30		11.00	_			12.50					12.48		
37	9.49	9.30	10.14	9.94	10.79	10.57	11.47	11.24	12.15	11.70	12.68	11.64	13.21	12.37		
39	9.37	9.18	9.97	9.77	_	10.36	_	_	_		_		_	12.25		
41	9.25	9.07	9.81			10.16								12.08		
43	9 14	8 95	9 64	9 45	10 15	9 95	10.62	10 41	11 10	10.87	11 49	11 26	11 88	11 64	I —	

Indoor air temperature

ricating	Mode:	ПС				(kW
Out	door		Indoor	air temp	erature	;
air te	emp.			°CDB		
°CDB	°CWB	16	18	20	22	24
-19.8	-20	7.60	7.51	7.42	7.33	7.24
-17.7	-18	7.80	7.73	7.66	7.54	7.42
-15.7	-16	8.66	8.56	8.46	8.36	8.25
-13.5	-14	8.95	8.84	8.73	8.63	8.53
-11.5	-12	9.52	9.39	9.26	9.17	9.08
-9.5	-10	10.10	9.95	9.80	9.72	9.64
-7.5	-8	10.67	10.50	10.34	10.26	10.19
-5.5	-6	11.13	10.96	10.79	10.72	10.64
-3.0	-4	11.59	11.42	11.25	11.17	11.09
-1.0	-2	12.05	11.87	11.70	11.62	11.54
1.0	0	12.50	12.33	12.16	12.07	11.99
2.0	1	12.73	12.56	12.38	12.30	12.22
3.0	2	13.06	12.88	12.71	12.62	12.54
5.0	4	13.70	13.53	13.35	13.27	13.19
7.0	6	14.35	14.18	14.00	13.92	13.84
9.0	8	14.73	14.56	14.39	14.31	14.24
11.5	10	15.11	14.94	14.78	14.71	14.64
13.5	12	15.90	15.71	15.52	15.44	15.37
15.5	14	16.69	16.48	16.26	16.18	16.09
16.5	16	17.09	16.86	16.63	16.54	16.46

(kW)

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Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously. These data show the case where the operation frequency of a compressor is fixed. (Cooling only)

10.20 10.00 10.57 10.36

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

(2) Capacities are based on the following conditions Corresponding refrigerant piping length: 7.5m

9.40 9.21

7 00 6 86 7 16 7 02 7 37

9.83 9.63

Level difference of Zero.

(3) Symbols are as follows TC :Total cooling capacity (kW) SHC :Sensible heat capacity (kW) HC: Heating capacity (kW)

-130 -

10.89 10.67 11.21 10.99

(b) Triple type

Model FDTC140VNAWTVH Indoor unit FDTC50VH (3 units) Cool Mode

Outdoor unit FDC140VNA-W

0							Ind	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
un tomp.	12 °C	CWB	14 °0	CWB	16 °C	CWB	18 °	CWB	19 °C	CWB	20 °C	CWB	22 °(CWB	24 °	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							14.99	11.72	15.78	11.79	16.21	11.70	17.06	12.24	17.92	12.00
-10							14.51	11.53	15.27	11.59	15.68	11.49	16.50	12.04	17.32	11.81
-5							14.03	11.33	14.75	11.38	15.43	11.40	16.80	12.15	18.16	12.08
0					11.63	9.85	14.05	11.34	15.26	11.58	15.73	11.51	16.65	12.09	17.58	11.89
5					12.26	10.11	14.16	11.38	15.11	11.52	15.56	11.44	16.44	12.02	17.33	11.81
11					12.79	10.35	14.20	11.40	14.91	11.44	15.44	11.40	16.52	12.05	17.59	11.90
13					13.33	10.58	14.24	11.42	14.70	11.36	15.33	11.36	16.59	12.07	17.86	11.98
15					13.86	10.82	14.29	11.43	14.50	11.28	15.22	11.32	16.67	12.10	18.12	12.07
17					13.37	10.60	14.40	11.48	14.91	11.44	15.50	11.42	16.68	12.10	17.86	11.98
19					13.95	10.86	14.51	11.53	15.33	11.61	15.78	11.53	16.69	12.11	17.59	11.90
21					13.71	10.75	14.36	11.47	15.17	11.55	15.62	11.47	16.53	12.05	17.43	11.84
23					13.47	10.64	14.22	11.41	15.01	11.48	15.46	11.41	16.36	11.99	17.27	11.79
25			13.32	11.20	13.34	10.59	14.15	11.38	14.93	11.45	15.38	11.38	16.28	11.96	17.18	11.76
27			13.09	11.09	13.22	10.54	14.07	11.35	14.85	11.42	15.49	11.42	16.13	11.91		
29			12.81	10.95	12.91	10.40	13.75	11.21	14.54	11.30	15.18	11.30	15.81	11.80		
31			12.53	10.82	12.60	10.26	13.43	11.08	14.23	11.17	14.86	11.18	15.50	11.69		
33	10.63	9.54	11.45	10.32	12.28	10.13	13.11	10.95	13.91	11.05	14.55	11.06	15.18	11.58		
35	10.45	9.45	11.21	10.21	11.97	9.99	12.79	10.83	13.60	10.93	14.23	10.94	14.86	11.47		
37	10.32	9.39	11.03	10.12	11.74	9.89	12.48	10.70	13.22	10.78	13.80	10.78	14.38	11.30		
39	10.20	9.33	10.85	10.04	11.51	9.79	12.17	10.58	12.84	10.63	13.36	10.62	13.89	11.14		
41	10.07	9.26	10.67	9.96	11.28	9.69	11.87	10.46	12.45	10.49	12.93	10.46	13.41	10.97		
43	9.94	9.20	10.49	9.88	11.04	9.60	11.56	10.34	12.07	10.34	12.50	10.30	12.92	10.81		
46	9.75	9.11	10.22	9.76	10.70	9.45	11.10	10.16	11.50	10.13	11.85	10.07	12.20	10.57		
50	7.61	7.46	7.79	7.64	8.02	7.86	8.23	8.07	8.40	8.23	8.54	8.37	8.68	8.51		

(kW)				ladaas	-iu t-u-u		(kW
		door		mador		perature	
DB	air te	emp.			°CDB		
VВ	°CDB	°CWB	16	18	20	22	24
SHC	-19.8	-20	8.07	7.97	7.88	7.78	7.68
2.00	-17.7	-18	8.20	8.13	8.05	7.93	7.80
1.81	-15.7	-16	9.19	9.09	8.98	8.87	8.76
2.08	-13.5	-14	9.52	9.40	9.29	9.18	9.07
1.89	-11.5	-12	10.18	10.04	9.90	9.81	9.71
1.81	-9.5	-10	10.84	10.68	10.52	10.43	10.35
1.90	-7.5	-8	11.50	11.32	11.14	11.06	10.98
1.98	-5.5	-6	12.08	11.89	11.71	11.63	11.55
2.07	-3.0	-4	12.65	12.47	12.28	12.20	12.11
1.98	-1.0	-2	13.23	13.04	12.85	12.77	12.68
1.90	1.0	0	13.81	13.62	13.42	13.33	13.24
1.84	2.0	1	14.10	13.90	13.71	13.62	13.53
1.79	3.0	2	14.46	14.26	14.07	13.98	13.89
1.76	5.0	4	15.17	14.98	14.78	14.69	14.60
	7.0	6	15.89	15.69	15.50	15.41	15.32
	9.0	8	16.31	16.12	15.93	15.85	15.77
	11.5	10	16.73	16.55	16.36	16.28	16.21
	13.5	12	17.61	17.39	17.18	17.10	17.01
	15.5	14	18.48	18.24	18.00	17.91	17.82
	16.5	16	18.92	18.67	18.41	18.32	18.22

PJF000Z586

Model FDTC140VSAWTVH

Indoor unit FDTC50VH (3 units)

Outdoor unit FDC140VSA-W

Cooling M	lode								,							(kW
							Ind	oor air t	empera	iture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
ali terrip.	12 °	CWB	14 °	CWB	16 °	CWB	18 °	CWB	19 °	CWB	20 °	CWB	22 °	CWB	24 °(CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15			1				14.99	11.72	15.78	11.79	16.21	11.70	17.06	12.24	17.92	12.00
-10							14.51	11.53	15.27	11.59	15.68	11.49	16.50	12.04	17.32	11.81
-5							14.03	11.33	14.75	11.38	15.43	11.40	16.80	12.15	18.16	12.08
0					11.63	9.85	14.05	11.34	15.26	11.58	15.73	11.51	16.65	12.09	17.58	11.89
5					12.26	10.11	14.16	11.38	15.11	11.52	15.56	11.44	16.44	12.02	17.33	11.81
11					12.79	10.35	14.20	11.40	14.91	11.44	15.44	11.40	16.52	12.05	17.59	11.90
13					13.33	10.58	14.24	11.42	14.70	11.36	15.33	11.36	16.59	12.07	17.86	11.98
15					13.86	10.82	14.29	11.43	14.50	11.28	15.22	11.32	16.67	12.10	18.12	12.07
17					13.37	10.60	14.40	11.48	14.91	11.44	15.50	11.42	16.68	12.10	17.86	11.98
19					13.95	10.86	14.51	11.53	15.33	11.61	15.78	11.53	16.69	12.11	17.59	11.90
21					13.71	10.75	14.36	11.47	15.17	11.55	15.62	11.47	16.53	12.05	17.43	11.84
23					13.47	10.64	14.22	11.41	15.01	11.48	15.46	11.41	16.36	11.99	17.27	11.79
25			13.32	11.20	13.34	10.59	14.15	11.38	14.93	11.45	15.38	11.38	16.28	11.96	17.18	11.76
27			13.09	11.09	13.22	10.54	14.07	11.35	14.85	11.42	15.49	11.42	16.13	11.91		
29			12.81	10.95	12.91	10.40	13.75	11.21	14.54	11.30	15.18	11.30	15.81	11.80		
31			12.53	10.82	12.60	10.26	13.43	11.08	14.23	11.17	14.86	11.18	15.50	11.69		
33	10.63	9.54	11.45	10.32	12.28	10.13	13.11	10.95	13.91	11.05	14.55	11.06	15.18	11.58		
35	10.45	9.45	11.21	10.21	11.97	9.99	12.79	10.83	13.60	10.93	14.23	10.94	14.86	11.47		
37	10.32	9.39	11.03	10.12	11.74	9.89	12.48	10.70	13.22	10.78	13.80	10.78	14.38	11.30		
39	10.20	9.33	10.85	10.04	11.51	9.79	12.17	10.58	12.84	10.63	13.36	10.62	13.89	11.14		
41	10.07	9.26	10.67	9.96	11.28	9.69	11.87	10.46	12.45	10.49	12.93	10.46	13.41	10.97		
43	9.94	9.20	10.49	9.88	11.04	9.60	11.56	10.34	12.07	10.34	12.50	10.30	12.92	10.81		
46	9.75	9.11	10.22	9.76	10.70	9.45	11.10	10.16	11.50	10.13	11.85	10.07	12.20	10.57		

(kW)	ŀ	Heating	Mode:	НС				(kW)
	ſ	Outo	door		Indoor	air temp	erature	;
DB		air te	emp.			°CDB		
VΒ	ı	°CDB	°CWB	16	18	20	22	24
SHC	ı	-19.8	-20	8.07	7.97	7.88	7.78	7.68
2.00	ı	-17.7	-18	8.20	8.13	8.05	7.93	7.80
1.81	ı	-15.7	-16	9.19	9.09	8.98	8.87	8.76
2.08	ı	-13.5	-14	9.52	9.40	9.29	9.18	9.07
1.89		-11.5	-12	10.18	10.04	9.90	9.81	9.71
1.81		-9.5	-10	10.84	10.68	10.52	10.43	10.35
1.90		-7.5	-8	11.50	11.32	11.14	11.06	10.98
1.98		-5.5	-6	12.08	11.89	11.71	11.63	11.55
2.07		-3.0	-4	12.65	12.47	12.28	12.20	12.11
1.98		-1.0	-2	13.23	13.04	12.85	12.77	12.68
1.90	ı	1.0	0	13.81	13.62	13.42	13.33	13.24
1.84	ı	2.0	1	14.10	13.90	13.71	13.62	13.53
1.79	ı	3.0	2	14.46	14.26	14.07	13.98	13.89
1.76	ı	5.0	4	15.17	14.98	14.78	14.69	14.60
	ı	7.0	6	15.89	15.69	15.50	15.41	15.32
		9.0	8	16.31	16.12	15.93	15.85	15.77
		11.5	10	16.73	16.55	16.36	16.28	16.21
		13.5	12	17.61	17.39	17.18	17.10	17.01
		15.5	14	18.48	18.24	18.00	17.91	17.82
		16.5	16	18.92	18.67	18.41	18.32	18.22

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50 7.61 7.46 7.79 7.64 8.02 7.86 8.23 8.07 8.40 8.23 8.54 8.37 8.68 8.51 Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed. (Cooling only)
In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

(2) Capacities are based on the following conditions.

Corresponding refrigerant piping length :7.5m Level difference of Zero.

(3) Symbols are as follows
TC :Total cooling capacity (kW)
SHC :Sensible heat capacity (kW)
HC :Heating capacity (kW)

(kW)

(3) Duct connected-High static pressure type (FDU)

Indoor unit FDU100VH Outdoor unit FDC100VNA-W Model FDU100VNAWVH Cooling Mode

000	1000															(,,,,,,
0.11					_		Inde	oor air t	empera	iture					_	
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
dii tomp.	12 °	CWB	14 °	CWB	16 °0	CWB	18 °	CWB	19 °	CWB	20 °	CWB	22 °	CWB	24 °(CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.02	8.14	11.60	8.06	11.92	7.90	12.55	8.26	13.18	7.90
-10							10.67	8.04	11.23	7.97	11.53	7.81	12.13	8.18	12.73	7.82
-5							10.31	7.95	10.85	7.87	11.35	7.77	12.35	8.22	13.36	7.93
0					8.55	7.00	10.33	7.95	11.22	7.96	11.56	7.82	12.25	8.20	12.93	7.85
5					9.01	7.14	10.41	7.97	11.11	7.93	11.44	7.79	12.09	8.17	12.74	7.82
11					9.41	7.26	10.44	7.98	10.96	7.90	11.36	7.77	12.15	8.18	12.94	7.86
13					9.80	7.38	10.47	7.99	10.81	7.86	11.27	7.75	12.20	8.19	13.13	7.89
15					10.19	7.50	10.50	8.00	10.66	7.82	11.19	7.73	12.26	8.20	13.32	7.92
17					9.83	7.38	10.59	8.02	10.97	7.90	11.40	7.78	12.26	8.20	13.13	7.89
19					10.26	7.52	10.67	8.04	11.27	7.98	11.61	7.83	12.27	8.20	12.94	7.86
21					10.08	7.46	10.56	8.01	11.15	7.95	11.49	7.80	12.15	8.18	12.82	7.84
23					9.90	7.41	10.45	7.98	11.04	7.92	11.37	7.77	12.03	8.16	12.70	7.82
25			9.79	7.94	9.81	7.38	10.40	7.97	10.98	7.90	11.31	7.76	11.97	8.14	12.63	7.81
27			9.62	7.88	9.72	7.35	10.35	7.96	10.92	7.89	11.39	7.78	11.86	8.12		
29			9.42	7.81	9.49	7.28	10.11	7.89	10.69	7.83	11.16	7.72	11.63	8.08		
31			9.21	7.74	9.26	7.21	9.87	7.83	10.46	7.77	10.93	7.67	11.39	8.03		
33	7.82	6.89	8.42	7.47	9.03	7.14	9.64	7.77	10.23	7.71	10.70	7.61	11.16	7.99		
35	7.68	6.84	8.24	7.41	8.80	7.08	9.40	7.71	10.00	7.66	10.46	7.56	10.93	7.94		
37	7.59	6.81	8.11	7.36	8.63	7.03	9.18	7.65	9.72	7.59	10.15	7.49	10.57	7.88		
39	7.50	6.77	7.98	7.32	8.46	6.98	8.95	7.59	9.44	7.52	9.83	7.42	10.22	7.81		
41	7.40	6.74	7.85	7.28	8.29	6.93	8.72	7.54	9.16	7.46	9.51	7.35	9.86	7.75		
43	7.31	6.70	7.72	7.23	8.12	6.88	8.50	7.48	8.88	7.39	9.19	7.28	9.50	7.68		
46	7.17	6.65	7.52	7.17	7.87	6.81	8.16	7.40	8.46	7.30	8.71	7.18	8.97	7.59		
50	5.60	5.49	5.73	5.62	5.90	5.78	6.05	5.93	6.17	6.05	6.28	6.15	6.38	6.26		I

(kW)	Heating	Mode:	НС				(kW)
	Outo	door		Indoor	air temp	erature	:
DB	air te	emp.			°CDB		
NΒ	°CDB	°CWB	16	18	20	22	24
SHC	-19.8	-20	6.47	6.40	6.32	6.24	6.16
7.90	-17.7	-18	6.52	6.46	6.40	6.30	6.20
7.82	-15.7	-16	7.37	7.29	7.20	7.11	7.02
7.93	-13.5	-14	7.66	7.57	7.47	7.38	7.30
7.85	-11.5	-12	8.23	8.12	8.01	7.93	7.85
7.82	-9.5	-10	8.80	8.67	8.54	8.47	8.40
7.86	-7.5	-8	9.38	9.23	9.08	9.02	8.95
7.89	-5.5	-6	9.56	9.41	9.26	9.20	9.14
7.92	-3.0	-4	9.74	9.59	9.45	9.38	9.32
7.89	-1.0	-2	9.92	9.77	9.63	9.57	9.50
7.86	1.0	0	10.10	9.96	9.81	9.75	9.68
7.84	2.0	1	10.19	10.05	9.91	9.84	9.77
7.82	3.0	2	10.45	10.31	10.17	10.10	10.03
7.81	5.0	4	10.96	10.82	10.68	10.62	10.55
	7.0	6	11.48	11.34	11.20	11.13	11.07
	9.0	8	11.79	11.65	11.51	11.45	11.39
	11.5	10	12.09	11.96	11.82	11.77	11.71
	13.5	12	12.72	12.57	12.41	12.35	12.29
	15.5	14	13.35	13.18	13.01	12.94	12.88
	16.5	16	13.67	13.49	13.31	13.24	13.17

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Indoor unit FDU100VH Outdoor unit FDC100VSA-W Model FDU100VSAWVH

OUUIIII IV	loue															(1/44
							Inde	oor air t	empera	iture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
ali terrip.	12 °	CWB	14 °	CWB	16 °C	CWB	18 °	CWB	19 °	CWB	20 °	CWB	22 °(CWB	24 °C	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.02	8.14	11.60	8.06	11.92	7.90	12.55	8.26	13.18	7.90
-10							10.67	8.04	11.23	7.97	11.53	7.81	12.13	8.18	12.73	7.82
-5							10.31	7.95	10.85	7.87	11.35	7.77	12.35	8.22	13.36	7.93
0					8.55	7.00	10.33	7.95	11.22	7.96	11.56	7.82	12.25	8.20	12.93	7.85
5					9.01	7.14	10.41	7.97	11.11	7.93	11.44	7.79	12.09	8.17	12.74	7.82
11					9.41	7.26	10.44	7.98	10.96	7.90	11.36	7.77	12.15	8.18	12.94	7.86
13					9.80	7.38	10.47	7.99	10.81	7.86	11.27	7.75	12.20	8.19	13.13	7.89
15					10.19	7.50	10.50	8.00	10.66	7.82	11.19	7.73	12.26	8.20	13.32	7.92
17					9.83	7.38	10.59	8.02	10.97	7.90	11.40	7.78	12.26	8.20	13.13	7.89
19					10.26	7.52	10.67	8.04	11.27	7.98	11.61	7.83	12.27	8.20	12.94	7.86
21					10.08	7.46	10.56	8.01	11.15	7.95	11.49	7.80	12.15	8.18	12.82	7.84
23					9.90	7.41	10.45	7.98	11.04	7.92	11.37	7.77	12.03	8.16	12.70	7.82
25			9.79	7.94	9.81	7.38	10.40	7.97	10.98	7.90	11.31	7.76	11.97	8.14	12.63	7.81
27			9.62	7.88	9.72	7.35	10.35	7.96	10.92	7.89	11.39	7.78	11.86	8.12		
29			9.42	7.81	9.49	7.28	10.11	7.89	10.69	7.83	11.16	7.72	11.63	8.08		
31			9.21	7.74	9.26	7.21	9.87	7.83	10.46	7.77	10.93	7.67	11.39	8.03		
33	7.82	6.89	8.42	7.47	9.03	7.14	9.64	7.77	10.23	7.71	10.70	7.61	11.16	7.99		
35	7.68	6.84	8.24	7.41	8.80	7.08	9.40	7.71	10.00	7.66	10.46	7.56	10.93	7.94		
37	7.59	6.81	8.11	7.36	8.63	7.03	9.18	7.65	9.72	7.59	10.15	7.49	10.57	7.88		
39	7.50	6.77	7.98	7.32	8.46	6.98	8.95	7.59	9.44	7.52	9.83	7.42	10.22	7.81		
41	7.40	6.74	7.85	7.28	8.29	6.93	8.72	7.54	9.16	7.46	9.51	7.35	9.86	7.75		
43	7.31	6.70	7.72	7.23	8.12	6.88	8.50	7.48	8.88	7.39	9.19	7.28	9.50	7.68		
46	7.17	6.65	7.52	7.17	7.87	6.81	8.16	7.40	8.46	7.30	8.71	7.18	8.97	7.59		
50	5.60	5.49	5.73	5.62	5.90	5.78	6.05	5.93	6.17	6.05	6.28	6.15	6.38	6.26		1

(kW)	Heating	Mode:	HC				(kW)
	Outo	door		Indoor	air temp	erature	:
DB	air te	emp.			°CDB		
VВ	°CDB	°CWB	16	18	20	22	24
SHC	-19.8	-20	6.47	6.40	6.32	6.24	6.16
7.90	-17.7	-18	6.52	6.46	6.40	6.30	6.20
7.82	-15.7	-16	7.37	7.29	7.20	7.11	7.02
7.93	-13.5	-14	7.66	7.57	7.47	7.38	7.30
7.85	-11.5	-12	8.23	8.12	8.01	7.93	7.85
7.82	-9.5	-10	8.80	8.67	8.54	8.47	8.40
7.86	-7.5	-8	9.38	9.23	9.08	9.02	8.95
7.89	-5.5	-6	9.56	9.41	9.26	9.20	9.14
7.92	-3.0	-4	9.74	9.59	9.45	9.38	9.32
7.89	-1.0	-2	9.92	9.77	9.63	9.57	9.50
7.86	1.0	0	10.10	9.96	9.81	9.75	9.68
7.84	2.0	1	10.19	10.05	9.91	9.84	9.77
7.82	3.0	2	10.45	10.31	10.17	10.10	10.03
7.81	5.0	4	10.96	10.82	10.68	10.62	10.55
	7.0	6	11.48	11.34	11.20	11.13	11.07
	9.0	8	11.79	11.65	11.51	11.45	11.39
	11.5	10	12.09	11.96	11.82	11.77	11.71
	13.5	12	12.72	12.57	12.41	12.35	12.29
	15.5	14	13.35	13.18	13.01	12.94	12.88
	16.5	16	13.67	13.49	13.31	13.24	13.17

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Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed. (Cooling only)
In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

(2) Capacities are based on the following conditions.

Corresponding refrigerant piping length :7.5m Level difference of Zero.

Level difference of Zero.

(3) Symbols are as follows
TC: Total cooling capacity (kW)
SHC: Sensible heat capacity (kW)
HC: Heating capacity (kW)

Model FDU125VNAWVH Indoor unit FDU125VH Outdoor unit FDC125VNA-W

Cooling Mo	ode															(kW)
							Inde	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
all terrip.	12 °C	CWB	14 °	CWB	16 °	CWB	18 °	CWB	19 °	CWB	20 °	CWB	22 °(CWB	24 °	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							13.77	11.24	14.50	11.30	14.89	11.21	15.68	11.77	16.47	13.73
-10							13.34	11.06	14.04	11.12	14.41	11.03	15.16	11.59	15.92	13.27
-5							12.89	10.88	13.56	10.93	14.18	10.94	15.44	11.69	16.69	13.92
0					10.69	9.46	12.92	10.89	14.03	11.11	14.45	11.05	15.31	11.64	16.16	13.47
5					11.27	9.70	13.01	10.93	13.89	11.06	14.30	10.99	15.11	11.57	15.93	13.28
11					11.76	9.91	13.05	10.95	13.70	10.98	14.19	10.95	15.18	11.60	16.17	13.48
13					12.25	10.12	13.09	10.96	13.51	10.91	14.09	10.91	15.25	11.62	16.41	13.68
15					12.74	10.34	13.13	10.98	13.32	10.84	13.99	10.87	15.32	11.65	16.65	13.88
17					12.28	10.14	13.23	11.02	13.71	10.99	14.25	10.97	15.33	11.65	16.41	13.68
19					12.82	10.37	13.34	11.06	14.09	11.14	14.51	11.06	15.34	11.65	16.17	13.48
21					12.60	10.28	13.20	11.01	13.94	11.08	14.36	11.01	15.19	11.60	16.02	13.35
23					12.38	10.18	13.07	10.96	13.80	11.02	14.21	10.95	15.04	11.55	15.87	13.23
25			12.24	10.70	12.26	10.13	13.00	10.93	13.72	10.99	14.14	10.93	14.97	11.52	15.79	13.17
27			12.03	10.60	12.15	10.08	12.93	10.90	13.65	10.96	14.24	10.96	14.83	11.48		
29			11.77	10.48	11.87	9.96	12.64	10.78	13.36	10.85	13.95	10.86	14.53	11.38		
31			11.51	10.36	11.58	9.84	12.34	10.67	13.07	10.74	13.66	10.75	14.24	11.28		
33	9.77	9.13	10.52	9.90	11.29	9.71	12.05	10.55	12.79	10.63	13.37	10.64	13.95	11.18		
35	9.60	9.05	10.30	9.80	11.00	9.59	11.75	10.43		10.52	13.08	10.53	13.66	11.08		
37	9.49	8.99	10.14	9.73	10.79	9.50	11.47	10.32		10.39	12.68	10.39	13.21	10.93		
39	9.37	8.94	9.97	9.66	10.58	9.41	11.19	10.21	11.80	10.26	12.28	10.24	12.77	10.78		
41	9.25	8.88	9.81		10.36	9.32	10.91	10.10		10.13	11.89	10.10	12.32	10.63		
43	9.14	8.83	9.64	9.45	10.15	9.23	10.62	9.99	11.10	9.99	11.49	9.96	11.88	10.49		
46	8.96	8.74	9.40	9.21	9.83	9.10	10.20	9.83	10.57	9.80	10.89	9.74	11.21	10.27		
50	7.00	6.86	7.16	7.02	7.37	7.22	7.57	7.41	7.72	7.56	7.85	7.69	7.98	7.82		

Heating	Mode:	HC				(kW)
Out	door		Indoor	air temp	erature	;
air te	emp.			°CDB		
°CDB	°CWB	16	18	20	22	24
-19.8	-20	7.60	7.51	7.42	7.33	7.24
-17.7	-18	7.80	7.73	7.66	7.54	7.42
-15.7	-16	8.66	8.56	8.46	8.36	8.25
-13.5	-14	8.95	8.84	8.73	8.63	8.53
-11.5	-12	9.52	9.39	9.26	9.17	9.08
-9.5	-10	10.10	9.95	9.80	9.72	9.64
-7.5	-8	10.67	10.50	10.34	10.26	10.19
-5.5	-6	11.13	10.96	10.79	10.72	10.64
-3.0	-4	11.59	11.42	11.25	11.17	11.09
-1.0	-2	12.05	11.87	11.70	11.62	11.54
1.0	0	12.50	12.33	12.16	12.07	11.99
2.0	1	12.73	12.56	12.38	12.30	12.22
3.0	2	13.06	12.88	12.71	12.62	12.54
5.0	4	13.70	13.53	13.35	13.27	13.19
7.0	6	14.35	14.18	14.00	13.92	13.84
9.0	8	14.73	14.56	14.39	14.31	14.24
11.5	10	15.11	14.94	14.78	14.71	14.64
13.5	12	15.90	15.71	15.52	15.44	15.37
15.5	14	16.69	16.48	16.26	16.18	16.09
16.5	16	17.09	16.86	16.63	16.54	16.46

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Model FDU125VSAWVH Indoor unit FDU125VH Outdoor unit FDC125VSA-W

Cooling Mode

Cooling Mo	ode															(kW)
Outdoon							Indo	oor air t	empera	ture						
Outdoor air temp.	18 °0	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
all temp.	12 °C	CWB	14 °	CWB	16 °C	CWB	18 °	CWB	19 °C	CWB	20 °C	CWB	22 °	CWB	24 °0	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							13.77	11.24	14.50	11.30	14.89	11.21	15.68	11.77	16.47	13.73
-10							13.34	11.06	14.04	11.12	14.41	11.03	15.16	11.59	15.92	13.27
-5							12.89	10.88	13.56	10.93	14.18	10.94	15.44	11.69	16.69	13.92
0					10.69	9.46	12.92	10.89	14.03	11.11	14.45	11.05	15.31	11.64	16.16	13.47
5					11.27	9.70	13.01	10.93	13.89	11.06	14.30	10.99	15.11	11.57	15.93	13.28
11					11.76	9.91	13.05	10.95	13.70	10.98	14.19	10.95	15.18	11.60	16.17	13.48
13					12.25	10.12	13.09	10.96	13.51	10.91	14.09	10.91	15.25	11.62	16.41	13.68
15					12.74	10.34	13.13	10.98	13.32	10.84	13.99	10.87	15.32	11.65	16.65	13.88
17					12.28	10.14	13.23	11.02	13.71	10.99	14.25	10.97	15.33	11.65	16.41	13.68
19					12.82	10.37	13.34	11.06	14.09	11.14	14.51	11.06	15.34	11.65	16.17	13.48
21					12.60	10.28	13.20	11.01	13.94	11.08	14.36	11.01	15.19	11.60	16.02	13.35
23					12.38	10.18	13.07	10.96	13.80	11.02	14.21	10.95	15.04	11.55	15.87	13.23
25			12.24	10.70	12.26	10.13	13.00	10.93	13.72	10.99	14.14	10.93	14.97	11.52	15.79	13.17
27			12.03	10.60	12.15	10.08	12.93	10.90	13.65	10.96	14.24	10.96	14.83	11.48		
29			11.77	10.48	11.87	9.96	12.64	10.78	13.36	10.85	13.95	10.86	14.53	11.38		
31			11.51	10.36	11.58	9.84	12.34	10.67	13.07	10.74	13.66	10.75	14.24	11.28		
33	9.77	9.13	10.52	9.90	11.29	9.71	12.05	10.55	12.79	10.63	13.37	10.64	13.95	11.18		
35	9.60	9.05	10.30	9.80	11.00	9.59	11.75	10.43	12.50	10.52	13.08	10.53	13.66	11.08		
37	9.49	8.99	10.14	9.73	10.79	9.50	11.47	10.32	12.15	10.39	12.68	10.39	13.21	10.93		
39	9.37	8.94	9.97	9.66	10.58	9.41	11.19	10.21	11.80	10.26	12.28	10.24	12.77	10.78		
41	9.25	8.88	9.81	9.58	10.36	9.32	10.91	10.10	11.45	10.13	11.89	10.10	12.32	10.63		
43	9.14	8.83	9.64	9.45	10.15	9.23	10.62	9.99	11.10	9.99	11.49	9.96	11.88	10.49		
46	8.96	8.74	9.40	9.21	9.83	9.10	10.20	9.83	10.57	9.80	10.89	9.74	11.21	10.27		
50	7.00	6.86	7.16	7.02	7.37	7.22	7.57	7.41	7.72	7.56	7.85	7.69	7.98	7.82		

						(kW)
Outd	oor		Indoor	air temp	erature	
air ter	mp.			°CDB		
°CDB °	°CWB	16	18	20	22	24
-19.8	-20	7.60	7.51	7.42	7.33	7.24
-17.7	-18	7.80	7.73	7.66	7.54	7.42
-15.7	-16	8.66	8.56	8.46	8.36	8.25
-13.5	-14	8.95	8.84	8.73	8.63	8.53
-11.5	-12	9.52	9.39	9.26	9.17	9.08
-9.5	-10	10.10	9.95	9.80	9.72	9.64
-7.5	-8	10.67	10.50	10.34	10.26	10.19
-5.5	-6	11.13	10.96	10.79	10.72	10.64
-3.0	-4	11.59	11.42	11.25	11.17	11.09
-1.0	-2	12.05	11.87	11.70	11.62	11.54
1.0	0	12.50	12.33	12.16	12.07	11.99
2.0	1	12.73	12.56	12.38	12.30	12.22
3.0	2	13.06	12.88	12.71	12.62	12.54
5.0	4	13.70	13.53	13.35	13.27	13.19
7.0	6	14.35	14.18	14.00	13.92	13.84
9.0	8	14.73	14.56	14.39	14.31	14.24
11.5	10	15.11	14.94	14.78	14.71	14.64
13.5	12	15.90	15.71	15.52	15.44	15.37
15.5	14	16.69	16.48	16.26	16.18	16.09
16.5	16	17.09	16.86	16.63	16.54	16.46

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Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously. These data show the case where the operation frequency of a compressor is fixed. (Cooling only)

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

(2) Capacities are based on the following conditions.

Corresponding refrigerant piping length: 7.5m

Level difference of Zero.

(3) Symbols are as follows
TC :Total cooling capacity (kW)
SHC :Sensible heat capacity (kW) HC: Heating capacity (kW)

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(kW)

24 7.68 7.80 8.76 9.07 10.35 10.98 11.55 12.11 12.68 13.24 13.53 13.89 14.60 15.32 15.77 16.21 17.01

16.5 16 18.92 18.67 18.41 18.32 18.22

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Outdoor unit FDC140VNA-W Model FDU140VNAWVH Indoor unit FDU140VH (kW) (kW) Cooling Mod Indoor air temperature Indoor air temperature Outdoor Outdoo 21 °CDB 33 °CDB air temp 18 °CDB 23 °CDB 27 °CDB 28 °CDB 31 °CDB °CDB air temp 12 °CWB 14 °CWB 16 °CWB 18 °CWB 19 °CWB 20 °CWB 22 °CWB 24 °CWB CDB CWB 16 18 20 24 -19.8 8.07 7.88 7.68 °CDB TC TC SHC SHC TC SHC TC SHC TC SHC TC SHC TC SHC -20 7.97 7.78 SHC TC 14.99 11.79 15.78 11.75 16.21 11.58 17.06 12.15 17.92 11.76 -17.7 -18 8.20 8.13 8.05 7.93 7.80 -10 17.32 15.27 11.59 15.68 11.43 16.50 12.00 11.62 9.09 8.98 8.87 8.76 14.51 11.63 -15.7 -16 9.19 14.03 11.48 14.75 11.43 15.43 11.36 16.80 12.08 18.16 11.82 -13.5 -14 9.40 9.29 9.18 9.07 9.52 0 11.63 10.06 14.05 11.49 15.26 11.59 15.73 11.44 10.18 10.04 9.90 9.81 12.04 5 12.26 10.27 14.16 11.52 15.11 11.54 15.56 11.39 16.44 11.99 17.33 11.63 -9.5 10.84 10.68 10.52 10.43 10.35 11 12.79 10.46 14.20 11.53 14.91 11.48 15.44 11.36 10.98 16.52 12.01 17.59 11.69 -7.5 -8 11.50 11.32 11.14 11.06 13 13.33 10.64 14.24 11.55 14.70 11.42 15.33 11.33 16.59 12.03 11.75 12.08 11.63 15.22 11.29 16.67 12.05 15 13.86 10.83 14.29 11.56 14.50 11.36 11.81 -3.0 12.65 12.47 12.28 12.11 17 13.37 10.66 14.40 11.60 14.91 11.48 15.50 11.38 16.68 12.05 17.86 11.75 -1.0 13.23 13.04 12.85 12.77 12.68 19 1.0 0 13.95 10.86 14.51 11.63 15.33 11.61 15.78 11.46 16.69 12.05 17.59 13.81 13.62 13.42 13.33 13.24 11.69 13.71 10.78 14.36 11.59 15.17 11.56 15.62 11.41 1 14.10 13.90 13.71 13.62 13.53 21 16.53 12.01 17.43 2.0 23 13.47 10.69 14.22 11.54 15.01 11.51 15.46 11.36 16.36 11.97 17.27 11.61 3.0 14.46 14.26 14.07 13.98 13.89 25 27 13.32 11.36 13.34 10.65 14.15 11.52 14.93 11.49 15.38 11.34 16.28 11.95 17.18 11.59 5.0 4 15.17 14.98 14.78 14.69 14.60 13.09 11.26 13.22 10.61 14.07 11.49 14.85 11.46 15.49 11.37 16.13 11.91 15.50 29 12.81 11.15 12.91 10.50 13.75 11.39 14.54 11.37 15.18 11.28 15.81 11.83 9.0 8 16.31 16.12 15.93 15.85 15.77 31 12.53 11.05 12.60 10.39 13.43 11.29 14.23 11.27 14.86 11.19 15.50 11.75 11.5 10 16.73 16.55 16.36 16.28 16.21 17.61 17.39 17.18 17.10 17.01 33 10.63 9.79 11.45 10.63 12.28 10.28 13.11 11.19 13.91 11.18 14.55 11.10 15.18 11.67 13.5 12 35 10.45 9.72 11.21 10.54 11.97 10.17 12.79 11.09 13.60 11.09 14.23 11.01 14.86 11.59 14 18.48 18.24 18.00 17.91 17.82 37 10.32 9.66 11.03 10.47 11.74 10.09 12.48 11.00 13.22 10.98 13.80 10.89 14.38 11.48 16 18.92 18.67 18.41 18.32 18.22 39 10.20 9.61 10.85 10.41 11.51 10.01 12.17 10.90 12.84 10.87 13.36 10.77 13.89 11.36 41 10.34 11.87 10.81 12.45 10.76 10.07 9.56 10.67 11.28 9.93 12.93 10.66 13.41 11.24 43 9.94 9.51 10.49 10.27 11.04 9.86 11.56 10.72 12.07 10.65 12.50 10.54 12.92 11.13 10.22 46 9.75 9.43 10.02 10.70 9.74 11.10 10.58 11.50 10.49 11.85 10.37 12.20 10.96 PJG000Z649 💪 7.79 7.64 8.02 7.86 8.23 8.07 8.40 8.23 8.54 8.37 8.68 8.51

ooling N	lode															(kW)	Heating	Mode:	HC				
0					_		Inde	oor air t	empera	ture	_		_				Outo	door		Indoor	air temp	erature	,
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB	air te	emp.			°CDB		
	12 °C	CWB	14 °	CWB	16 °	CWB	18 °	CWB	19 °	CWB	20 °	CWB	22 °C	CWB	24 °C	CWB	°CDB	°CWB	16	18	20	22	I
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	-19.8	-20	8.07	7.97	7.88	7.78	Γ
-15							14.99	11.79	15.78	11.75	16.21	11.58	17.06	12.15	17.92	11.76	-17.7	-18	8.20	8.13	8.05	7.93	Γ
-10							14.51	11.63	15.27	11.59	15.68	11.43	16.50	12.00	17.32	11.62	-15.7	-16	9.19	9.09	8.98	8.87	I
-5							14.03	11.48	14.75	11.43	15.43	11.36	16.80	12.08	18.16	11.82	-13.5	-14	9.52	9.40	9.29	9.18	L
0					11.63	10.06	14.05	11.49	15.26	11.59	15.73	11.44	16.65	12.04	17.58	11.68	-11.5	-12	10.18	10.04	9.90	9.81	ļ
5					12.26	10.27	14.16	11.52	15.11	11.54	15.56	11.39	16.44	11.99	17.33	11.63	-9.5	-10	10.84	10.68	10.52	10.43	ļ
11					12.79	10.46	14.20	11.53	14.91	11.48	15.44	11.36	16.52	12.01	17.59	11.69	-7.5	-8	11.50	11.32	11.14	11.06	Ŀ
13					13.33	10.64	14.24	11.55	14.70	11.42	15.33	11.33	16.59	12.03	17.86	11.75	-5.5	-6	12.08	11.89	11.71	11.63	ļ
15					13.86	10.83	14.29	11.56	14.50	11.36	15.22	11.29	16.67	12.05	18.12	11.81	-3.0	-4	12.65	12.47	12.28	12.20	ļ
17					13.37	10.66	14.40	11.60	14.91	11.48	15.50	11.38	16.68	12.05	17.86	11.75	-1.0	-2	13.23	13.04	12.85	12.77	ļ
19					13.95	10.86	14.51	11.63	15.33	11.61	15.78	11.46	16.69	12.05	17.59	11.69	1.0	0	13.81	13.62	13.42	13.33	ļ
21					13.71	10.78	14.36	11.59	15.17	11.56	15.62	11.41	16.53	12.01	17.43	11.65	2.0	1	14.10	13.90	13.71	13.62	ļ
23					13.47	10.69	14.22	11.54	15.01	11.51	15.46	11.36	16.36	11.97	17.27	11.61	3.0	2	14.46	14.26	14.07	13.98	Ļ
25			13.32	11.36	13.34	10.65	14.15	11.52	14.93	11.49	15.38	11.34	16.28	11.95	17.18	11.59	5.0	4	15.17	14.98	14.78	14.69	Ļ
27			13.09	11.26	13.22	10.61	14.07	11.49	14.85	11.46	15.49	11.37	16.13	11.91			7.0	6	15.89	15.69	15.50	15.41	ļ
29			12.81	11.15	12.91	10.50	13.75	11.39	14.54	11.37	15.18	11.28	15.81	11.83			9.0	8	16.31	16.12	15.93	15.85	ļ
31			12.53	11.05	12.60	10.39	13.43	11.29	14.23	11.27	14.86	11.19	15.50	11.75			11.5	10	16.73	16.55	16.36	16.28	ļ
33	10.63	9.79	11.45	10.63	12.28	10.28	13.11	11.19	13.91	11.18	14.55	11.10	15.18	11.67			13.5	12	17.61	17.39	17.18	17.10	Ł
35	10.45	9.72	11.21	10.54	11.97	10.17	12.79	11.09	13.60	11.09	14.23	11.01	14.86	11.59			15.5	14	18.48	18.24	18.00	17.91	T,

13.80 10.89 14.38 11.48

12.50 10.54 12.92 11.13

8.54 8.37 8.68 8.51

13.89 11.36

13.41 11.24

12.20 10.96

13.36 10.77

12.93 10.66

11.85 10.37

Notes(1 These data show average status

10.22 10.02

10.32 9.66 11.03

10.20 9.61 10.85 10.41

10.07 9.56 10.67

9.75 9.43

7.61 7.46

37

39

41

43

46

50

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed. (Cooling only)

12.17 10.90

11.87 10.81

11.56 10.72

11.10 10.58

10.47 11.74 10.09 12.48 11.00

9.86

7.79 7.64 8.02 7.86 8.23 8.07 8.40 8.23

11.51 10.01

10.70 9.74

In the heating mode in which the outside air temperature is 0° CDB or less, the compressor operates at maximum frequency. Capacities are based on the following conditions.

13.22 10.98

12.84 10.87

12.45 10.76

12.07 10.65

11.50 10.49

10.34 11.28 9.93

Corresponding refrigerant piping length :7.5m Level difference of Zero.

(3) Symbols are as follows

TC :Total cooling capacity (kW) SHC :Sensible heat capacity (kW) HC :Heating capacity (kW)

(4) Duct connected-Low / Middle static pressure type (FDUM) (a) Single type

Model FDUM100VNAWVH Indoor unit FDUM100VH Outdoor unit FDC100VNA-W

Cooling M	lode															(kW
0.11							Inde	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
all tomp.	12 °	CWB	14 °	CWB	16 °	CWB	18 °	CWB	19 °	CWB	20 °C	CWB	22 °	CWB	24 °(CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.02	8.14	11.60	8.06	11.92	7.90	12.55	8.26	13.18	7.90
-10							10.67	8.04	11.23	7.97	11.53	7.81	12.13	8.18	12.73	7.82
-5							10.31	7.95	10.85	7.87	11.35	7.77	12.35	8.22	13.36	7.93
0					8.55	7.00	10.33	7.95	11.22	7.96	11.56	7.82	12.25	8.20	12.93	7.85
5					9.01	7.14	10.41	7.97	11.11	7.93	11.44	7.79	12.09	8.17	12.74	7.82
11					9.41	7.26	10.44	7.98	10.96	7.90	11.36	7.77	12.15	8.18	12.94	7.86
13					9.80	7.38	10.47	7.99	10.81	7.86	11.27	7.75	12.20	8.19	13.13	7.89
15					10.19	7.50	10.50	8.00	10.66	7.82	11.19	7.73	12.26	8.20	13.32	7.92
17					9.83	7.38	10.59	8.02	10.97	7.90	11.40	7.78	12.26	8.20	13.13	7.89
19					10.26	7.52	10.67	8.04	11.27	7.98	11.61	7.83	12.27	8.20	12.94	7.86
21					10.08	7.46	10.56	8.01	11.15	7.95	11.49	7.80	12.15	8.18	12.82	7.84
23					9.90	7.41	10.45	7.98	11.04	7.92	11.37	7.77	12.03	8.16	12.70	7.82
25			9.79	7.94	9.81	7.38	10.40	7.97	10.98	7.90	11.31	7.76	11.97	8.14	12.63	7.81
27			9.62	7.88	9.72	7.35	10.35	7.96	10.92	7.89	11.39	7.78	11.86	8.12		
29			9.42	7.81	9.49	7.28	10.11	7.89	10.69	7.83	11.16	7.72	11.63	8.08		
31			9.21	7.74	9.26	7.21	9.87	7.83	10.46	7.77	10.93	7.67	11.39	8.03		
33	7.82	6.89	8.42	7.47	9.03	7.14	9.64	7.77	10.23	7.71	10.70	7.61	11.16	7.99		
35	7.68	6.84	8.24	7.41	8.80	7.08	9.40	7.71	10.00	7.66	10.46	7.56	10.93	7.94		
37	7.59	6.81	8.11	7.36	8.63	7.03	9.18	7.65	9.72	7.59	10.15	7.49	10.57	7.88		
39	7.50	6.77	7.98	7.32	8.46	6.98	8.95	7.59	9.44	7.52	9.83	7.42	10.22	7.81		
41	7.40	6.74	7.85	7.28	8.29	6.93	8.72	7.54	9.16	7.46	9.51	7.35	9.86	7.75		
43	7.31	6.70	7.72	7.23	8.12	6.88	8.50	7.48	8.88	7.39	9.19	7.28	9.50	7.68		
46	7.17	6.65	7.52	7.17	7.87	6.81	8.16	7.40	8.46	7.30	8.71	7.18	8.97	7.59		
50	5.60	5.49	5.73	5.62	5.90	5.78	6.05	5.93	6.17	6.05	6.28	6.15	6.38	6.26		1

(kW))	Heating	Mode:	НС				(kW)
	Ш	Out	door		Indoor	air temp	erature	:
DB	Ш	air te	emp.			°CDB		
٧B	Ш	°CDB	°CWB	16	18	20	22	24
SHC	Ш	-19.8	-20	6.47	6.40	6.32	6.24	6.16
7.90	П	-17.7	-18	6.52	6.46	6.40	6.30	6.20
7.82	П	-15.7	-16	7.37	7.29	7.20	7.11	7.02
7.93	П	-13.5	-14	7.66	7.57	7.47	7.38	7.30
7.85	П	-11.5	-12	8.23	8.12	8.01	7.93	7.85
7.82	П	-9.5	-10	8.80	8.67	8.54	8.47	8.40
7.86	П	-7.5	-8	9.38	9.23	9.08	9.02	8.95
7.89	П	-5.5	-6	9.56	9.41	9.26	9.20	9.14
7.92	П	-3.0	-4	9.74	9.59	9.45	9.38	9.32
7.89	П	-1.0	-2	9.92	9.77	9.63	9.57	9.50
7.86	П	1.0	0	10.10	9.96	9.81	9.75	9.68
7.84	П	2.0	1	10.19	10.05	9.91	9.84	9.77
7.82	П	3.0	2	10.45	10.31	10.17	10.10	10.03
7.81	П	5.0	4	10.96	10.82	10.68	10.62	10.55
	П	7.0	6	11.48	11.34	11.20	11.13	11.07
	П	9.0	8	11.79	11.65	11.51	11.45	11.39
	П	11.5	10	12.09	11.96	11.82	11.77	11.71
	Ш	13.5	12	12.72	12.57	12.41	12.35	12.29
	Ш	15.5	14	13.35	13.18	13.01	12.94	12.88
	Ш	16.5	16	13.67	13.49	13.31	13.24	13.17
	ι'							

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Model FDUM100VSAWVH

Cooling Mode

Indoor unit FDUM100VH

Outdoor unit FDC100VSA-W

(kW)	Heating	Mode:	НС				(kW)
	Outo	door		Indoor	air temp	erature	;
DВ	air te	emp.			°CDB		
VВ	°CDB	°CWB	16	18	20	22	24
SHC	-19.8	-20	6.47	6.40	6.32	6.24	6.16
7.90	-17.7	-18	6.52	6.46	6.40	6.30	6.20
7.82	-15.7	-16	7.37	7.29	7.20	7.11	7.02
7.93	-13.5	-14	7.66	7.57	7.47	7.38	7.30
7.85	-11.5	-12	8.23	8.12	8.01	7.93	7.85
7.82	-9.5	-10	8.80	8.67	8.54	8.47	8.40
7.86	-7.5	-8	9.38	9.23	9.08	9.02	8.95
7.89	-5.5	-6	9.56	9.41	9.26	9.20	9.14
7.92	-3.0	-4	9.74	9.59	9.45	9.38	9.32
7.89	-1.0	-2	9.92	9.77	9.63	9.57	9.50
7.86	1.0	0	10.10	9.96	9.81	9.75	9.68
7.84	2.0	1	10.19	10.05	9.91	9.84	9.77
7.82	3.0	2	10.45	10.31	10.17	10.10	10.03
7.81	5.0	4	10.96	10.82	10.68	10.62	10.55
	7.0	6	11.48	11.34	11.20	11.13	11.07
	9.0	8	11.79	11.65	11.51	11.45	11.39
	11.5	10	12.09	11.96	11.82	11.77	11.71
	13.5	12	12.72	12.57	12.41	12.35	12.29
	15.5	14	13.35	13.18	13.01	12.94	12.88
	16.5	16	13.67	13.49	13.31	13.24	13.17

							Inde	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
an temp.	12 °C	CWB	14 °	CWB	16 °0	CWB	18 °	CWB	19 °C	CWB	20 °C	CWB	22 °	CWB	24 °0	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.02	8.14	11.60	8.06	11.92	7.90	12.55	8.26	13.18	7.90
-10							10.67	8.04	11.23	7.97	11.53	7.81	12.13	8.18	12.73	7.82
-5							10.31	7.95	10.85	7.87	11.35	7.77	12.35	8.22	13.36	7.93
0					8.55	7.00	10.33	7.95	11.22	7.96	11.56	7.82	12.25	8.20	12.93	7.85
5					9.01	7.14	10.41	7.97	11.11	7.93	11.44	7.79	12.09	8.17	12.74	7.82
11					9.41	7.26	10.44	7.98	10.96	7.90	11.36	7.77	12.15	8.18	12.94	7.86
13					9.80	7.38	10.47	7.99	10.81	7.86	11.27	7.75	12.20	8.19	13.13	7.89
15					10.19	7.50	10.50	8.00	10.66	7.82	11.19	7.73	12.26	8.20	13.32	7.92
17					9.83	7.38	10.59	8.02	10.97	7.90	11.40	7.78	12.26	8.20	13.13	7.89
19					10.26	7.52	10.67	8.04	11.27	7.98	11.61	7.83	12.27	8.20	12.94	7.86
21					10.08	7.46	10.56	8.01	11.15	7.95	11.49	7.80	12.15	8.18	12.82	7.84
23					9.90	7.41	10.45	7.98	11.04	7.92	11.37	7.77	12.03	8.16	12.70	7.82
25			9.79	7.94	9.81	7.38	10.40	7.97	10.98	7.90	11.31	7.76	11.97	8.14	12.63	7.81
27			9.62	7.88	9.72	7.35	10.35	7.96	10.92	7.89	11.39	7.78	11.86	8.12		
29			9.42	7.81	9.49	7.28	10.11	7.89	10.69	7.83	11.16	7.72	11.63	8.08		
31			9.21	7.74	9.26	7.21	9.87	7.83	10.46	7.77	10.93	7.67	11.39	8.03		
33	7.82	6.89	8.42	7.47	9.03	7.14	9.64	7.77	10.23	7.71	10.70	7.61	11.16	7.99		
35	7.68	6.84	8.24	7.41	8.80	7.08	9.40	7.71	10.00	7.66	10.46	7.56	10.93	7.94		
37	7.59	6.81	8.11	7.36	8.63	7.03	9.18	7.65	9.72	7.59	10.15	7.49	10.57	7.88		
39	7.50	6.77	7.98	7.32	8.46	6.98	8.95	7.59	9.44	7.52	9.83	7.42	10.22	7.81		
41	7.40	6.74	7.85	7.28	8.29	6.93	8.72	7.54	9.16	7.46	9.51	7.35	9.86	7.75		
43	7.31	6.70	7.72	7.23	8.12	6.88	8.50	7.48	8.88	7.39	9.19	7.28	9.50	7.68		
46	7.17	6.65	7.52	7.17	7.87	6.81	8.16	7.40	8.46	7.30	8.71	7.18	8.97	7.59		
50	5.60	5.49	5.73	5.62	5.90	5.78	6.05	5.93	6.17	6.05	6.28	6.15	6.38	6.26		

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Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed. (Cooling only)
In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

(2) Capacities are based on the following conditions.

Corresponding refrigerant piping length :7.5m Level difference of Zero.

Level difference of Zero.

(3) Symbols are as follows
TC: Total cooling capacity (kW)
SHC: Sensible heat capacity (kW)
HC: Heating capacity (kW)

Model FDUM125VNAWVH Outdoor unit FDC125VNA-W Indoor unit FDUM125VH

Cooling Mode (kW) Indoor air temperature Outdoo 21 °CDB 18 °CDB 23 °CDB 26 °CDB 27 °CDB 28 °CDB 31 °CDB 33 °CDB air temp 12 °CWB 14 °CWB 16 °CWB 18 °CWB 19 °CWB 20 °CWB 22 °CWB 24 °CWB °CDB TC SHC -15 13.77 11.24 14.50 11.30 14.89 11.21 15.68 11.77 16.47 13.73 13.34 11.06 14.04 11.12 14.41 11.03 15.16 11.59 -10 15.92 12.89 10.88 13.56 10.93 14.18 10.94 15.44 11.69 16.69 13.92 0 10.69 9.46 12.92 10.89 14.03 11.11 14.45 11.05 15.31 11.64 16.16 13.47 9.70 13.01 13.89 11.06 14.30 10.99 15.11 11.57 11 11.76 9.91 13.05 10.95 13.70 10.98 14.19 10.95 15.18 11.60 16.17 13.48 13 12.25 10.12 13.09 10.96 13.51 10.91 14.09 10.91 15.25 11.62 16.41 13.68 12.74 10.34 13.13 10.98 13.32 10.84 13.99 10.87 15.32 11.65 13.88 15 16.65 12.28 10.14 13.23 11.02 13.71 10.99 14.25 10.97 15.33 11.65 13.68 19 13.34 11.06 14.09 11.14 14.51 11.06 15.34 11.65 12.82 10.37 10.28 13.20 11.01 13.94 11.08 14.36 11.01 15.19 11.60 16.02 13.35 23 12 38 10.18 13.07 10.96 13.80 11.02 14.21 10.95 15.04 11.55 15.87 13 23 25 12.24 10.70 12.26 10.13 13.00 10.93 13.72 10.99 14.14 10.93 14.97 11.52 15.79 13.17 27 12.15 10.08 13.65 10.96 14.24 10.96 14.83 11.48 12.03 10.60 12.93 10.90 29 11.77 10.48 11.87 9.96 12.64 10.78 13.36 10.85 13.95 10.86 14.53 11.38 13.66 10.75 14.24 11.28 9.77 9.13 10.52 33 9.90 11.29 9.71 12.05 10.55 12.79 10.63 13.37 10.64 13.95 11.18 9.60 9.05 10.30 9.80 11.00 9.59 11.75 10.43 12.50 10.52 13.08 10.53 13.66 11.08 37 9.49 8.99 10.14 9.73 10.79 9.50 11.47 10.32 12.15 10.39 12.68 10.39 13.21 10.93 9.37 8.94 9.97 11.80 10.26 12.28 10.24 12.77 10.78 39 9.66 10.58 9.41 11.19 10.21

11.45 10.13

11.10 9.99

11.89 10.10 12.32 10.63

11.49 9.96 11.88 10.49

10.57 9.80 10.89 9.74 11.21 10.27

7 72 | 7 56 | 7 85 | 7 69 | 7 98 | 7 82

Heating	Mode :	HC				(kW)
Out	door		Indoor	air temp	erature)
air te	emp.			°CDB		
°CDB	$^{\circ}\text{CWB}$	16	18	20	22	24
-19.8	-20	7.60	7.51	7.42	7.33	7.24
-17.7	-18	7.80	7.73	7.66	7.54	7.42
-15.7	-16	8.66	8.56	8.46	8.36	8.25
-13.5	-14	8.95	8.84	8.73	8.63	8.53
-11.5	-12	9.52	9.39	9.26	9.17	9.08
-9.5	-10	10.10	9.95	9.80	9.72	9.64
-7.5	-8	10.67	10.50	10.34	10.26	10.19
-5.5	-6	11.13	10.96	10.79	10.72	10.64
-3.0	-4	11.59	11.42	11.25	11.17	11.09
-1.0	-2	12.05	11.87	11.70	11.62	11.54
1.0	0	12.50	12.33	12.16	12.07	11.99
2.0	1	12.73	12.56	12.38	12.30	12.22
3.0	2	13.06	12.88	12.71	12.62	12.54
5.0	4	13.70	13.53	13.35	13.27	13.19
7.0	6	14.35	14.18	14.00	13.92	13.84
9.0	8	14.73	14.56	14.39	14.31	14.24
11.5	10	15.11	14.94	14.78	14.71	14.64
13.5	12	15.90	15.71	15.52	15.44	15.37
15.5	14	16.69	16.48	16.26	16.18	16.09
16.5	16	17.09	16.86	16.63	16.54	16.46

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Model FDUM125VSAWVH Indoor unit FDUM125VH Outdoor unit FDC125VSA-W

10.62

9.99

9.32 10.91 10.10

7 02 | 7 37 | 7 22 | 7 57 | 7 41

Cooling Mo	de															(kW)
0							Indo	oor air t	empera	ture						
Outdoor air temp.	18 °C	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
all terrip.	12 °C	CWB	14 °(CWB	16 °	CWB	18 °	CWB	19 °	CWB	20 °	CWB	22 °	CWB	24 °	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							13.77	11.24	14.50	11.30	14.89	11.21	15.68	11.77	16.47	13.73
-10							13.34	11.06	14.04	11.12	14.41	11.03	15.16	11.59	15.92	13.27
-5							12.89	10.88	13.56	10.93	14.18	10.94	15.44	11.69	16.69	13.92
0					10.69	9.46	12.92	10.89	14.03	11.11	14.45	11.05	15.31	11.64	16.16	13.47
5					11.27	9.70	13.01	10.93	13.89	11.06	14.30	10.99	15.11	11.57	15.93	13.28
11					11.76	9.91	13.05	10.95	13.70	10.98	14.19	10.95	15.18	11.60	16.17	13.48
13					12.25	10.12	13.09	10.96	13.51	10.91	14.09	10.91	15.25	11.62	16.41	13.68
15					12.74	10.34	13.13	10.98	13.32	10.84	13.99	10.87	15.32	11.65	16.65	13.88
17					12.28	10.14	13.23	11.02	13.71	10.99	14.25	10.97	15.33	11.65	16.41	13.68
19					12.82	10.37	13.34	11.06	14.09	11.14	14.51	11.06	15.34	11.65	16.17	13.48
21					12.60	10.28	13.20	11.01	13.94	11.08	14.36	11.01	15.19	11.60	16.02	13.35
23					12.38	10.18	13.07	10.96	13.80	11.02	14.21	10.95	15.04	11.55	15.87	13.23
25			12.24	10.70	12.26	10.13	13.00	10.93	_	10.99	14.14	10.93	14.97	11.52	15.79	13.17
27			12.03	10.60	12.15	10.08	12.93	10.90	13.65	10.96	14.24	10.96	14.83	11.48		
29			11.77	10.48	11.87	9.96	12.64	10.78	13.36	10.85	13.95	10.86	14.53	11.38		
31			11.51	10.36	11.58	9.84	12.34	10.67	13.07	10.74	13.66	10.75	14.24	11.28		
33	9.77	9.13	10.52	9.90	11.29	9.71	12.05	10.55		10.63	13.37	10.64	13.95	11.18		
35	9.60	9.05	10.30	9.80	11.00	9.59	11.75	10.43	12.50	10.52	13.08	10.53	13.66	11.08		
37	9.49	8.99	10.14	9.73	10.79	9.50	11.47	10.32		10.39	12.68	10.39	13.21	10.93		
39	9.37	8.94	9.97	9.66	10.58	9.41	11.19	10.21	11.80	10.26	12.28	10.24	12.77	10.78		
41	9.25	8.88	9.81	9.58	10.36	9.32	10.91	10.10	11.45	10.13	11.89	10.10	12.32	10.63		
43	9.14	8.83	9.64	9.45	10.15	9.23	10.62	9.99	11.10	9.99	11.49	9.96	11.88	10.49		
46	8.96	8.74	9.40	9.21	9.83	9.10	10.20	9.83	10.57	9.80	10.89	9.74	11.21	10.27		
50	7.00	6.86	7.16	7.02	7.37	7.22	7.57	7.41	7.72	7.56	7.85	7.69	7.98	7.82		

Heating	Mode :	HC				(kW)
Outo	door		Indoor	air temp	erature	:
air te	emp.			°CDB		
°CDB	°CWB	16	18	20	22	24
-19.8	-20	7.60	7.51	7.42	7.33	7.24
-17.7	-18	7.80	7.73	7.66	7.54	7.42
-15.7	-16	8.66	8.56	8.46	8.36	8.25
-13.5	-14	8.95	8.84	8.73	8.63	8.53
-11.5	-12	9.52	9.39	9.26	9.17	9.08
-9.5	-10	10.10	9.95	9.80	9.72	9.64
-7.5	-8	10.67	10.50	10.34	10.26	10.19
-5.5	-6	11.13	10.96	10.79	10.72	10.64
-3.0	-4	11.59	11.42	11.25	11.17	11.09
-1.0	-2	12.05	11.87	11.70	11.62	11.54
1.0	0	12.50	12.33	12.16	12.07	11.99
2.0	1	12.73	12.56	12.38	12.30	12.22
3.0	2	13.06	12.88	12.71	12.62	12.54
5.0	4	13.70	13.53	13.35	13.27	13.19
7.0	6	14.35	14.18	14.00	13.92	13.84
9.0	8	14.73	14.56	14.39	14.31	14.24
11.5	10	15.11	14.94	14.78	14.71	14.64
13.5	12	15.90	15.71	15.52	15.44	15.37
15.5	14	16.69	16.48	16.26	16.18	16.09
16.5	16	17.09	16.86	16.63	16.54	16.46

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Notes(1) These data show average status.

9.25 8.88 9.81

9.14 8.83

8.96 8.74

7 0 0 6 86 7 16

43

46

50

9.58

9.45 10.15

9.64

9.40 9.21 9.83 9.10 10.20 9.83

Depending on the system control, there may be ranges where the operation is not conducted continuously. These data show the case where the operation frequency of a compressor is fixed. (Cooling only)

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

(2) Capacities are based on the following conditions Corresponding refrigerant piping length: 7.5m

Level difference of Zero.

(3) Symbols are as follows

TC :Total cooling capacity (kW) SHC :Sensible heat capacity (kW) HC: Heating capacity (kW)

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Outdoor unit FDC140VNA-W Model FDUM140VNAWVH Indoor unit FDUM140VH (kW) (kW) Cooling Mod Indoor air temperature Indoor air temperature Outdoor Outdoo 21 °CDB 28 °CDB 33 °CDB air temp 18 °CDB 23 °CDB 27 °CDB 31 °CDB °CDB air temp 12 °CWB 14 °CWB 16 °CWB 18 °CWB 19 °CWB 20 °CWB 22 °CWB 24 °CWB CDB CWB 16 18 20 24 -19.8 8.07 7.88 7.68 °CDB TC TC SHC SHC TC SHC TC SHC TC SHC TC SHC TC SHC -20 7.97 7.78 SHC TC 14.99 11.79 15.78 11.75 16.21 11.58 17.06 12.15 17.92 11.76 -17.7 -18 8.20 8.13 8.05 7.93 7.80 -10 17.32 15.27 11.59 15.68 11.43 16.50 12.00 11.62 8.98 8.87 8.76 14.51 11.63 -15.7 -16 9.19 9.09 14.03 11.48 14.75 11.43 15.43 11.36 16.80 12.08 18.16 11.82 -13.5 -14 9.52 9.40 9.29 9.18 9.07 0 11.63 10.06 14.05 11.49 15.26 11.59 15.73 11.44 10.18 10.04 9.90 9.81 12.04 12.26 10.27 14.16 11.52 15.11 11.54 15.56 11.39 16.44 11.99 17.33 11.63 -9.5 10.84 10.68 10.52 10.43 10.35 11 12.79 10.46 14.91 11.48 15.44 11.36 10.98 14.20 11.53 16.52 12.01 17.59 11.69 -7.5 -8 11.50 11.32 11.14 11.06 13 13.33 10.64 14.24 11.55 14.70 11.42 15.33 11.33 16.59 12.03 11.75 12.08 11.63 16.67 12.05 15 13.86 10.83 14.29 11.56 14.50 11.36 15.22 11.29 -3.0 12.65 12.47 12.28 12.11 17 13.37 10.66 14.40 11.60 14.91 11.48 15.50 11.38 16.68 12.05 17.86 11.75 -1.0 13.23 13.04 12.85 12.77 12.68 19 1.0 13.24 13.95 10.86 14.51 11.63 15.33 11.61 15.78 11.46 16.69 12.05 17.59 13.81 13.62 13.42 13.33 11.69 15.62 11.41 13.71 10.78 14.36 11.59 15.17 11.56 14.10 13.90 13.71 13.62 13.53 21 16.53 12.01 17.43 2.0 23 13.47 10.69 14.22 11.54 15.01 11.51 15.46 11.36 16.36 11.97 17.27 11.61 3.0 14.46 14.26 14.07 13.98 13.89 15.17 25 27 13.32 11.36 13.34 10.65 14.15 11.52 14.93 11.49 15.38 11.34 16.28 11.95 17.18 11.59 5.0 4 14.98 14.78 14.69 14.60 13.22 10.61 14.07 11.49 14.85 11.46 15.49 11.37 16.13 11.91 29 12.81 11.15 12.91 10.50 13.75 11.39 14.54 11.37 15.18 11.28 15.81 11.83 9.0 8 16.31 16.12 15.85 15.77 31 12.53 11.05 12.60 10.39 13.43 11.29 14.23 11.27 14.86 11.19 15.50 11.75 11.5 10 16.73 16.55 16.36 16.28 16.21 17.61 17.39 17.18 17.10 17.01 33 35 10.63 9.79 11.45 10.63 12.28 10.28 13.11 11.19 13.91 11.18 14.55 11.10 15.18 11.67 13.5 12 10.45 9.72 11.21 10.54 11.97 10.17 12.79 11.09 13.60 11.09 14.23 11.01 14.86 11.59 14 18.48 18.24 18.00 17.91 37 10.32 9.66 11.03 10.47 11.74 10.09 12.48 11.00 13.22 10.98 13.80 10.89 14.38 11.48 16 18.92 18.67 18.41 18.32 18.22 39 10.20 9.61 10.85 10.41 11.51 10.01 12.17 10.90 12.84 10.87 13.36 10.77 13.89 11.36 41 11.87 10.81 12.45 10.76 13.41 11.24 10.07 9.56 10.67 10.34 11.28 9.93 12.93 10.66 43 11.04 9.86 11.56 10.72 9.94 9.51 10.49 10.27 12.07 10.65 12.50 10.54 12.92 11.13 46 9.75 9.43 10.22 10.02 10.70 9.74 11.10 10.58 11.50 10.49 11.85 10.37 12.20 10.96 PJG000Z623 ∕€\ 7.79 7.64 8.02 7.86 8.23 8.07 8.40 8.23 8.54 8.37 8.68 8.51

ooling Mo	ode															(kW)	Heating	Mode:	HC				(kV
							Indo	oor air t	empera	ture							Out	door		Indoor	air temp	erature)
Outdoor	18 °C	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27°	CDB	28 °	CDB	31 °	CDB	33 °	CDB	air te	emp.			°CDB		
ir temp.	12 °C	CWB	14 °C	CWB	16 °C	CWB	18 °C	CWB	19 °	CWB	20 °C	CWB	22 °(CWB	24 °(CWB	°CDB	°CWB	16	18	20	22	24
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	-19.8	-20	8.07	7.97	7.88	7.78	7.68
-15		0110		0110		01.10	14.99	11.79	15.78	11.75	16.21	11.58	17.06	12.15	17.92	11.76	-17.7	-18	8.20	8.13	8.05	7.93	7.80
-10							14.51	11.63	15.27	11.59	15.68	11.43	16,50	12.00	17.32	11.62	-15.7	-16	9.19	9.09	8.98	8.87	8.76
-5							14.03	11.48	14.75	11.43	15.43	11.36	16.80	12.08	18.16	11.82	-13.5	-14	9.52	9.40	9.29	9.18	9.07
0					11.63	10.06	14.05	11.49	15.26	11.59	15.73	11.44	16.65	12.04	17.58	11.68	-11.5	-12	10.18	10.04	9.90	9.81	9.71
5					12.26	10.27	14.16	11.52	15.11	11.54	15.56	11.39	16.44	11.99	17.33	11.63	-9.5	-10	10.84	10.68	10.52	10.43	10.35
11					12.79	10.46	14.20	11.53	14.91	11.48	15.44	11.36	16.52	12.01	17.59	11.69	-7.5	-8	11.50	11.32	11.14	11.06	10.98
13					13.33	10.64	14.24	11.55	14.70	11.42	15.33	11.33	16.59	12.03	17.86	11.75	-5.5	-6	12.08	11.89	11.71	11.63	11.55
15					13.86	10.83	14.29	11.56	14.50	11.36	15.22	11.29	16.67	12.05	18.12	11.81	-3.0	-4	12.65	12.47	12.28	12.20	12.11
17					13.37	10.66	14.40	11.60	14.91	11.48	15.50	11.38	16.68	12.05	17.86	11.75	-1.0	-2	13.23	13.04	12.85	12.77	12.68
19					13.95	10.86	14.51	11.63	15.33	11.61	15.78	11.46	16.69	12.05	17.59	11.69	1.0	0	13.81	13.62	13.42	13.33	13.24
21					13.71	10.78	14.36	11.59	15.17	11.56	15.62	11.41	16.53	12.01	17.43	11.65	2.0	1	14.10	13.90	13.71	13.62	13.53
23					13.47	10.69	14.22	11.54	15.01	11.51	15.46	11.36	16.36	11.97	17.27	11.61	3.0	2	14.46	14.26	14.07	13.98	13.89
25			13.32	11.36	13.34	10.65	14.15	11.52	14.93	11.49	15.38	11.34	16.28	11.95	17.18	11.59	5.0	4	15.17	14.98	14.78	14.69	14.60
27			13.09	11.26	13.22	10.61	14.07	11.49	14.85	11.46	15.49	11.37	16.13	11.91			7.0	6	15.89	15.69	15.50	15.41	15.32
29			12.81	11.15	12.91	10.50	13.75	11.39	14.54	11.37	15.18	11.28	15.81	11.83			9.0	8	16.31	16.12	15.93	15.85	15.77
31			12.53	11.05	12.60	10.39	13.43	11.29	14.23	11.27	14.86	11.19	15.50	11.75			11.5	10	16.73	16.55	16.36	16.28	16.21
	10.63	9.79	11.45	10.63	12.28	10.28	13.11	11.19	13.91	11.18	14.55	11.10	15.18	11.67			13.5	12	17.61	17.39	17.18	17.10	17.01
	10.45	9.72	11.21	10.54	11.97	10.17	12.79	11.09	13.60	11.09	14.23	11.01	14.86	11.59			15.5	14	18.48	18.24	18.00	17.91	17.82
	10.32	9.66	11.03	10.47	11.74 11.51	10.09	12.48	11.00	13.22	10.98	13.80	10.89	14.38	11.48			16.5	16	18.92	18.67	18.41	18.32	18.22

12.93 10.66

11.85 10.37

8.54 8.37 8.68 8.51

13.41 11.24

12.20 10.96

7.46 These data show average status

41

46

10.07 9.56 10.67

9.75 9.43 10.22 10.02

7.61

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed. (Cooling only)

11.87 10.81

11.56 10.72

11.10 10.58

In the heating mode in which the outside air temperature is 0° CDB or less, the compressor operates at maximum frequency. Capacities are based on the following conditions.

12.45 10.76

12.07 10.65

11.50 10.49

8.40 8.23

10.34 11.28 9.93

10.70 9.74

9.86

8.02 7.86 8.23 8.07

Corresponding refrigerant piping length :7.5m Level difference of Zero.

7.79 7.64

(3) Symbols are as follows

TC :Total cooling capacity (kW) SHC :Sensible heat capacity (kW) HC :Heating capacity (kW)

(b) Twin type

Model FDUM100VNAWPVH Indoor unit FDUM50VH (2 units) Outdoor unit FDC100VNA-W Cooling Mode

000																(
							Inde	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
an tomp.	12 °	CWB	14 °	CWB	16 °0	CWB	18 °	CWB	19 °	CWB	20 °	CWB	22 °	CWB	24 °0	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.02	8.26	11.60	8.32	11.92	8.25	12.55	8.60	13.18	8.43
-10							10.67	8.11	11.23	8.16	11.53	8.10	12.13	8.45	12.73	8.28
-5							10.31	7.96	10.85	8.01	11.35	8.02	12.35	8.53	13.36	8.49
0					8.55	6.92	10.33	7.97	11.22	8.16	11.56	8.11	12.25	8.49	12.93	8.35
5					9.01	7.12	10.41	8.01	11.11	8.12	11.44	8.06	12.09	8.43	12.74	8.28
11					9.41	7.30	10.44	8.02	10.96	8.05	11.36	8.03	12.15	8.46	12.94	8.35
13					9.80	7.47	10.47	8.03	10.81	7.99	11.27	8.00	12.20	8.48	13.13	8.41
15					10.19	7.65	10.50	8.04	10.66	7.93	11.19	7.96	12.26	8.50	13.32	8.48
17					9.83	7.49	10.59	8.08	10.97	8.06	11.40	8.04	12.26	8.50	13.13	8.41
19					10.26	7.68	10.67	8.11	11.27	8.18	11.61	8.13	12.27	8.50	12.94	8.35
21					10.08	7.60	10.56	8.07	11.15	8.13	11.49	8.08	12.15	8.46	12.82	8.31
23					9.90	7.52	10.45	8.02	11.04	8.08	11.37	8.03	12.03	8.41	12.70	8.27
25			9.79	7.92	9.81	7.48	10.40	8.00	10.98	8.06	11.31	8.01	11.97	8.39	12.63	8.25
27			9.62	7.84	9.72	7.44	10.35	7.98	10.92	8.04	11.39	8.04	11.86	8.35		
29			9.42	7.74	9.49	7.34	10.11	7.88	10.69	7.94	11.16	7.95	11.63	8.27		
31			9.21	7.64	9.26	7.23	9.87	7.78	10.46	7.85	10.93	7.86	11.39	8.18		
33	7.82	6.73	8.42	7.25	9.03	7.13	9.64	7.68	10.23	7.76	10.70	7.77	11.16	8.10		
35	7.68	6.66	8.24	7.17	8.80	7.03	9.40	7.58	10.00	7.66	10.46	7.68	10.93	8.02		
37	7.59	6.62	8.11	7.11	8.63	6.95	9.18	7.49	9.72	7.55	10.15	7.56	10.57	7.89		
39	7.50	6.57	7.98	7.05	8.46	6.88	8.95	7.40	9.44	7.44	9.83	7.44	10.22	7.76		
41	7.40	6.52	7.85	6.99	8.29	6.80	8.72	7.31	9.16	7.33	9.51	7.31	9.86	7.64		
43	7.31	6.48	7.72	6.92	8.12	6.73	8.50	7.22	8.88	7.22	9.19	7.20	9.50	7.52		
46	7.17	6.41	7.52	6.83	7.87	6.62	8.16	7.08	8.46	7.06	8.71	7.02	8.97	7.34		
50	5.60	5.49	5.73	5.62	5.90	5.78	6.05	5.93	6.17	6.05	6.28	6.15	6.38	6.26		l

(kW)		door		Indoor	air temp	erature	
_		emp.	_	ilidool		Ciatuic	
OB	all to	onip.			°CDB		
٧B	°CDB	°CWB	16	18	20	22	24
SHC	-19.8	-20	6.47	6.40	6.32	6.24	6.16
8.43	-17.7	-18	6.52	6.46	6.40	6.30	6.20
8.28	-15.7	-16	7.37	7.29	7.20	7.11	7.02
3.49	-13.5	-14	7.66	7.57	7.47	7.38	7.30
8.35	-11.5	-12	8.23	8.12	8.01	7.93	7.85
8.28	-9.5	-10	8.80	8.67	8.54	8.47	8.40
3.35	-7.5	-8	9.38	9.23	9.08	9.02	8.95
3.41	-5.5	-6	9.56	9.41	9.26	9.20	9.14
3.48	-3.0	-4	9.74	9.59	9.45	9.38	9.32
3.41	-1.0	-2	9.92	9.77	9.63	9.57	9.50
8.35	1.0	0	10.10	9.96	9.81	9.75	9.68
8.31	2.0	1	10.19	10.05	9.91	9.84	9.77
8.27	3.0	2	10.45	10.31	10.17	10.10	10.03
3.25	5.0	4	10.96	10.82	10.68	10.62	10.55
	7.0	6	11.48	11.34	11.20	11.13	11.07
	9.0	8	11.79	11.65	11.51	11.45	11.39
	11.5	10	12.09	11.96	11.82	11.77	11.71
	13.5	12	12.72	12.57	12.41	12.35	12.29
	15.5	14	13.35	13.18	13.01	12.94	12.88
	16.5	16	13.67	13.49	13.31	13.24	13.17

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Model FDUM100VSAWPVH

Indoor unit FDUM50VH (2 units)

Outdoor unit FDC100VSA-W

Cooling M	lode								,							(kW
							Ind	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
яп топпр.	12 °	CWB	14 °	CWB	16 °	CWB	18 °	CWB	19 °	CWB	20 °C	CWB	22 °	CWB	24 °C	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.02	8.26	11.60	8.32	11.92	8.25	12.55	8.60	13.18	8.43
-10							10.67	8.11	11.23	8.16	11.53	8.10	12.13	8.45	12.73	8.28
-5							10.31	7.96	10.85	8.01	11.35	8.02	12.35	8.53	13.36	8.49
0					8.55	6.92	10.33	7.97	11.22	8.16	11.56	8.11	12.25	8.49	12.93	8.35
5					9.01	7.12	10.41	8.01	11.11	8.12	11.44	8.06	12.09	8.43	12.74	8.28
11					9.41	7.30	10.44	8.02	10.96	8.05	11.36	8.03	12.15	8.46	12.94	8.35
13					9.80	7.47	10.47	8.03	10.81	7.99	11.27	8.00	12.20	8.48	13.13	8.41
15					10.19	7.65	10.50	8.04	10.66	7.93	11.19	7.96	12.26	8.50	13.32	8.48
17					9.83	7.49	10.59	8.08	10.97	8.06	11.40	8.04	12.26	8.50	13.13	8.41
19					10.26	7.68	10.67	8.11	11.27	8.18	11.61	8.13	12.27	8.50	12.94	8.35
21					10.08	7.60	10.56	8.07	11.15	8.13	11.49	8.08	12.15	8.46	12.82	8.31
23					9.90	7.52	10.45	8.02	11.04	8.08	11.37	8.03	12.03	8.41	12.70	8.27
25			9.79	7.92	9.81	7.48	10.40	8.00	10.98	8.06	11.31	8.01	11.97	8.39	12.63	8.25
27			9.62	7.84	9.72	7.44	10.35	7.98	10.92	8.04	11.39	8.04	11.86	8.35		
29			9.42	7.74	9.49	7.34	10.11	7.88	10.69	7.94	11.16	7.95	11.63	8.27		
31			9.21	7.64	9.26	7.23	9.87	7.78	10.46	7.85	10.93	7.86	11.39	8.18		
33	7.82	6.73	8.42	7.25	9.03	7.13	9.64	7.68	10.23	7.76	10.70	7.77	11.16	8.10		
35	7.68	6.66	8.24	7.17	8.80	7.03	9.40	7.58	10.00	7.66	10.46	7.68	10.93	8.02		
37	7.59	6.62	8.11	7.11	8.63	6.95	9.18	7.49	9.72	7.55	10.15	7.56	10.57	7.89		
39	7.50	6.57	7.98	7.05	8.46	6.88	8.95	7.40	9.44	7.44	9.83	7.44	10.22	7.76		
41	7.40	6.52	7.85	6.99	8.29	6.80	8.72	7.31	9.16	7.33	9.51	7.31	9.86	7.64		
43	7.31	6.48	7.72	6.92	8.12	6.73	8.50	7.22	8.88	7.22	9.19	7.20	9.50	7.52		
46	7.17	6.41	7.52	6.83	7.87	6.62	8.16	7.08	8.46	7.06	8.71	7.02	8.97	7.34		
50	5.60	5.49	5.73	5.62	5.90	5.78	6.05	5.93	6.17	6.05	6.28	6.15	6.38	6.26		1

(kW)				Indoor	air tamr	erature	
_		door	-	muoor		Jeralure	,
DB	air te	emp.			°CDB		
VВ	°CDB	°CWB	16	18	20	22	24
SHC	-19.8	-20	6.47	6.40	6.32	6.24	6.16
8.43	-17.7	-18	6.52	6.46	6.40	6.30	6.20
8.28	-15.7	-16	7.37	7.29	7.20	7.11	7.02
8.49	-13.5	-14	7.66	7.57	7.47	7.38	7.30
8.35	-11.5	-12	8.23	8.12	8.01	7.93	7.85
8.28	-9.5	-10	8.80	8.67	8.54	8.47	8.40
8.35	-7.5	-8	9.38	9.23	9.08	9.02	8.95
8.41	-5.5	-6	9.56	9.41	9.26	9.20	9.14
8.48	-3.0	-4	9.74	9.59	9.45	9.38	9.32
8.41	-1.0	-2	9.92	9.77	9.63	9.57	9.50
8.35	1.0	0	10.10	9.96	9.81	9.75	9.68
8.31	2.0	1	10.19	10.05	9.91	9.84	9.77
8.27	3.0	2	10.45	10.31	10.17	10.10	10.03
8.25	5.0	4	10.96	10.82	10.68	10.62	10.55
	7.0	6	11.48	11.34	11.20	11.13	11.07
	9.0	8	11.79	11.65	11.51	11.45	11.39
	11.5	10	12.09	11.96	11.82	11.77	11.71
	13.5	12	12.72	12.57	12.41	12.35	12.29
	15.5	14	13.35	13.18	13.01	12.94	12.88
	16.5	16	13.67	13.49	13.31	13.24	13.17

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Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed. (Cooling only)
In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

(2) Capacities are based on the following conditions.

Corresponding refrigerant piping length :7.5m Level difference of Zero.

(3) Symbols are as follows
TC :Total cooling capacity (kW)
SHC :Sensible heat capacity (kW)
HC :Heating capacity (kW)

Model FDUM125VNAWPVH Indoor unit FDUM60VH (2 units) Outdoor unit FDC125VNA-W

Cooling Mo	de															(kW)
Outdoor							Inde	oor air t	empera	ture						-
air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
all temp.	12 °C	CWB	14 °0	CWB	16 °0	CWB	18 °	CWB	19 °	CWB	20 °	CWB	22 °	CWB	24 °	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							13.77	10.77	14.50	10.78	14.89	10.65	15.68	11.16	16.47	13.73
-10							13.34	10.61	14.04	10.61	14.41	10.49	15.16	11.00	15.92	13.27
-5							12.89	10.45	13.56	10.44	14.18	10.42	15.44	11.09	16.69	13.92
0					10.69	9.12	12.92	10.45	14.03	10.61	14.45	10.51	15.31	11.05	16.16	13.47
5					11.27	9.34	13.01	10.49	13.89	10.56	14.30	10.45	15.11	10.99	15.93	13.28
11					11.76	9.53	13.05	10.50	13.70	10.49	14.19	10.42	15.18	11.01	16.17	13.48
13					12.25	9.72	13.09	10.52	13.51	10.43	14.09	10.38	15.25	11.03	16.41	13.68
15					12.74	9.92	13.13	10.53	13.32	10.36	13.99	10.35	15.32	11.05	16.65	13.88
17					12.28	9.74	13.23	10.57	13.71	10.50	14.25	10.44	15.33	11.05	16.41	13.68
19					12.82	9.95	13.34	10.61	14.09	10.63	14.51	10.52	15.34	11.06	16.17	13.48
21					12.60	9.86	13.20	10.56	13.94	10.58	14.36	10.47	15.19	11.01	16.02	13.35
23					12.38	9.77	13.07	10.51	13.80	10.53	14.21	10.42	15.04	10.97	15.87	13.23
25			12.24	10.33	12.26	9.73	13.00	10.48	13.72	10.50	14.14	10.40	14.97	10.94	15.79	13.17
27			12.03	10.24	12.15	9.68	12.93	10.46	13.65	10.48	14.24	10.43	14.83	10.90		
29			11.77	10.13	11.87	9.57	12.64	10.35	13.36	10.38	13.95	10.34	14.53	10.81		
31			11.51	10.02	11.58	9.46	12.34	10.25	13.07	10.28	13.66	10.24	14.24	10.73		
33	9.77	8.86	10.52	9.60	11.29	9.35	12.05	10.14	12.79	10.18	13.37	10.15	13.95	10.64		
35	9.60	8.79	10.30	9.51	11.00	9.24	11.75	10.04	12.50	10.08	13.08	10.05	13.66	10.56		
37	9.49	8.73	10.14	9.44	10.79	9.15	11.47	9.94	12.15	9.96	12.68	9.92	13.21	10.43		
39	9.37	8.68	9.97	9.37	10.58	9.07	11.19	9.84	11.80	9.85	12.28	9.80	12.77	10.30		
41	9.25	8.63	9.81	9.30	10.36	8.99	10.91	9.75	11.45	9.73	11.89	9.67	12.32	10.17		
43	9.14	8.58	9.64	9.24	10.15	8.91	10.62	9.65	11.10	9.62	11.49	9.55	11.88	10.05		
46	8.96	8.50	9.40	9.14	9.83	8.79	10.20	9.50	10.57	9.44	10.89	9.36	11.21	9.86		
50	7.00	6.86	7.16	7.02	7.37	7.22	7.57	7.41	7.72	7.56	7.85	7.69	7.98	7.82		

Heating	Mode:	HC				(kW)
Out	door		Indoor	air temp	erature	;
air te	emp.			°CDB		
°CDB	°CWB	16	18	20	22	24
-19.8	-20	7.60	7.51	7.42	7.33	7.24
-17.7	-18	7.80	7.73	7.66	7.54	7.42
-15.7	-16	8.66	8.56	8.46	8.36	8.25
-13.5	-14	8.95	8.84	8.73	8.63	8.53
-11.5	-12	9.52	9.39	9.26	9.17	9.08
-9.5	-10	10.10	9.95	9.80	9.72	9.64
-7.5	-8	10.67	10.50	10.34	10.26	10.19
-5.5	-6	11.13	10.96	10.79	10.72	10.64
-3.0	-4	11.59	11.42	11.25	11.17	11.09
-1.0	-2	12.05	11.87	11.70	11.62	11.54
1.0	0	12.50	12.33	12.16	12.07	11.99
2.0	1	12.73	12.56	12.38	12.30	12.22
3.0	2	13.06	12.88	12.71	12.62	12.54
5.0	4	13.70	13.53	13.35	13.27	13.19
7.0	6	14.35	14.18	14.00	13.92	13.84
9.0	8	14.73	14.56	14.39	14.31	14.24
11.5	10	15.11	14.94	14.78	14.71	14.64
13.5	12	15.90	15.71	15.52	15.44	15.37
15.5	14	16.69	16.48	16.26	16.18	16.09
16.5	16	17.09	16.86	16.63	16.54	16.46

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Model FDUM125VSAWPVH

Cooling Mode

Indoor unit FDUM60VH (2 units)

Outdoor unit FDC125VSA-W

Outdoor							Indo	oor air t	empera	ture						
Outdoor air temp.	18 °C	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
un tomp.	12 °C	BWC	14 °0	CWB	16 °0	CWB	18 °C	CWB	19 °	CWB	20 °	CWB	22 °	CWB	24 °0	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							13.77	10.77	14.50	10.78	14.89	10.65	15.68	11.16	16.47	13.73
-10							13.34	10.61	14.04	10.61	14.41	10.49	15.16	11.00	15.92	13.27
-5							12.89	10.45	13.56	10.44	14.18	10.42	15.44	11.09	16.69	13.92
0					10.69	9.12	12.92	10.45	14.03	10.61	14.45	10.51	15.31	11.05	16.16	13.47
5					11.27	9.34	13.01	10.49	13.89	10.56	14.30	10.45	15.11	10.99	15.93	13.28
11					11.76	9.53	13.05	10.50	13.70	10.49	14.19	10.42	15.18	11.01	16.17	13.48
13					12.25	9.72	13.09	10.52	13.51	10.43		10.38	15.25	11.03	16.41	13.68
15					12.74	9.92	13.13	10.53	13.32	10.36	13.99	10.35	15.32	11.05		13.88
17					12.28	9.74	13.23	10.57	13.71	10.50	14.25	10.44	15.33	11.05	16.41	13.68
19					12.82	9.95	13.34	10.61	14.09	10.63	14.51	10.52	15.34	11.06	16.17	13.48
21					12.60	9.86	13.20	10.56	13.94	10.58	14.36	10.47	15.19	11.01	16.02	13.35
23					12.38	9.77	13.07	10.51	13.80	10.53	14.21	10.42	15.04	10.97	15.87	13.23
25			12.24	10.33	12.26	9.73	13.00	10.48	13.72	10.50	14.14	10.40	14.97	10.94	15.79	13.17
27			12.03	10.24	12.15	9.68	12.93	10.46	13.65	10.48		10.43	14.83	10.90		
29			11.77	10.13	11.87	9.57	12.64	10.35	13.36	10.38	13.95	10.34	14.53	10.81		
31			11.51	10.02	11.58	9.46	12.34	10.25	13.07	10.28	13.66	10.24	14.24	10.73		
33	9.77	8.86	10.52	9.60	11.29	9.35	12.05	10.14	12.79	10.18	13.37	10.15	13.95	10.64		
35	9.60	8.79	10.30	9.51	11.00	9.24	11.75	10.04	12.50	10.08	13.08	10.05	13.66	10.56		
37	9.49	8.73	10.14	9.44	10.79	9.15	11.47	9.94	12.15	9.96	12.68	9.92	13.21	10.43		
39	9.37	8.68	9.97	9.37	10.58	9.07	11.19	9.84	11.80	9.85	12.28	9.80	12.77	10.30		
41	9.25	8.63	9.81	9.30	10.36	8.99	10.91	9.75	11.45	9.73	11.89	9.67	12.32	10.17		
43	9.14	8.58	9.64	9.24	10.15	8.91	10.62	9.65	11.10	9.62	11.49	9.55	11.88	10.05		
46	8.96	8.50	9.40	9.14	9.83	8.79	10.20	9.50	10.57	9.44	10.89	9.36	11.21	9.86		
50	7.00	6.86	7.16	7.02	7.37	7.22	7.57	7.41	7.72	7.56	7.85	7.69	7.98	7.82		

Heating	Mode :	HC				(kW)
Outo	door		Indoor	air temp	erature	
air te	emp.			°CDB		
°CDB	°CWB	16	18	20	22	24
-19.8	-20	7.60	7.51	7.42	7.33	7.24
-17.7	-18	7.80	7.73	7.66	7.54	7.42
-15.7	-16	8.66	8.56	8.46	8.36	8.25
-13.5	-14	8.95	8.84	8.73	8.63	8.53
-11.5	-12	9.52	9.39	9.26	9.17	9.08
-9.5	-10	10.10	9.95	9.80	9.72	9.64
-7.5	-8	10.67	10.50	10.34	10.26	10.19
-5.5	-6	11.13	10.96	10.79	10.72	10.64
-3.0	-4	11.59	11.42	11.25	11.17	11.09
-1.0	-2	12.05	11.87	11.70	11.62	11.54
1.0	0	12.50	12.33	12.16	12.07	11.99
2.0	1	12.73	12.56	12.38	12.30	12.22
3.0	2	13.06	12.88	12.71	12.62	12.54
5.0	4	13.70	13.53	13.35	13.27	13.19
7.0	6	14.35	14.18	14.00	13.92	13.84
9.0	8	14.73	14.56	14.39	14.31	14.24
11.5	10	15.11	14.94	14.78	14.71	14.64
13.5	12	15.90	15.71	15.52	15.44	15.37
15.5	14	16.69	16.48	16.26	16.18	16.09
16.5	16	17.09	16.86	16.63	16.54	16.46
	Oute air te "CDB -19.8 -19.8 -17.7 -15.7 -13.5 -11.5 -9.5 -7.5 -3.0 -1.0 1.0 2.0 3.0 5.0 7.0 9.0 11.5 13.5 15.5	Outdoor air temp. °CDB °CWB -19.8 -20 -17.7 -18 -15.7 -16 -13.5 -14 -11.5 -12 -9.5 -10 -7.5 -8 -5.5 -6 -3.0 -4 -1.0 -2 1.0 0 2.0 1 3.0 2 5.0 4 7.0 6 9.0 8 11.5 10 13.5 12 15.5 14	air temp. *CDB *CWB 16 -19.8 -20 7.60 -17.7 -18 7.80 -15.7 -16 8.66 -13.5 -14 8.95 -11.5 -12 9.52 -9.5 -10 10.10 -7.5 -8 10.67 -5.5 -6 11.13 -3.0 -4 11.59 -1.0 0 12.50 2.0 1 12.73 3.0 2 13.06 5.0 4 13.70 7.0 6 14.35 9.0 8 14.73 11.5 10 15.11 13.5 12 15.90 15.5 14 16.69	Outdoor air temp. Indoor air temp. °CDB °CWB 16 18 -19.8 -20 7.60 7.51 -17.7 -18 7.80 7.73 -15.7 -16 8.66 8.56 -13.5 -14 8.95 8.84 -11.5 -12 9.52 9.39 -9.5 -10 10.10 9.95 -7.5 -8 10.67 10.59 -3.0 -4 11.59 11.42 -1.0 -2 12.05 11.87 1.0 0 12.50 12.33 2.0 1 12.73 12.56 3.0 2 13.06 12.88 5.0 4 13.70 13.53 7.0 6 14.35 14.18 9.0 8 14.73 14.94 13.5 12 15.90 15.71 15.5 14 16.69 16.48	Outdoor air temp. **CDB **CWB 16 18 20 -19.8 -20 7.60 7.51 7.42 -17.7 -18 7.80 7.73 7.66 -15.7 -16 8.66 8.56 8.46 -13.5 -14 8.95 8.84 8.73 -11.5 -12 9.52 9.39 9.26 -9.5 -10 10.10 9.95 9.80 -7.5 -8 10.67 10.50 10.34 -7.5 -6 11.13 10.96 10.79 -3.0 -4 11.59 11.42 11.25 -1.0 -2 12.05 11.87 11.70 1.0 0 12.50 12.33 12.16 2.0 1 12.73 12.56 12.38 3.0 2 13.06 12.88 12.71 5.0 4 13.70 13.53 13.35 7.0 6 14.35 14.18 14.00 9.0 8 14.73 14.56 14.39 11.5 10 15.11 14.94 14.78 13.5 12 15.90 15.71 15.52 15.5 12 15.90 15.71 15.52	Outdoor air temp. Indoor air temperature °CDB °CWB 16 18 20 22 -19.8 -20 7.60 7.51 7.42 7.33 -17.7 -18 7.80 7.73 7.66 7.54 -15.7 -16 8.66 8.56 8.46 8.36 -13.5 -14 8.95 8.84 8.73 8.63 -11.5 -12 9.52 9.39 9.26 9.17 -9.5 -10 10.10 9.95 9.80 9.72 -7.5 -8 10.67 10.50 10.34 10.26 -5.5 -6 61.113 10.96 10.79 10.72 -3.0 -4 11.59 11.42 11.25 11.17 -1.0 -2 12.05 11.87 11.70 11.62 1.0 0 12.50 12.33 12.16 12.07 2.0 1 12.73 12.56 12.38 12.30<

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Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously. These data show the case where the operation frequency of a compressor is fixed. (Cooling only)

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

(2) Capacities are based on the following conditions.

Corresponding refrigerant piping length: 7.5m

Level difference of Zero.

(3) Symbols are as follows
TC :Total cooling capacity (kW)
SHC :Sensible heat capacity (kW)

HC: Heating capacity (kW)

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Model FDUM140VNAWPVH Indoor unit FDUM71VH (2 units) Outdoor unit FDC140VNA-W (kW) (kW) Indoor air temperature Indoor air temperature Outdoor Outdoo 21 °CDB 28 °CDB 33 °CDB air temp 18 °CDB 23 °CDB 26 °CDB 27 °CDB 31 °CDB air temp 12 °CWB 14 °CWB 16 °CWB 18 °CWB 19 °CWB 20 °CWB 22 °CWB 24 °CWB CDB CWB 16 18 20 24 °CDB -19.8 8.07 7.88 7.68 TC TC SHC SHC TC SHC TC SHC TC SHC TC SHC TC SHC -20 7.97 7.78 SHC TC 14.99 12.20 15.78 12.19 16.21 12.04 17.06 12.66 17.92 12.32 -17.7 -18 8.20 8.13 8.05 7.93 7.80 -10 17.32 15.27 12.02 15.68 11.88 16.50 12.50 12.17 8.98 8.87 8.76 14.51 12.03 -15.7 -16 9.19 9.09 14.03 11.87 14.75 11.85 15.43 11.80 16.80 12.58 18.16 12.38 -13.5 -14 9.40 9.29 9.18 9.07 9.52 0 11.63 10.37 14.05 11.87 15.26 12.02 15.73 11.89 10.18 10.04 9.90 9.81 12.26 10.59 14.16 11.91 15.11 11.97 15.56 11.84 16.44 12.48 17.33 12.17 -9.5 10.84 10.68 10.52 10.43 10.35 11 12.79 10.79 15.44 11.80 12.24 10.98 14.20 11.93 14.91 11.90 16.52 12.51 17.59 -7.5 -8 11.50 11.32 11.14 11.06 13 13.33 10.99 14.24 11.94 14.70 11.83 15.33 11.77 16.59 12.53 12.30 12.08 11.63 15.22 11.73 15 13.86 11.19 14.29 11.95 14.50 11.76 16.67 12.55 -3.0 12.65 12.47 12.11 17 13.37 11.01 14.40 11.99 14.91 11.90 15.50 11.82 16.68 12.55 17.86 12.30 -1.0 13.23 13.04 12.85 12.77 12.68 19 1.0 13.95 11.23 14.51 12.03 15.33 12.04 15.78 11.91 16.69 12.55 17.59 12.24 13.81 13.62 13.42 13.33 13.24 15.62 11.86 13.71 11.13 14.36 11.98 15.17 11.99 14.10 13.90 13.71 13.62 13.53 21 16.53 12.51 17.43 12.20 2.0 23 13.47 11.04 14.22 11.93 15.01 11.93 15.46 11.81 16.36 12.46 17.27 12.16 3.0 14.46 14.26 14.07 13.98 13.89 25 27 13.32 11.68 13.34 11.00 14.15 11.91 14.93 11.91 15.38 11.78 16.28 12.44 17.18 12.13 5.0 4 15.17 14.98 14.78 14.69 14.60 13.22 10.95 14.07 11.88 15.49 11.82 16.13 12.40 29 12.81 11.47 12.91 10.84 13.75 11.77 14.54 11.78 15.18 11.72 15.81 12.31 9.0 8 16.31 16.12 15.85 15.77 31 12.53 11.35 12.60 10.72 13.43 11.66 14.23 11.68 14.86 11.62 15.50 12.22 11.5 10 16.73 16.55 16.36 16.28 16.21 17.61 17.39 17.18 33 35 10.63 10.04 11.45 10.92 12.28 10.60 13.11 11.55 13.91 11.58 14.55 11.52 15.18 12.13 13.5 17.10 17.01 10.45 9.97 11.21 10.82 11.97 10.49 12.79 11.45 13.60 11.48 14.86 12.05 14 18.48 18.24 18.00 17.91 37 10.32 9.91 11.03 10.75 11.74 10.40 12.48 11.35 13.22 11.35 13.80 11.30 14.38 11.92 18.92 18.67 18.41 18.32 18.22 39 10.20 9.86 10.85 10.63 11.51 10.32 12.17 11.24 12.84 11.23 13.36 11.17 13.89 11.79 41 10.46 11.87 11.14 12.45 11.11 13.41 11.66 10.07 9.80 10.67 11.28 10.24 12.93 11.04 43 11.04 10.15 9.94 10.49 10.28 11.56 11.04 12.07 11.00 12.50 10.91 12.92 11.53 10.22 46 9.75 9.56 10.02 10.70 10.03 11.10 10.88 11.50 10.82 11.85 10.72 12.20 11.34 PJG000Z623 ∕€\

8.54 8.37

Indoor unit FDUM71VH (2 units) Outdoor unit FDC140VSA-W Model FDUM140VSAWPVH Cooling Mode Heating Mode:HC Indoor air temperature

8.40 8.23

Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
тэттр.	12 °C	CWB	14 °	CWB	16 °	CWB	18 °	CWB	19 °	CWB	20 °	CWB	22 °	CWB	24 °C	CWB
°CDB	TC	SHC														
-15							14.99	12.20	15.78	12.19	16.21	12.04	17.06	12.66	17.92	12.32
-10							14.51	12.03	15.27	12.02	15.68	11.88	16.50	12.50	17.32	12.17
-5							14.03	11.87	14.75	11.85	15.43	11.80	16.80	12.58	18.16	12.38
0					11.63	10.37	14.05	11.87	15.26	12.02	15.73	11.89	16.65	12.54	17.58	12.23
5					12.26	10.59	14.16	11.91	15.11	11.97	15.56	11.84	16.44	12.48	17.33	12.17
11					12.79	10.79	14.20	11.93	14.91	11.90	15.44	11.80	16.52	12.51	17.59	12.24
13					13.33	10.99	14.24	11.94	14.70	11.83	15.33	11.77	16.59	12.53	17.86	12.30
15					13.86	11.19	14.29	11.95	14.50	11.76	15.22	11.73	16.67	12.55	18.12	12.37
17					13.37	11.01	14.40	11.99	14.91	11.90	15.50	11.82	16.68	12.55	17.86	12.30
19					13.95	11.23	14.51	12.03	15.33	12.04	15.78	11.91	16.69	12.55	17.59	12.24
21					13.71	11.13	14.36	11.98	15.17	11.99	15.62	11.86	16.53	12.51	17.43	12.20
23					13.47	11.04	14.22	11.93	15.01	11.93	15.46	11.81	16.36	12.46	17.27	12.16
25			13.32	11.68	13.34	11.00	14.15	11.91	14.93	11.91	15.38	11.78	16.28	12.44	17.18	12.13
27			13.09	11.58	13.22	10.95	14.07	11.88	14.85	11.88	15.49	11.82	16.13	12.40		
29			12.81	11.47	12.91	10.84	13.75	11.77	14.54	11.78	15.18	11.72	15.81	12.31		
31			12.53	11.35	12.60	10.72	13.43	11.66	14.23	11.68	14.86	11.62	15.50	12.22		
33	10.63	10.04	11.45	10.92	12.28	10.60	13.11	11.55	13.91	11.58	14.55	11.52	15.18	12.13		
35	10.45	9.97	11.21	10.82	11.97	10.49	12.79	11.45	13.60	11.48	14.23	11.43	14.86	12.05		
37	10.32	9.91	11.03	10.75	11.74	10.40	12.48	11.35	13.22	11.35	13.80	11.30	14.38	11.92		
39	10.20	9.86	10.85	10.63	11.51	10.32	12.17	11.24	12.84	11.23	13.36	11.17	13.89	11.79		
41	10.07	9.80	10.67	10.46	11.28	10.24	11.87	11.14	12.45	11.11	12.93	11.04	13.41	11.66		
43	9.94	9.74	10.49	10.28	11.04	10.15	11.56	11.04	12.07	11.00	12.50	10.91	12.92	11.53		
46	9.75	9.56	10.22	10.02	10.70	10.03	11.10	10.88	11.50	10.82	11.85	10.72	12.20	11.34		
50	7.61	7 46	7 79	7 64	8.02	7.86	8 23	8.07	8 40	8 23	8 54	8.37	8 68	8.51		

	door		Indoor	air temp	perature	•
air te	emp.			°CDB		
°CDB	°CWB	16	18	20	22	24
-19.8	-20	8.07	7.97	7.88	7.78	7.68
-17.7	-18	8.20	8.13	8.05	7.93	7.80
-15.7	-16	9.19	9.09	8.98	8.87	8.76
-13.5	-14	9.52	9.40	9.29	9.18	9.07
-11.5	-12	10.18	10.04	9.90	9.81	9.71
-9.5	-10	10.84	10.68	10.52	10.43	10.35
-7.5	-8	11.50	11.32	11.14	11.06	10.98
-5.5	-6	12.08	11.89	11.71	11.63	11.55
-3.0	-4	12.65	12.47	12.28	12.20	12.11
-1.0	-2	13.23	13.04	12.85	12.77	12.68
1.0	0	13.81	13.62	13.42	13.33	13.24
2.0	1	14.10	13.90	13.71	13.62	13.53
3.0	2	14.46	14.26	14.07	13.98	13.89
5.0	4	15.17	14.98	14.78	14.69	14.60
7.0	6	15.89	15.69	15.50	15.41	15.32
9.0	8	16.31	16.12	15.93	15.85	15.77
11.5	10	16.73	16.55	16.36	16.28	16.21
13.5	12	17.61	17.39	17.18	17.10	17.01
15.5	14	18.48	18.24	18.00	17.91	17.82
16.5	16	18.92	18.67	18.41	18.32	18.22

(kW)

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Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed. (Cooling only)

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency. (2) Capacities are based on the following conditions.

7.79 7.64

8.02 7.86

8.23 8.07

Corresponding refrigerant piping length :7.5m Level difference of Zero.

(3) Symbols are as follows

TC :Total cooling capacity (kW) SHC :Sensible heat capacity (kW) HC :Heating capacity (kW)

(c) Triple type

Model FDUM140VNAWTVH Indoor unit FDUM50VH (3 units) Outdoor unit FDC140VNA-W Cooling Mode

0.11							Inde	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
u tomp.	12 °C	CWB	14 °C	CWB	16 °C	CWB	18 °	CWB	19 °C	CWB	20 °C	CWB	22 °	CWB	24 °C	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							14.99	11.74	15.78	11.81	16.21	11.72	17.06	12.26	17.92	12.03
-10							14.51	11.54	15.27	11.61	15.68	11.51	16.50	12.06	17.32	11.83
-5							14.03	11.34	14.75	11.40	15.43	11.42	16.80	12.17	18.16	12.11
0					11.63	9.86	14.05	11.36	15.26	11.60	15.73	11.53	16.65	12.12	17.58	11.92
5					12.26	10.13	14.16	11.40	15.11	11.54	15.56	11.46	16.44	12.04	17.33	11.83
11					12.79	10.36	14.20	11.42	14.91	11.46	15.44	11.42	16.52	12.07	17.59	11.92
13					13.33	10.60	14.24	11.43	14.70	11.38	15.33	11.38	16.59	12.10	17.86	12.01
15					13.86	10.83	14.29	11.45	14.50	11.30	15.22	11.34	16.67	12.12	18.12	12.09
17					13.37	10.61	14.40	11.50	14.91	11.46	15.50	11.44	16.68	12.13	17.86	12.01
19					13.95	10.87	14.51	11.54	15.33	11.63	15.78	11.55	16.69	12.13	17.59	11.92
21					13.71	10.76	14.36	11.48	15.17	11.56	15.62	11.49	16.53	12.07	17.43	11.87
23					13.47	10.66	14.22	11.42	15.01	11.50	15.46	11.43	16.36	12.01	17.27	11.81
25			13.32	11.21	13.34	10.60	14.15	11.39	14.93	11.47	15.38	11.40	16.28	11.98	17.18	11.79
27			13.09	11.10	13.22	10.55	14.07	11.36	14.85	11.44	15.49	11.44	16.13	11.93		
29			12.81	10.97	12.91	10.41	13.75	11.23	14.54	11.31	15.18	11.32	15.81	11.82		
31			12.53	10.83	12.60	10.28	13.43	11.10	14.23	11.19	14.86	11.20	15.50	11.71		
33	10.63	9.55	11.45	10.33	12.28	10.14	13.11	10.97	13.91	11.07	14.55	11.08	15.18	11.60		
35	10.45	9.46	11.21	10.22	11.97	10.00	12.79	10.84	13.60	10.94	14.23	10.96	14.86	11.49		
37	10.32	9.40	11.03	10.14	11.74	9.90	12.48	10.72	13.22	10.80	13.80	10.80	14.38	11.32		
39	10.20	9.34	10.85	10.05	11.51	9.81	12.17	10.60	12.84	10.65	13.36	10.64	13.89	11.16		
41	10.07	9.27	10.67	9.97	11.28	9.71	11.87	10.48	12.45	10.50	12.93	10.48	13.41	10.99		
43	9.94	9.21	10.49	9.89	11.04	9.61	11.56	10.36	12.07	10.36	12.50	10.32	12.92	10.83		
46	9.75	9.12	10.22	9.77	10.70	9.46	11.10	10.18	11.50	10.14	11.85	10.09	12.20	10.59		
50	7.61	7.46	7.79	7.64	8.02	7.86	8.23	8.07	8.40	8.23	8.54	8.37	8.68	8.51		

(kW)	H	leating	Mode:	HC				(kW)
		Outo	door		Indoor	air temp	erature	:
DB		air te	emp.			°CDB		
VΒ	ı	°CDB	°CWB	16	18	20	22	24
SHC	Γ	-19.8	-20	8.07	7.97	7.88	7.78	7.68
2.03	ı	-17.7	-18	8.20	8.13	8.05	7.93	7.80
1.83	ı	-15.7	-16	9.19	9.09	8.98	8.87	8.76
2.11	ſ	-13.5	-14	9.52	9.40	9.29	9.18	9.07
1.92		-11.5 -12 -9.5 -10 -7.5 -8 -5.5 -6		10.18	10.04	9.90	9.81	9.71
1.83				10.84	10.68	10.52	10.43	10.35
1.92				11.50	11.32	11.14	11.06	10.98
2.01		-9.5 - -7.5 - -5.5 - -3.0 -	-6	12.08	11.89	11.71	11.63	11.55
2.09	ı	-3.0	-4	12.65	12.47	12.28	12.20	12.11
2.01	ſ	-1.0	-2	13.23	13.04	12.85	12.77	12.68
1.92	ı	1.0	0	13.81	13.62	13.42	13.33	13.24
1.87	ı	2.0	1	14.10	13.90	13.71	13.62	13.53
1.81	ſ	3.0	2	14.46	14.26	14.07	13.98	13.89
1.79	ı	5.0	4	15.17	14.98	14.78	14.69	14.60
	Г	7.0	6	15.89	15.69	15.50	15.41	15.32
		9.0	8	16.31	16.12	15.93	15.85	15.77
		11.5	10	16.73	16.55	16.36	16.28	16.21
		13.5	12	17.61	17.39	17.18	17.10	17.01
		15.5	14	18.48	18.24	18.00	17.91	17.82
	I	16.5	16	18.92	18.67	18.41	18.32	18.22

PJG000Z623

Model FDUM140VSAWTVH

Indoor unit FDUM50VH (3 units)

Outdoor unit FDC140VSA-W

Cooling M	oae															(KW)	Heating	, ivioae:	:HC
Outdoor							Ind	oor air t	empera	ture								door	L
air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB	air t	emp.	ı
aii tomp.	12 °C	CWB	14 °	CWB	16 °0	CWB	18 °	CWB	19 °	CWB	20 °	CWB	22 °	CWB	24 °(CWB	°CDB	°CWB	1
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	-19.8	-20	8.0
-15							14.99	11.74	15.78	11.81	16.21	11.72	17.06	12.26	17.92	12.03	-17.7	-18	8.2
-10							14.51	11.54	15.27	11.61	15.68	11.51	16.50	12.06	17.32	11.83	-15.7	-16	9.1
-5							14.03	11.34	14.75	11.40	15.43	11.42	16.80	12.17	18.16	12.11	-13.5	-14	9.5
0					11.63	9.86	14.05	11.36	15.26	11.60	15.73	11.53	16.65	12.12	17.58	11.92	-11.5	-12	10.1
5					12.26	10.13	14.16	11.40	15.11	11.54	15.56	11.46	16.44	12.04	17.33	11.83	-9.5	-10	10.
11					12.79	10.36	14.20	11.42	14.91	11.46	15.44	11.42	16.52	12.07	17.59	11.92	-7.5	-8	11.
13					13.33	10.60	14.24	11.43	14.70	11.38	15.33	11.38	16.59	12.10	17.86	12.01	-5.5	-6	12.
15					13.86	10.83	14.29	11.45	14.50	11.30	15.22	11.34	16.67	12.12	18.12	12.09	-3.0	-4	12.0
17					13.37	10.61	14.40	11.50	14.91	11.46	15.50	11.44	16.68	12.13	17.86	12.01	-1.0	-2	13.
19					13.95	10.87	14.51	11.54	15.33	11.63	15.78	11.55	16.69	12.13	17.59	11.92	1.0	0	13.
21					13.71	10.76	14.36	11.48	15.17	11.56	15.62	11.49	16.53	12.07	17.43	11.87	2.0	1	14.
23					13.47	10.66	14.22	11.42	15.01	11.50	15.46	11.43	16.36	12.01	17.27	11.81	3.0	2	14.
25			13.32	11.21	13.34	10.60	14.15	11.39	14.93	11.47	15.38	11.40	16.28	11.98	17.18	11.79	5.0	4	15.
27			13.09	11.10	13.22	10.55	14.07	11.36	14.85	11.44	15.49	11.44	16.13	11.93			7.0	6	15.
29			12.81	10.97	12.91	10.41	13.75	11.23	14.54	11.31	15.18	11.32	15.81	11.82			9.0	8	16.3
31			12.53	10.83	12.60	10.28	13.43	11.10	14.23	11.19	14.86	11.20	15.50	11.71			11.5	10	16.
33	10.63	9.55	11.45	10.33	12.28	10.14	13.11	10.97	13.91	11.07	14.55	11.08	15.18	11.60			13.5	12	17.
35	10.45	9.46	11.21	10.22	11.97	10.00	12.79	10.84	13.60	10.94	14.23	10.96	14.86	11.49			15.5	14	18.4
37	10.32	9.40	11.03	10.14	11.74	9.90	12.48	10.72	13.22	10.80	13.80	10.80	14.38	11.32			16.5	16	18.
39	10.20	9.34	10.85	10.05	11.51 11.28	9.81	12.17 11.87	10.60 10.48	12.84 12.45	10.65	13.36 12.93	10.64	13.89	11.16 10.99					
41 43	10.07 9.94	9.27	10.67 10.49	9.97 9.89	11.28	9.71	11.87	10.48	12.45	10.50 10.36	12.50	10.48	12.92	10.99					
43	9.75	9.21	10.49	9.89	10.70	9.46	11.10	10.36	11.50	10.36	11.85	10.32	12.92	10.83	-			Г	
50	7.61	7.46	7.79	7.64	8.02	7.86	8.23	8.07	8.40	8.23	8.54	8.37	8.68	8.51				F	٥J

Heating	Mode:	HC				(kW)
Outo	door		Indoor	air temp	erature	;
air te	emp.			°CDB		
°CDB	°CWB	16	18	20	22	24
-19.8	-20	8.07	7.97	7.88	7.78	7.68
-17.7	-18	8.20	8.13	8.05	7.93	7.80
-15.7	-16	9.19	9.09	8.98	8.87	8.76
-13.5	-14	9.52	9.40	9.29	9.18	9.07
-11.5	-12	10.18	10.04	9.90	9.81	9.71
-9.5	-10	10.84	10.68	10.52	10.43	10.35
-7.5	-8	11.50	11.32	11.14	11.06	10.98
-5.5	-6	12.08	11.89	11.71	11.63	11.55
-3.0	-4	12.65	12.47	12.28	12.20	12.11
-1.0	-2	13.23	13.04	12.85	12.77	12.68
1.0	0	13.81	13.62	13.42	13.33	13.24
2.0	1	14.10	13.90	13.71	13.62	13.53
3.0	2	14.46	14.26	14.07	13.98	13.89
5.0	4	15.17	14.98	14.78	14.69	14.60
7.0	6	15.89	15.69	15.50	15.41	15.32
9.0	8	16.31	16.12	15.93	15.85	15.77
11.5	10	16.73	16.55	16.36	16.28	16.21
13.5	12	17.61	17.39	17.18	17.10	17.01
15.5	14	18.48	18.24	18.00	17.91	17.82
16.5	16	18.92	18.67	18.41	18.32	18.22

PJG000Z623 🙆

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed. (Cooling only)
In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

(2) Capacities are based on the following conditions.

Corresponding refrigerant piping length :7.5m Level difference of Zero.

(3) Symbols are as follows
TC :Total cooling capacity (kW)
SHC :Sensible heat capacity (kW)
HC :Heating capacity (kW)

(5) Ceiling susponded type (FDE)

(a) Single type

Cooling Mode

Outdoor unit FDC100VNA-W Model FDE100VNAWVH Indoor unit FDE100VH

0.11							Indo	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
dii tompi	12 °	CWB	14 °C	CWB	16 °C	CWB	18 °0	CWB	19 °C	CWB	20 °C	CWB	22 °(CWB	24 °C	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.02	8.94	11.60	8.97	11.92	8.89	12.55	9.34	13.18	9.14
-10							10.67	8.80	11.23	8.83	11.53	8.75	12.13	9.20	12.73	9.01
-5							10.31	8.66	10.85	8.69	11.35	8.69	12.35	9.27	13.36	9.20
0					8.55	7.54	10.33	8.67	11.22	8.83	11.56	8.76	12.25	9.24	12.93	9.07
5					9.01	7.73	10.41	8.70	11.11	8.79	11.44	8.72	12.09	9.18	12.74	9.01
11					9.41	7.89	10.44	8.71	10.96	8.73	11.36	8.69	12.15	9.20	12.94	9.07
13					9.80	8.05	10.47	8.73	10.81	8.67	11.27	8.66	12.20	9.22	13.13	9.13
15					10.19	8.22	10.50	8.74	10.66	8.62	11.19	8.63	12.26	9.24	13.32	9.19
17					9.83	8.07	10.59	8.77	10.97	8.73	11.40	8.70	12.26	9.24	13.13	9.13
19					10.26	8.25	10.67	8.80	11.27	8.85	11.61	8.78	12.27	9.24	12.94	9.07
21					10.08	8.17	10.56	8.76	11.15	8.80	11.49	8.74	12.15	9.21	12.82	9.03
23					9.90	8.10	10.45	8.72	11.04	8.76	11.37	8.69	12.03	9.17	12.70	9.00
25			9.79	8.53	9.81	8.06	10.40	8.70	10.98	8.74	11.31	8.67	11.97	9.15	12.63	8.98
27			9.62	8.45	9.72	8.02	10.35	8.68	10.92	8.71	11.39	8.70	11.86	9.11		
29			9.42	8.36	9.49	7.93	10.11	8.59	10.69	8.63	11.16	8.62	11.63	9.03		
31			9.21	8.26	9.26	7.83	9.87	8.50	10.46	8.54	10.93	8.54	11.39	8.96		
33	7.82	7.29	8.42	7.91	9.03	7.74	9.64	8.41	10.23	8.46	10.70	8.45	11.16	8.88		
35	7.68	7.23	8.24	7.83	8.80	7.64	9.40	8.32	10.00	8.38	10.46	8.37	10.93	8.81		
37	7.59	7.18	8.11	7.77	8.63	7.57	9.18	8.23	9.72	8.27	10.15	8.26	10.57	8.69		
39	7.50	7.14	7.98	7.72	8.46	7.50	8.95	8.15	9.44	8.17	9.83	8.15	10.22	8.58		
41	7.40	7.10	7.85	7.66	8.29	7.44	8.72	8.06	9.16	8.07	9.51	8.04	9.86	8.47		
43	7.31	7.05	7.72	7.56	8.12	7.37	8.50	7.98	8.88	7.97	9.19	7.93	9.50	8.36		
46	7.17	6.99	7.52	7.37	7.87	7.27	8.16	7.86	8.46	7.82	8.71	7.77	8.97	8.19		
50	5.60	5.49	5.73	5.62	5.90	5.78	6.05	5.93	6.17	6.05	6.28	6.15	6.38	6.26		

SHC -19.8 -20 6.47 6.40 6.32 6.24 6.1 9.14 -17.7 -18 6.52 6.46 6.40 6.30 6.2 9.01 -15.7 -16 7.37 7.29 7.20 7.11 7.0 9.07 -13.5 -14 7.66 7.57 7.47 7.38 7.3 9.01 -9.5 -10 8.80 8.67 8.54 8.47 8.4 9.07 -7.5 -8 9.38 9.23 9.08 9.02 8.9 9.07 -5.5 -6 9.56 9.41 9.26 9.20 9.1 9.07 -1.0 -2 9.92 9.77 9.63 9.57 9.5 9.09 -3.0 -4 9.74 9.59 9.45 9.38 9.3 9.07 1.0 0 10.10 9.96 9.81 9.75 9.6 9.03 3.0 -4 9.0 9.9	(kW)	Heating	Mode:	HC				(kW
VB °CDB °CWB 16 18 20 22 24 SHC -19.8 -20 6.47 6.40 6.32 6.24 6.1 9.01 -17.7 -18 6.52 6.46 6.40 6.30 6.2 9.01 -15.7 -16 7.37 7.29 7.20 7.11 7.0 9.07 -13.5 -14 7.66 7.57 7.47 7.38 7.3 9.01 -9.5 -10 8.80 8.67 8.54 8.47 8.4 9.07 -7.5 -8 9.38 9.23 9.08 9.02 8.9 9.07 -5.5 -6 9.56 9.41 9.26 9.20 9.1 9.09 -3.0 -4 9.74 9.59 9.45 9.38 9.3 9.01 -1.0 -2 9.92 9.77 9.63 9.57 9.5 9.01 -3.0 -4 9.74 9.59		Out	door		Indoor	air temp	erature)
SHC -19.8 -20 6.47 6.40 6.32 6.24 6.1 9.14 -17.7 -18 6.52 6.46 6.40 6.30 6.2 9.01 -15.7 -16 7.37 7.29 7.20 7.11 7.0 9.07 -13.5 -14 7.66 7.57 7.47 7.38 7.3 9.01 -9.5 -10 8.80 8.67 8.54 8.47 8.4 9.07 -7.5 -8 9.38 9.23 9.08 9.02 8.9 9.07 -5.5 -6 9.56 9.41 9.26 9.20 9.1 9.07 -1.0 -2 9.92 9.77 9.63 9.57 9.5 9.09 -3.0 -4 9.74 9.59 9.45 9.38 9.3 9.07 1.0 0 10.10 9.96 9.81 9.75 9.6 9.03 3.0 -4 9.0 9.9	OB .	air te	emp.			°CDB		
-0.14 -17.7 -18 6.52 6.46 6.40 6.30 6.2 9.01 -15.7 -16 7.37 7.29 7.20 7.11 7.0 9.07 -13.5 -14 7.66 7.57 7.47 7.38 7.3 9.01 -9.5 -10 8.80 8.67 8.54 8.47 8.4 9.07 -7.5 -8 9.38 9.23 9.08 9.02 8.9 9.07 -5.5 -6 9.56 9.41 9.26 9.20 9.1 9.09 -3.0 -4 9.74 9.59 9.45 9.38 9.3 9.07 1.0 -2 9.92 9.77 9.63 9.57 9.5 9.03 -3 -4 19.10 9.96 9.81 9.75 9.6 9.03 3.0 2 10.45 10.31 10.17 10.10 10.96 9.81 9.75 9.6 9.81 9.75 9.6	VB	°CDB	°CWB	16	18	20	22	24
-15.7 -16 7.37 7.29 7.20 7.11 7.0 0.20 -13.5 -14 7.66 7.57 7.47 7.38 7.3 0.07 -11.5 -12 8.23 8.12 8.01 7.93 7.8 0.01 -9.5 -10 8.80 8.67 8.54 8.47 8.4 0.07 -7.5 -8 9.38 9.23 9.08 9.02 8.9 0.13 -5.5 -6 9.56 9.41 9.26 9.20 9.1 0.13 -1.0 -2 9.92 9.77 9.63 9.57 9.5 0.13 -1.0 -2 9.92 9.77 9.63 9.57 9.5 0.01 1.0 0 10.10 9.96 9.81 9.75 9.6 0.07 1.0 0 10.19 10.05 9.91 9.84 9.7 0.03 2.0 1 10.45 10.31 10.17	SHC	-19.8	-20	6.47	6.40	6.32	6.24	6.16
0.20 -13.5 -14 7.66 7.57 7.47 7.38 7.3 9.07 -11.5 -12 8.23 8.12 8.01 7.93 7.8 9.01 -9.5 -10 8.80 8.67 8.54 8.47 8.4 9.03 -7.5 -8 9.38 9.23 9.08 9.02 8.9 9.13 -5.5 -6 9.56 9.41 9.20 9.20 9.1 9.13 -1.0 -2 9.92 9.77 9.63 9.57 9.5 9.03 -1.0 -2 9.92 9.77 9.63 9.57 9.5 9.03 2.0 1 10.19 10.05 9.91 9.84 9.7 9.03 3.0 2 10.45 10.31 10.17 10.10 10.10 10.10 10.10 10.10 10.10 10.10 10.10 10.10 10.10 10.10 10.10 10.10 10.10 10.10 10.10<	9.14	-17.7	-18	6.52	6.46	6.40	6.30	6.20
-0.07 -11.5 -12 8.23 8.12 8.01 7.93 7.8 -9.01 -9.5 -10 8.80 8.67 8.54 8.47 8.4 -0.07 -7.5 -8 9.38 9.23 9.08 9.02 8.9 9.13 -5.5 -6 9.56 9.41 9.26 9.20 9.1 9.13 -3.0 -4 9.74 9.59 9.45 9.38 9.3 9.13 -1.0 -2 9.92 9.77 9.63 9.57 9.5 9.07 1.0 0 10.10 9.96 9.81 9.75 9.6 9.03 2.0 1 10.19 10.05 9.91 9.84 9.7 3.00 2 10.45 10.31 10.17 10.10 10.10 10.10 10.10 10.10 10.10 10.10 10.10 10.10 10.10 10.10 10.10 10.10 10.10 10.10 10.10 10.1	9.01	-15.7	-16	7.37	7.29	7.20	7.11	7.02
-9.5 -10 8.80 8.67 8.54 8.47 8.4 9.07 -7.5 -8 9.38 9.23 9.08 9.02 8.9 9.13 -5.5 -6 9.56 9.41 9.26 9.20 9.1 9.19 -3.0 -4 9.74 9.59 9.45 9.38 9.3 9.13 -1.0 -2 9.92 9.77 9.63 9.57 9.5 9.07 1.0 0 10.10 9.96 9.81 9.75 9.6 9.03 3.03 2 10.45 10.31 10.17 10.10 10.10 9.96 9.81 9.84 9.7 9.63 9.94 9.74 9.63 9.94 9.74 9.63 9.94 9.74 9.63 9.94 9.75 9.63 9.94 9.78 9.63 9.94 9.78 9.63 9.94 9.78 9.84 9.73 9.94 9.74 9.94 9.74 9.94 9.74	9.20	-13.5	-14	7.66	7.57	7.47	7.38	7.30
.007 -7.5 -8 9.38 9.23 9.08 9.02 8.9 .0.13 -5.5 -6 9.56 9.41 9.26 9.20 9.1 .0.19 -3.0 -4 9.74 9.59 9.45 9.38 9.3 .0.13 -1.0 -2 9.92 9.77 9.63 9.57 9.5 9.07 1.0 0 10.10 9.96 9.81 9.75 9.6 9.03 2.0 1 10.19 10.05 9.91 9.84 9.7 9.00 3.0 2 10.45 10.31 10.17 10.10 10.0 3.98 5.0 4 10.96 10.82 10.68 10.62 10.3	9.07	-11.5	-12	8.23	8.12	8.01	7.93	7.85
0.13 -5.5 -6 9.56 9.41 9.26 9.20 9.1 9.19 -3.0 -4 9.74 9.59 9.45 9.38 9.3 9.13 -1.0 -2 9.92 9.77 9.63 9.57 9.5 9.07 1.0 0 10.10 9.96 9.81 9.75 9.6 9.03 2.0 1 10.19 10.05 9.91 9.84 9.7 9.00 3.0 2 10.45 10.31 10.17 10.10 10.0 3.98 5.0 4 10.96 10.82 10.68 10.62 10.3	9.01	-9.5	-10	8.80	8.67	8.54	8.47	8.40
0.19 -3.0 -4 9.74 9.59 9.45 9.38 9.3 9.13 -1.0 -2 9.92 9.77 9.63 9.57 9.5 9.07 1.0 0 10.10 9.96 9.81 9.75 9.6 9.03 2.0 1 10.19 10.05 9.91 9.84 9.7 9.00 3.0 2 10.45 10.31 10.17 10.10 10.0 3.98 5.0 4 10.96 10.82 10.68 10.62 10.2	9.07	-7.5	-8	9.38	9.23	9.08	9.02	8.95
0.13 -1.0 -2 9.92 9.77 9.63 9.57 9.5 9.07 1.0 0 10.10 9.96 9.81 9.75 9.6 9.03 2.0 1 10.19 10.05 9.91 9.84 9.7 9.00 3.0 2 10.45 10.31 10.17 10.10 10.0 3.98 5.0 4 10.96 10.82 10.68 10.62 10.2	9.13	-5.5	-6	9.56	9.41	9.26	9.20	9.14
0.07 1.0 0 10.10 9.96 9.81 9.75 9.6 0.03 2.0 1 10.19 10.05 9.91 9.84 9.7 0.00 3.0 2 10.45 10.31 10.17 10.10 10.0 3.98 5.0 4 10.96 10.82 10.68 10.62 10.3	9.19	-3.0	-4	9.74	9.59	9.45	9.38	9.32
0.03 2.0 1 10.19 10.05 9.91 9.84 9.7 0.00 3.0 2 10.45 10.31 10.17 10.10 10.0 3.98 5.0 4 10.96 10.82 10.68 10.62 10.3	9.13	-1.0	-2	9.92	9.77	9.63	9.57	9.50
3.0 2 10.45 10.31 10.17 10.10 10.0 3.98 5.0 4 10.96 10.82 10.68 10.62 10.5	9.07	1.0	0	10.10	9.96	9.81	9.75	9.68
3.98 5.0 4 10.96 10.82 10.68 10.62 10.8	9.03	2.0	1	10.19	10.05	9.91	9.84	9.77
	9.00	3.0	2	10.45	10.31	10.17	10.10	10.03
	3.98	5.0	4	10.96	10.82	10.68	10.62	10.55
7.0 6 11.48 11.34 11.20 11.13 11.0		7.0	6	11.48	11.34	11.20	11.13	11.07
9.0 8 11.79 11.65 11.51 11.45 11.3		9.0	8	11.79	11.65	11.51	11.45	11.39
11.5 10 12.09 11.96 11.82 11.77 11.7		11.5	10	12.09	11.96	11.82	11.77	11.71
13.5 12 12.72 12.57 12.41 12.35 12.2		13.5	12	12.72	12.57	12.41	12.35	12.29
15.5 14 13.35 13.18 13.01 12.94 12.8		15.5	14	13.35	13.18	13.01	12.94	12.88
16.5 16 13.67 13.49 13.31 13.24 13.		16.5	16	13.67	13.49	13.31	13.24	13.17

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PFA004Z110 /Ĥ

Model FDE100VSAWVH

Cooling Mode Outdoo air temp

°CDB

-15 -10

11

19

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41

46

7.17 6.99 Indoor unit FDE100VH

Outdoor unit FDC100VSA-W

Mode															(kW)	Heat	ing Mode	:HC				(kW)
						Inde	oor air t	empera	ture								utdoor		Indoor	air tem	perature	•
18	°CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB	а	r temp.			°CDB		
12	°CWB	14 °	CWB	16 °	CWB	18 °	CWB	19 °C	CWB	20 °	CWB	22 °(CWB	24 °	CWB	°CE	B °CWE	16	18	20	22	24
TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	-19	8 -20	6.47	6.40	6.32	6.24	6.16
	1					11.02	8.94	11.60	8.97	11.92	8.89	12.55	9.34	13.18	9.14	-17	7 -18	6.52	6.46	6.40	6.30	6.20
	1					10.67	8.80	11.23	8.83	11.53	8.75	12.13	9.20	12.73	9.01	-15		7.37	7.29	7.20	7.11	7.02
						10.31	8.66	10.85	8.69	11.35	8.69	12.35	9.27	13.36	9.20	-13	5 -14	7.66	7.57	7.47	7.38	7.30
				8.55	7.54	10.33	8.67	11.22	8.83	11.56	8.76	12.25	9.24	12.93	9.07	-11	5 -12	8.23	8.12	8.01	7.93	7.85
	1			9.01	7.73	10.41	8.70	11.11	8.79	11.44	8.72	12.09	9.18	12.74	9.01	-9.	-10	8.80	8.67	8.54	8.47	8.40
	1			9.41	7.89	10.44	8.71	10.96	8.73	11.36	8.69	12.15	9.20	12.94	9.07	-7.	-8	9.38	9.23	9.08	9.02	8.95
	1			9.80	8.05	10.47	8.73	10.81	8.67	11.27	8.66	12.20	9.22	13.13	9.13	-5.	-6	9.56	9.41	9.26	9.20	9.14
	1			10.19	8.22	10.50	8.74	10.66	8.62	11.19	8.63	12.26	9.24	13.32	9.19	-3.) -4	9.74	9.59	9.45	9.38	9.32
1				9.83	8.07	10.59	8.77	10.97	8.73	11.40	8.70	12.26	9.24	13.13	9.13	-1.) -2	9.92	9.77	9.63	9.57	9.50
1				10.26	8.25	10.67	8.80	11.27	8.85	11.61	8.78	12.27	9.24	12.94	9.07	1.0	0	10.10	9.96	9.81	9.75	9.68
				10.08	8.17	10.56	8.76	11.15	8.80	11.49	8.74	12.15	9.21	12.82	9.03	2.0	1	10.19	10.05	9.91	9.84	9.77
1				9.90	8.10	10.45	8.72	11.04	8.76	11.37	8.69	12.03	9.17	12.70	9.00	3.0	2	10.45	10.31	10.17	10.10	10.03
		9.79	8.53	9.81	8.06	10.40	8.70	10.98	8.74	11.31	8.67	11.97	9.15	12.63	8.98	5.0	4	10.96	10.82	10.68	10.62	10.55
		9.62	8.45	9.72	8.02	10.35	8.68	10.92	8.71	11.39	8.70	11.86	9.11			7.0	6	11.48	11.34	11.20	11.13	11.07
		9.42	8.36	9.49	7.93	10.11	8.59	10.69	8.63	11.16	8.62	11.63	9.03			9.0	8	11.79	11.65	11.51	11.45	11.39
		9.21	8.26	9.26	7.83	9.87	8.50	10.46	8.54	10.93	8.54	11.39	8.96			11.	5 10	12.09	11.96	11.82	11.77	11.71
7.82	7.29	8.42	7.91	9.03	7.74	9.64	8.41	10.23	8.46	10.70	8.45	11.16	8.88			13.	5 12	12.72	12.57	12.41	12.35	12.29
7.68	7.23	8.24	7.83	8.80	7.64	9.40	8.32	10.00	8.38	10.46	8.37	10.93	8.81			15.	5 14	13.35	13.18	13.01	12.94	12.88
7.59	7.18	8.11	7.77	8.63	7.57	9.18	8.23	9.72	8.27	10.15	8.26	10.57	8.69			16.	16	13.67	13.49	13.31	13.24	13.17
7.50	7.14	7.98	7.72	8.46	7.50	8.95	8.15	9.44	8.17	9.83	8.15	10.22	8.58									· <u></u>
7.40	7.10	7.85	7.66	8.29	7.44	8.72	8.06	9.16	8.07	9.51	8.04	9.86	8.47									

Notes(1) These data show average status

Depending on the system control, there may be ranges where the operation is not conducted continuously.

8.16 7.86

These data show the case where the operation frequency of a compressor is fixed. (Cooling only)
In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

(2) Capacities are based on the following conditions.

8.46 7.82

8.71 7.77

8.97 8.19

7.37 7.87

5.73 5.62 5.90 5.78 6.05 5.93

Corresponding refrigerant piping length :7.5m Level difference of Zero.

(3) Symbols are as follows

TC :Total cooling capacity (kW) SHC :Sensible heat capacity (kW) HC :Heating capacity (kW)

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Model FDE125VNAWVH Indoor unit FDE125VH Outdoor unit FDC125VNA-W

Cooling Mo	ode															(kW	
0		Indoor air temperature															
Outdoor air temp.	18 °CDB		21 °CDB		23 °	23 °CDB		26 °CDB		27 °CDB		28 °CDB		31 °CDB		33 °CDB	
	12 °CWB		14 °CWB		16 °CWB		18 °CWB		19 °CWB		20 °CWB		22 °CWB		24 °CWB		
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	
-15							13.77	10.06	14.50	10.12	14.89	10.02	15.68	10.43	16.47	13.73	
-10							13.34	9.88	14.04	9.93	14.41	9.83	15.16	10.24	15.92	13.27	
-5							12.89	9.69	13.56	9.73	14.18	9.74	15.44	10.34	16.69	13.92	
0					10.69	8.43	12.92	9.70	14.03	9.92	14.45	9.85	15.31	10.29	16.16	13.47	
5					11.27	8.68	13.01	9.75	13.89	9.87	14.30	9.79	15.11	10.22	15.93	13.28	
11					11.76	8.90	13.05	9.76	13.70	9.79	14.19	9.75	15.18	10.25	16.17	13.48	
13					12.25	9.11	13.09	9.78	13.51	9.72	14.09	9.71	15.25	10.27	16.41	13.68	
15					12.74	9.33	13.13	9.79	13.32	9.64	13.99	9.67	15.32	10.30	16.65	13.88	
17					12.28	9.13	13.23	9.84	13.71	9.79	14.25	9.77	15.33	10.30	16.41	13.68	
19					12.82	9.37	13.34	9.88	14.09	9.95	14.51	9.87	15.34	10.30	16.17	13.48	
21					12.60	9.27	13.20	9.82	13.94	9.89	14.36	9.81	15.19	10.25	16.02	13.35	
23					12.38	9.17	13.07	9.77	13.80	9.83	14.21	9.75	15.04	10.19	15.87	13.23	
25			12.24	9.68	12.26	9.12	13.00	9.74	13.72	9.80	14.14	9.72	14.97	10.17	15.79	13.17	
27			12.03	9.58	12.15	9.07	12.93	9.71	13.65	9.77	14.24	9.76	14.83	10.12			
29			11.77	9.46	11.87	8.94	12.64	9.59	13.36	9.66	13.95	9.65	14.53	10.02			
31			11.51	9.33	11.58	8.82	12.34	9.47	13.07	9.54	13.66	9.54	14.24	9.91			
33	9.77	8.24	10.52	8.86	11.29	8.69	12.05	9.35	12.79	9.43	13.37	9.43	13.95	9.81			
35	9.60	8.15	10.30	8.76	11.00	8.57	11.75	9.23	12.50	9.32	13.08	9.32	13.66	9.71			
37	9.49	8.10	10.14	8.69	10.79	8.47	11.47	9.12	12.15	9.18	12.68	9.17	13.21	9.56			
39	9.37	8.04	9.97	8.61	10.58	8.38	11.19	9.01	11.80	9.05	12.28	9.03	12.77	9.41			
41	9.25	7.98	9.81	8.53	10.36	8.29	10.91	8.90	11.45	8.91	11.89	8.88	12.32	9.26			
43	9.14	7.92	9.64	8.46	10.15	8.20	10.62	8.78	11.10	8.78	11.49	8.74	11.88	9.12			
46	8.96	7.84	9.40	8.35	9.83	8.07	10.20	8.62	10.57	8.58	10.89	8.52	11.21	8.90			
50	7.00	6.86	7.16	7.02	7.37	7.07	7.57	7.41	7.72	7.56	7.85	7.48	7.98	7.82			

Heating Mode: HC (kW)										
Out	door	Indoor air temperature								
air te	emp.	°CDB								
°CDB	°CWB	16	18	20	22	24				
-19.8	-20	7.60	7.51	7.42	7.33	7.24				
-17.7	-18	7.80	7.73	7.66	7.54	7.42				
-15.7	-16	8.66	8.56	8.46	8.36	8.25				
-13.5	-14	8.95	8.84	8.73	8.63	8.53				
-11.5	-12	9.52	9.39	9.26	9.17	9.08				
-9.5	-10	10.10	9.95	9.80	9.72	9.64				
-7.5	-8	10.67	10.50	10.34	10.26	10.19				
-5.5	-6	11.13	10.96	10.79	10.72	10.64				
-3.0	-4	11.59	11.42	11.25	11.17	11.09				
-1.0	-2	12.05	11.87	11.70	11.62	11.54				
1.0	0	12.50	12.33	12.16	12.07	11.99				
2.0	1	12.73	12.56	12.38	12.30	12.22				
3.0	2	13.06	12.88	12.71	12.62	12.54				
5.0	4	13.70	13.53	13.35	13.27	13.19				
7.0	6	14.35	14.18	14.00	13.92	13.84				
9.0	8	14.73	14.56	14.39	14.31	14.24				
11.5	10	15.11	14.94	14.78	14.71	14.64				
13.5	12	15.90	15.71	15.52	15.44	15.37				
15.5	14	16.69	16.48	16.26	16.18	16.09				
16.5	16	17.09	16.86	16.63	16.54	16.46				

PFA004Z110

Model FDE125VSAWVH Indoor unit FDE125VH Outdoor unit FDC125VSA-W

Cooling Mode (kW)																	
Outdoor air temp.		Indoor air temperature															
	18 °CDB		21 °CDB		23 °CDB		26 °	26 °CDB		27 °CDB		28 °CDB		31 °CDB		33 °CDB	
	12 °CWB		14 °CWB		16 °CWB		18 °CWB		19 °CWB		20 °CWB		22 °CWB		24 °CWB		
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	
-15							13.77	10.06	14.50	10.12	14.89	10.02	15.68	10.43	16.47	13.73	
-10							13.34	9.88	14.04	9.93	14.41	9.83	15.16	10.24	15.92	13.27	
-5							12.89	9.69	13.56	9.73	14.18	9.74	15.44	10.34	16.69	13.92	
0					10.69	8.43	12.92	9.70	14.03	9.92	14.45	9.85	15.31	10.29	16.16	13.47	
5					11.27	8.68	13.01	9.75	13.89	9.87	14.30	9.79	15.11	10.22	15.93	13.28	
11					11.76	8.90	13.05	9.76	13.70	9.79	14.19	9.75	15.18	10.25	16.17	13.48	
13					12.25	9.11	13.09	9.78	13.51	9.72	14.09	9.71	15.25	10.27	16.41	13.68	
15					12.74	9.33	13.13	9.79	13.32	9.64	13.99	9.67	15.32	10.30	16.65	13.88	
17					12.28	9.13	13.23	9.84	13.71	9.79	14.25	9.77	15.33	10.30	16.41	13.68	
19					12.82	9.37	13.34	9.88	14.09	9.95	14.51	9.87	15.34	10.30	16.17	13.48	
21					12.60	9.27	13.20	9.82	13.94	9.89	14.36	9.81	15.19	10.25	16.02	13.35	
23					12.38	9.17	13.07	9.77	13.80	9.83	14.21	9.75	15.04	10.19	15.87	13.23	
25			12.24	9.68	12.26	9.12	13.00	9.74	13.72	9.80	14.14	9.72	14.97	10.17	15.79	13.17	
27			12.03	9.58	12.15	9.07	12.93	9.71	13.65	9.77	14.24	9.76	14.83	10.12			
29			11.77	9.46		8.94	12.64	9.59	13.36	9.66	13.95	9.65	14.53	10.02			
31			11.51	9.33	11.58	8.82	12.34	9.47	13.07	9.54	13.66	9.54	14.24	9.91			
33	9.77	8.24	10.52	8.86	11.29	8.69	12.05	9.35	12.79	9.43	13.37	9.43	13.95	9.81			
35	9.60	8.15	10.30	8.76	11.00	8.57	11.75	9.23	12.50	9.32	13.08	9.32	13.66	9.71			
37	9.49	8.10	10.14	8.69	10.79	8.47	11.47	9.12	12.15	9.18	12.68	9.17	13.21	9.56			
39	9.37	8.04	9.97	8.61	10.58	8.38	11.19	9.01	11.80	9.05	12.28	9.03	12.77	9.41			
41	9.25	7.98	9.81	8.53	10.36	8.29	10.91	8.90	11.45	8.91	11.89	8.88	12.32	9.26			
43	9.14	7.92	9.64	8.46	10.15	8.20	10.62	8.78	11.10	8.78	11.49	8.74	11.88	9.12			
46	8.96	7.84	9.40	8.35	9.83	8.07	10.20	8.62	10.57	8.58	10.89	8.52	11.21	8.90			
50	7.00	6.86	7.16	7.02	7.37	7.07	7.57	7.41	7.72	7.56	7.85	7.48	7.98	7.82			

Heating Mode : HC (kW)										
Outo	door	Indoor air temperature								
air te	emp.	°CDB								
°CDB	°CWB	16	18	20	22	24				
-19.8	-20	7.60	7.51	7.42	7.33	7.24				
-17.7	-18	7.80	7.73	7.66	7.54	7.42				
-15.7	-16	8.66	8.56	8.46	8.36	8.25				
-13.5	-14	8.95	8.84	8.73	8.63	8.53				
-11.5	-12	9.52	9.39	9.26	9.17	9.08				
-9.5	-10	10.10	9.95	9.80	9.72	9.64				
-7.5	-8	10.67	10.50	10.34	10.26	10.19				
-5.5	-6	11.13	10.96	10.79	10.72	10.64				
-3.0	-4	11.59	11.42	11.25	11.17	11.09				
-1.0	-2	12.05	11.87	11.70	11.62	11.54				
1.0	0	12.50	12.33	12.16	12.07	11.99				
2.0	1	12.73	12.56	12.38	12.30	12.22				
3.0	2	13.06	12.88	12.71	12.62	12.54				
5.0	4	13.70	13.53	13.35	13.27	13.19				
7.0	6	14.35	14.18	14.00	13.92	13.84				
9.0	8	14.73	14.56	14.39	14.31	14.24				
11.5	10	15.11	14.94	14.78	14.71	14.64				
13.5	12	15.90	15.71	15.52	15.44	15.37				
15.5	14	16.69	16.48	16.26	16.18	16.09				
16.5	16	17.09	16.86	16.63	16.54	16.46				

PFA004Z110 /A

Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously. These data show the case where the operation frequency of a compressor is fixed. (Cooling only)

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

(2) Capacities are based on the following conditions.

Corresponding refrigerant piping length: 7.5m

Level difference of Zero.

(3) Symbols are as follows
TC :Total cooling capacity (kW)
SHC :Sensible heat capacity (kW) HC :Heating capacity (kW)

PFA004Z110 ⚠

Indoor unit FDE140VH Outdoor unit FDC140VNA-W Model FDE140VNAWVH (kW) (kW) ooling Mod Indoor air temperature Indoor air temperature Outdoor Outdoo 21 °CDB 23 °CDB 28 °CDB 33 °CDB air temp 18 °CDB 27 °CDB 31 °CDB °CDB air temp 12 °CWB 14 °CWB 16 °CWB 18 °CWB 19 °CWB 20 °CWB 22 °CWB 24 °CWB CDB CWB 16 18 20 24 °CDB -19.8 8.07 7.88 7.68 TC TC SHC -20 7.97 7.78 SHC 14.99 10.84 15.78 10.90 16.21 10.80 17.06 11.22 17.92 10.96 -17.7 -18 8.20 8.13 8.05 7.93 7.80 -10 17.32 15.27 10.69 15.68 10.59 16.50 11.02 10.76 8.98 8.87 8.76 14.51 10.64 -15.7 -16 9.19 9.09 14.03 10.44 14.75 10.48 15.43 10.49 16.80 11.13 18.16 11.04 -13.5 -14 9.52 9.40 9.29 9.18 9.07 0 11.63 9.08 14.05 10.45 15.26 10.69 15.73 10.61 11.07 10.18 10.04 9.90 9.81 12.26 9.35 14.16 10.49 15.11 10.63 15.56 10.54 16.44 11.00 17.33 10.76 -9.5 10.84 10.68 10.52 10.43 10.35 11 12.79 9.58 15.44 10.50 11.06 10.98 14.20 10.51 14.91 10.54 16.52 11.02 17.59 10.85 -7.5 -8 11.50 11.32 11.14 13 10.94 13.33 9.82 14.24 10.53 14.70 10.46 15.33 10.45 16.59 11.05 12.08 11.63 15 13.86 10.06 14.29 10.54 14.50 10.38 15.22 10.41 16.67 11.08 -3.0 12.65 12.47 12.28 12.11 17 13.37 9.84 14.40 10.59 14.91 10.55 15.50 10.52 16.68 11.08 17.86 10.94 -1.0 13.23 13.04 12.85 12.77 12.68 19 1.0 0 13.33 13.24 13.95 10.10 14.51 10.64 15.33 10.72 15.78 10.63 16.69 11.09 17.59 10.85 13.81 13.62 13.42 16.53 11.03 13.71 9.99 14.36 10.58 15.17 10.65 15.62 10.57 1 14.10 13.90 13.71 13.62 13.53 21 17.43 10.80 2.0 23 13.47 9.88 14.22 10.52 15.01 10.59 15.46 10.50 16.36 10.97 17.27 10.74 3.0 14.46 14.26 14.07 13.98 13.89 15.17 25 27 13.32 10.44 13.34 9.83 14.15 10.49 14.93 10.55 15.38 10.47 16.28 10.94 17.18 10.72 5.0 4 14.98 14.78 14.69 14.60 13.22 9.78 14.07 10.45 13.09 10.33 14.85 10.52 15.49 10.51 16.13 10.89 29 12.81 10.19 12.91 9.64 13.75 10.32 14.54 10.40 15.18 10.39 15.81 10.77 9.0 8 16.31 16.12 15.93 15.85 15.77 31 12.53 10.06 12.60 9.50 13.43 10.19 14.23 10.27 14.86 10.27 15.50 10.66 11.5 10 16.73 16.55 16.36 16.28 16.21 17.61 17.39 17.18 17.10 17.01 33 35 10.63 8.87 11.45 9.54 12.28 9.36 13.11 10.06 13.91 10.15 14.55 10.15 15.18 10.55 13.5 12 10.45 8.78 11.21 9.43 11.97 9.22 12.79 9.93 13.60 10.02 14.23 10.03 14.86 10.44 14 18.48 18.24 18.00 17.91 37 10.32 8.72 11.03 9.35 11.74 9.12 12.48 9.80 13.22 9.87 13.80 9.87 14.38 10.27 18.92 18.67 18.41 18.32 18.22 39 10.20 8.66 10.85 9.26 11.51 9.02 12.17 9.68 12.84 9.73 13.36 9.71 13.89 10.11 41 11.28 8.92 11.87 9.56 12.45 9.58 12.93 9.55 13.41 9.95 10.07 8.60 10.67 9.18 43 11.04 8.82 12.07 9.44 9.94 8.53 10.49 9.10 11.56 9.44 12.50 9.39 12.92 9.78 46 9.75 8.44 10.22 8.98 10.70 8.68 11.10 9.26 11.50 9.22 11.85 9.15 12.20 9.55 PFA004Z110 /A 7.79 7.64 8.02 7.59 8.23 8.07 8.40 8.11 8.54 8.02 8.68 8.45

Cooling M	ode															(kW)	Heating	Mode:	НС				(kV
							Indo	oor air t	empera	ture							Out			Indoor	air temp	erature	
Outdoor	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB	air te	emp.			°CDB		
ir temp.	12 °C	CWB	14 °(CWB	16 °C	CWB	18 °C	CWB	19 °	CWB	20 °	CWB	22 °(CWB	24 °(CWB	°CDB	°CWB	16	18	20	22	24
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	-19.8	-20	8.07	7.97	7.88	7.78	7.68
-15							14.99	10.84	15.78	10.90	16.21	10.80	17.06	11.22	17.92	10.96	-17.7	-18	8.20	8.13	8.05	7.93	7.80
-10							14.51	10.64	15.27	10.69	15.68	10.59	16.50	11.02	17.32	10.76	-15.7	-16	9.19	9.09	8.98	8.87	8.76
-5							14.03	10.44	14.75	10.48	15.43	10.49	16.80	11.13	18.16	11.04	-13.5	-14	9.52	9.40	9.29	9.18	9.07
0					11.63	9.08	14.05	10.45	15.26	10.69	15.73	10.61	16.65	11.07	17.58	10.85	-11.5	-12	10.18	10.04	9.90	9.81	9.71
5					12.26	9.35	14.16	10.49	15.11	10.63	15.56	10.54	16.44	11.00	17.33	10.76	-9.5	-10	10.84	10.68	10.52	10.43	10.35
11					12.79	9.58	14.20	10.51	14.91	10.54	15.44	10.50	16.52	11.02	17.59	10.85	-7.5	-8	11.50	11.32	11.14	11.06	10.98
13					13.33	9.82	14.24	10.53	14.70	10.46	15.33	10.45	16.59	11.05	17.86	10.94	-5.5	-6	12.08	11.89	11.71	11.63	11.55
15					13.86	10.06	14.29	10.54	14.50	10.38	15.22	10.41	16.67	11.08	18.12	11.03	-3.0	-4	12.65	12.47	12.28	12.20	12.11
17					13.37	9.84	14.40	10.59	14.91	10.55	15.50	10.52	16.68	11.08	17.86	10.94	-1.0	-2	13.23	13.04	12.85	12.77	12.68
19					13.95	10.10	14.51	10.64	15.33	10.72	15.78	10.63	16.69	11.09	17.59	10.85	1.0	0	13.81	13.62	13.42	13.33	13.24
21					13.71	9.99	14.36	10.58	15.17	10.65	15.62	10.57	16.53	11.03	17.43	10.80	3.0	2	14.10	13.90 14.26	13.71	13.62 13.98	13.53
_			10.00	10.44	13.47 13.34	9.88	14.22 14.15	10.52	15.01 14.93	10.59 10.55	15.46 15.38	10.50 10.47	16.36 16.28	10.97	17.27 17.18	10.74	5.0		14.46 15.17	14.26	14.07	14.69	13.89
25 27			13.32	10.44	13.34	9.83	14.15	10.49	14.93	10.55	15.49	10.47	16.13	10.94	17.18	10.72	7.0	4 6	15.17		15.50	15.41	14.60
29			12.81	10.33	12.91	9.76	13.75	10.43	14.65	10.32	15.18	10.31	15.81	10.89			9.0	8	16.31	16.12	15.93	15.85	15.32
31			12.53	10.13	12.60	9.50	13.43	10.32	14.23	10.40	14.86	10.33	15.50	10.77			11.5	10	16.73	16.55	16.36	16.28	16.21
33	10.63	8.87	11.45	9.54	12.28	9.36	13.11	10.06	13.91	10.15	14.55	10.15	15.18	10.55			13.5	12	17.61	17.39	17.18	17.10	17.01
35	10.45	8.78	11.21	9.43	11.97	9.22	12.79	9.93	13.60	10.02	14.23	10.03	14.86	10.44			15.5	14	18.48	18.24	18.00	17.91	17.82
37	10.32	8.72	11.03	9.35	11.74	9.12	12.48	9.80	13.22	9.87	13.80	9.87	14.38	10.27			16.5	16	18.92	18.67	18.41	18.32	18.22
39	10.20	8.66	10.85	9.26	11.51	9.02	12.17	9.68	12.84	9.73	13.36	9.71	13.89	10.11									
41	10.07	8.60	10.67	9.18	11.28	8.92	11.87	9.56	12.45	9.58	12.93	9.55	13.41	9.95									
43	9 94	8 53	10 49	9 10	11 04	8.82	11 56	0.44	12.07	0.44	12.50	9.39	12 92	0.78									

11.85 9.15 12.20 9.55

8.54 8.02 8.68 8.45

Notes(1) These data show average status

46

9.75 8.44

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed. (Cooling only)

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency. (2) Capacities are based on the following conditions.

11.50 9.22

10.22 8.98 10.70 8.68 11.10 9.26

7.79 7.64 8.02 7.59 8.23 8.07 8.40 8.11

Corresponding refrigerant piping length :7.5m Level difference of Zero.

(3) Symbols are as follows

TC :Total cooling capacity (kW) SHC :Sensible heat capacity (kW) HC :Heating capacity (kW)

(b) Twin type

Model FDE100VNAWPVH Indoor unit FDE50VH (2 units) Outdoor unit FDC100VNA-W Cooling Mode

							Inde	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
un tomp.	12 °	CWB	14 °	CWB	16 °	CWB	18 °	CWB	19 °C	CWB	20 °C	CWB	22 °	CWB	24 °(CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.02	8.10	11.60	8.14	11.92	8.07	12.55	8.40	13.18	8.21
-10							10.67	7.96	11.23	7.99	11.53	7.92	12.13	8.25	12.73	8.06
-5							10.31	7.81	10.85	7.84	11.35	7.85	12.35	8.33	13.36	8.27
0					8.55	6.79	10.33	7.82	11.22	7.99	11.56	7.93	12.25	8.29	12.93	8.13
5					9.01	6.99	10.41	7.85	11.11	7.95	11.44	7.88	12.09	8.24	12.74	8.07
11					9.41	7.16	10.44	7.86	10.96	7.89	11.36	7.85	12.15	8.26	12.94	8.13
13					9.80	7.34	10.47	7.88	10.81	7.83	11.27	7.82	12.20	8.28	13.13	8.19
15					10.19	7.51	10.50	7.89	10.66	7.77	11.19	7.79	12.26	8.30	13.32	8.25
17					9.83	7.35	10.59	7.92	10.97	7.89	11.40	7.87	12.26	8.30	13.13	8.19
19					10.26	7.54	10.67	7.96	11.27	8.01	11.61	7.95	12.27	8.30	12.94	8.13
21					10.08	7.46	10.56	7.91	11.15	7.96	11.49	7.90	12.15	8.26	12.82	8.09
23					9.90	7.38	10.45	7.87	11.04	7.92	11.37	7.86	12.03	8.22	12.70	8.05
25			9.79	7.79	9.81	7.34	10.40	7.85	10.98	7.89	11.31	7.83	11.97	8.20	12.63	8.03
27			9.62	7.71	9.72	7.30	10.35	7.82	10.92	7.87	11.39	7.86	11.86	8.16		
29			9.42	7.61	9.49	7.20	10.11	7.73	10.69	7.78	11.16	7.78	11.63	8.07		
31			9.21	7.51	9.26	7.10	9.87	7.63	10.46	7.69	10.93	7.69	11.39	7.99		
33	7.82	6.63	8.42	7.14	9.03	7.00	9.64	7.53	10.23	7.60	10.70	7.60	11.16	7.91		
35	7.68	6.56	8.24	7.06	8.80	6.90	9.40	7.44	10.00	7.51	10.46	7.51	10.93	7.83		
37	7.59	6.52	8.11	7.00	8.63	6.83	9.18	7.35	9.72	7.40	10.15	7.39	10.57	7.71		
39	7.50	6.47	7.98	6.94	8.46	6.75	8.95	7.26	9.44	7.29	9.83	7.28	10.22	7.59		
41	7.40	6.43	7.85	6.88	8.29	6.68	8.72	7.17	9.16	7.19	9.51	7.16	9.86	7.47		
43	7.31	6.38	7.72	6.82	8.12	6.61	8.50	7.09	8.88	7.08	9.19	7.05	9.50	7.36		
46	7.17	6.31	7.52	6.73	7.87	6.50	8.16	6.96	8.46	6.93	8.71	6.88	8.97	7.18		
50	5.60	5.40	5.73	5.62	5 90	5.71	6.05	5.03	6.17	6.05	6.28	6.05	6 38	6.26		

(kW)		door		Indoor	air temp	erature	
_		emp.		ilidool		Crature	,
OB	all te	emp.			°CDB		
٧B	°CDB	°CWB	16	18	20	22	24
SHC	-19.8	-20	6.47	6.40	6.32	6.24	6.16
8.21	-17.7	-18	6.52	6.46	6.40	6.30	6.20
3.06	-15.7	-16	7.37	7.29	7.20	7.11	7.02
3.27	-13.5	-14	7.66	7.57	7.47	7.38	7.30
8.13	-11.5	-12	8.23	8.12	8.01	7.93	7.85
3.07	-9.5	-10	8.80	8.67	8.54	8.47	8.40
3.13	-7.5	-8	9.38	9.23	9.08	9.02	8.95
3.19	-5.5	-6	9.56	9.41	9.26	9.20	9.14
3.25	-3.0	-4	9.74	9.59	9.45	9.38	9.32
3.19	-1.0	-2	9.92	9.77	9.63	9.57	9.50
8.13	1.0	0	10.10	9.96	9.81	9.75	9.68
8.09	2.0	1	10.19	10.05	9.91	9.84	9.77
3.05	3.0	2	10.45	10.31	10.17	10.10	10.03
3.03	5.0	4	10.96	10.82	10.68	10.62	10.55
	7.0	6	11.48	11.34	11.20	11.13	11.07
	9.0	8	11.79	11.65	11.51	11.45	11.39
	11.5	10	12.09	11.96	11.82	11.77	11.71
	13.5	12	12.72	12.57	12.41	12.35	12.29
	15.5	14	13.35	13.18	13.01	12.94	12.88
	16.5	16	13.67	13.49	13.31	13.24	13.17

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Model FDE100VSAWPVH

Indoor unit FDE50VH (2 units)

Outdoor unit FDC100VSA-W

Cooling M	lode							,	,							(kW
							Inde	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26°	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
ali terrip.	12 °	CWB	14 °	CWB	16 °	CWB	18 °C	CWB	19 °0	CWB	20 °(CWB	22 °	CWB	24 °C	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.02	8.10	11.60	8.14	11.92	8.07	12.55	8.40	13.18	8.21
-10							10.67	7.96	11.23	7.99	11.53	7.92	12.13	8.25	12.73	8.06
-5							10.31	7.81	10.85	7.84	11.35	7.85	12.35	8.33	13.36	8.27
0					8.55	6.79	10.33	7.82	11.22	7.99	11.56	7.93	12.25	8.29	12.93	8.13
5					9.01	6.99	10.41	7.85	11.11	7.95	11.44	7.88	12.09	8.24	12.74	8.07
11					9.41	7.16	10.44	7.86	10.96	7.89	11.36	7.85	12.15	8.26	12.94	8.13
13					9.80	7.34	10.47	7.88	10.81	7.83	11.27	7.82	12.20	8.28	13.13	8.19
15					10.19	7.51	10.50	7.89	10.66	7.77	11.19	7.79	12.26	8.30	13.32	8.25
17					9.83	7.35	10.59	7.92	10.97	7.89	11.40	7.87	12.26	8.30	13.13	8.19
19					10.26	7.54	10.67	7.96	11.27	8.01	11.61	7.95	12.27	8.30	12.94	8.13
21					10.08	7.46	10.56	7.91	11.15	7.96	11.49	7.90	12.15	8.26	12.82	8.09
23					9.90	7.38	10.45	7.87	11.04	7.92	11.37	7.86	12.03	8.22	12.70	8.05
25			9.79	7.79	9.81	7.34	10.40	7.85	10.98	7.89	11.31	7.83	11.97	8.20	12.63	8.03
27			9.62	7.71	9.72	7.30	10.35	7.82	10.92	7.87	11.39	7.86	11.86	8.16		
29			9.42	7.61	9.49	7.20	10.11	7.73	10.69	7.78	11.16	7.78	11.63	8.07		
31			9.21	7.51	9.26	7.10	9.87	7.63	10.46	7.69	10.93	7.69	11.39	7.99		
33	7.82	6.63	8.42	7.14	9.03	7.00	9.64	7.53	10.23	7.60	10.70	7.60	11.16	7.91		
35	7.68	6.56	8.24	7.06	8.80	6.90	9.40	7.44	10.00	7.51	10.46	7.51	10.93	7.83		
37	7.59	6.52	8.11	7.00	8.63	6.83	9.18	7.35	9.72	7.40	10.15	7.39	10.57	7.71		
39	7.50	6.47	7.98	6.94	8.46	6.75	8.95	7.26	9.44	7.29	9.83	7.28	10.22	7.59		
41	7.40	6.43	7.85	6.88	8.29	6.68	8.72	7.17	9.16	7.19	9.51	7.16	9.86	7.47		
43	7.31	6.38	7.72	6.82	8.12	6.61	8.50	7.09	8.88	7.08	9.19	7.05	9.50	7.36		
46	7.17	6.31	7.52	6.73	7.87	6.50	8.16	6.96	8.46	6.93	8.71	6.88	8.97	7.18		
50	5.60	5.49	5.73	5.62	5.90	5.71	6.05	5.93	6.17	6.05	6.28	6.05	6.38	6.26		

(kW)		Heating	Mode:	НС				(kW)
		Out	door		Indoor	air temp	erature	:
DВ		air te	emp.			°CDB		
VB		°CDB	°CWB	16	18	20	22	24
SHC		-19.8	-20	6.47	6.40	6.32	6.24	6.16
3.21		-17.7	-18	6.52	6.46	6.40	6.30	6.20
3.06	Ш	-15.7	-16	7.37	7.29	7.20	7.11	7.02
3.27	Ш	-13.5	-14	7.66	7.57	7.47	7.38	7.30
3.13	Ш	-11.5	-12	8.23	8.12	8.01	7.93	7.85
3.07	Ш	-9.5	-10	8.80	8.67	8.54	8.47	8.40
3.13	Ш	-7.5	-8	9.38	9.23	9.08	9.02	8.95
3.19	Ш	-5.5	-6	9.56	9.41	9.26	9.20	9.14
3.25	Ш	-3.0	-4	9.74	9.59	9.45	9.38	9.32
3.19	Ш	-1.0	-2	9.92	9.77	9.63	9.57	9.50
3.13	Ш	1.0	0	10.10	9.96	9.81	9.75	9.68
3.09	Ш	2.0	1	10.19	10.05	9.91	9.84	9.77
3.05	Ш	3.0	2	10.45	10.31	10.17	10.10	10.03
3.03	Ш	5.0	4	10.96	10.82	10.68	10.62	10.55
	Ш	7.0	6	11.48	11.34	11.20	11.13	11.07
	Ш	9.0	8	11.79	11.65	11.51	11.45	11.39
		11.5	10	12.09	11.96	11.82	11.77	11.71
	П	13.5	12	12.72	12.57	12.41	12.35	12.29
		15.5	14	13.35	13.18	13.01	12.94	12.88
		16.5	16	13.67	13.49	13.31	13.24	13.17

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Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed. (Cooling only)
In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

(2) Capacities are based on the following conditions.

(2) Capacities are based on the following condition
 Corresponding refrigerant piping length :7.5m
 Level difference of Zero.

(3) Symbols are as follows
 TC :Total cooling capacity (kW)
 SHC :Sensible heat capacity (kW)
 HC :Heating capacity (kW)

Model FDE125VNAWPVH Indoor unit FDE60VH (2 units) Outdoor unit FDC125VNA-W

Cooling Mo	ode															(kW)
0.44.							Inde	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
all terrip.	12 °C	CWB	14 °(CWB	16 °	CWB	18 °	CWB	19 °	CWB	20 °	CWB	22 °	CWB	24 °(CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							13.77	11.17	14.50	11.21	14.89	11.12	15.68	11.67	16.47	13.73
-10							13.34	11.00	14.04	11.04	14.41	10.94	15.16	11.50	15.92	13.27
-5							12.89	10.83	13.56	10.86	14.18	10.86	15.44	11.59	16.69	13.92
0					10.69	9.43	12.92	10.84	14.03	11.04	14.45	10.96	15.31	11.55	16.16	13.47
5					11.27	9.66	13.01	10.88	13.89	10.98	14.30	10.90	15.11	11.48	15.93	13.28
11					11.76	9.86	13.05	10.89	13.70	10.91	14.19	10.86	15.18	11.50	16.17	13.48
13					12.25	10.07	13.09	10.91	13.51	10.84	14.09	10.83	15.25	11.53	16.41	13.68
15					12.74	10.27	13.13	10.92	13.32	10.77	13.99	10.79	15.32	11.55	16.65	13.88
17					12.28	10.08	13.23	10.96	13.71	10.91	14.25	10.88	15.33	11.55	16.41	13.68
19					12.82	10.31	13.34	11.00	14.09	11.06	14.51	10.97	15.34	11.56	16.17	13.48
21					12.60	10.21	13.20	10.95	13.94	11.00	14.36	10.92	15.19	11.51	16.02	13.35
23					12.38	10.12	13.07	10.90	13.80	10.95	14.21	10.87	15.04	11.46	15.87	13.23
25			12.24	10.66	12.26	10.08	13.00	10.87	13.72	10.92	14.14	10.84	14.97	11.43	15.79	13.17
27			12.03	10.56	12.15	10.03	12.93	10.85	13.65	10.89	14.24	10.88	14.83	11.39		
29			11.77	10.44	11.87	9.91	12.64	10.73	13.36	10.79	13.95	10.77	14.53	11.29		
31			11.51	10.33	11.58	9.79	12.34	10.62	13.07	10.68	13.66	10.67		11.20		
33	9.77	9.11	10.52	9.89	11.29	9.67		10.51	12.79	10.57	13.37	10.57		11.10		
35	9.60	9.03	10.30	9.79	11.00	9.55	11.75	10.40	12.50	10.47	13.08	10.47	13.66	11.01		
37	9.49	8.98	10.14	9.72	10.79	9.47	11.47	10.29	12.15	10.34	12.68	10.33	_	10.87		
39	9.37	8.92	9.97	9.65	10.58	9.38	11.19	10.18	11.80	10.22	12.28	10.19	12.77	10.73		
41	9.25	8.87	9.81	9.57	10.36	9.30	10.91	10.08	11.45	10.09	11.89	10.05	12.32	10.59		
43	9.14	8.82	9.64	9.45	10.15	9.21	10.62	9.98	11.10	9.96	11.49	9.92		10.45		
46	8.96	8.73	9.40	9.21	9.83	9.08	10.20	9.82	10.57	9.78	10.89	9.71	11.21	10.24		
50	7.00	6.86	7.16	7.02	7.37	7.22	7.57	7.41	7.72	7.56	7.85	7.69	7.98	7.82		

Heating	Mode:	HC				(kW)
Out	door		Indoor	air temp	erature	;
air te	emp.			°CDB		
°CDB	°CWB	16	18	20	22	24
-19.8	-20	7.60	7.51	7.42	7.33	7.24
-17.7	-18	7.80	7.73	7.66	7.54	7.42
-15.7	-16	8.66	8.56	8.46	8.36	8.25
-13.5	-14	8.95	8.84	8.73	8.63	8.53
-11.5	-12	9.52	9.39	9.26	9.17	9.08
-9.5	-10	10.10	9.95	9.80	9.72	9.64
-7.5	-8	10.67	10.50	10.34	10.26	10.19
-5.5	-6	11.13	10.96	10.79	10.72	10.64
-3.0	-4	11.59	11.42	11.25	11.17	11.09
-1.0	-2	12.05	11.87	11.70	11.62	11.54
1.0	0	12.50	12.33	12.16	12.07	11.99
2.0	1	12.73	12.56	12.38	12.30	12.22
3.0	2	13.06	12.88	12.71	12.62	12.54
5.0	4	13.70	13.53	13.35	13.27	13.19
7.0	6	14.35	14.18	14.00	13.92	13.84
9.0	8	14.73	14.56	14.39	14.31	14.24
11.5	10	15.11	14.94	14.78	14.71	14.64
13.5	12	15.90	15.71	15.52	15.44	15.37
15.5	14	16.69	16.48	16.26	16.18	16.09
16.5	16	17.09	16.86	16.63	16.54	16.46

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Model FDE125VSAWPVH Indoor unit FDE60VH (2 units) Outdoor unit FDC125VSA-W

Cooling Mod

Indoor air temperature Outdoo 18 °CDB 21 °CDB 23 °CDB 26 °CDB 27 °CDB 28 °CDB 31 °CDB 33 °CDB air temp 12 °CWB 14 °CWB 16 °CWB 18 °CWB 19 °CWB 20 °CWB 22 °CWB 24 °CWB °CDB TC SHC -15 13.77 11.17 14.50 11.21 14.89 11.12 15.68 11.67 16.47 13.73 14.04 11.04 -10 13.34 11.00 14.41 10.94 15.16 11.50 15.92 13.27 13.56 10.86 14.18 10.86 15.44 11.59 16.69 13.92 12.89 10.83 0 10.69 9.43 10.84 14.03 11.04 14.45 10.96 15.31 11.55 16.16 13.47 12.92 11.27 9.66 14.30 10.90 15.11 11.48 15.93 13.28 5 13.01 13.89 10.98 11 11.76 9.86 10.89 13.70 10.91 14.19 10.86 15.18 11.50 16.17 13.48 13 12.25 10.07 13.09 10.91 13.51 10.84 14.09 10.83 15.25 11.53 16.41 13.68 12.74 10.27 13.32 10.77 13.99 10.79 15.32 11.55 16.65 13.88 15 13.13 10.92 17 13.71 10.91 16.41 13.68 12.28 10.08 13.23 10.96 14.25 10.88 15.33 11.55 19 12.82 10.31 13.34 11.00 14.09 11.06 14.51 | 10.97 | 15.34 | 11.56 | 16.17 | 13.48 13.94 11.00 15.19 23 12.38 10.12 13 07 10.90 13.80 10.95 14.21 10.87 15.04 11.46 15.87 13.23 25 12.24 10.66 12.26 10.08 13.00 10.87 13.72 10.92 14.14 10.84 14.97 11.43 15.79 13.17 12.03 10.56 12.15 10.03 12.93 10.85 13.65 10.89 14.24 10.88 14.83 11.39 29 11.77 10.44 11.87 9.91 12.64 10.73 13.36 10.79 13.95 10.77 14.53 11.29 31 11.51 9.79 13.07 10.68 13.66 10.67 33 9.77 9.11 10.52 9.89 11.29 9.67 10.51 12.79 10.57 13.37 10.57 13.95 11.10 35 9.60 9.03 10.30 9.79 11.00 9.55 11.75 10.40 12.50 10.47 13.08 10.47 13.66 37 9.49 8.98 10.14 9.72 10.79 9.47 11.47 10.29 12.15 10.34 12.68 10.33 13.21 10.87 39 9.37 8.92 9.97 9.65 10.58 9.38 11.19 10.18 11.80 10.22 12.28 10.19 12.77 10.73 8.87 41 9.81 9.57 10.36 9.30 10.91 10.08 11.45 10.09 11.89 10.05 43 9.14 8.82 9.64 9.45 10.15 9.21 10.62 9.98 11.10 9.96 11.49 9.92 11.88 10.45 46 8 96 8 73 9 40 9.21 9.83 9.08 10.20 9.82 10.57 9.78 10.89 9.71 11 21 10 24

Heating	Mode :	HC				(kW)
Outo	door		Indoor	air temp	erature	:
air te	emp.			°CDB		
°CDB	°CWB	16	18	20	22	24
-19.8	-20	7.60	7.51	7.42	7.33	7.24
-17.7	-18	7.80	7.73	7.66	7.54	7.42
-15.7	-16	8.66	8.56	8.46	8.36	8.25
-13.5	-14	8.95	8.84	8.73	8.63	8.53
-11.5	-12	9.52	9.39	9.26	9.17	9.08
-9.5	-10	10.10	9.95	9.80	9.72	9.64
-7.5	-8	10.67	10.50	10.34	10.26	10.19
-5.5	-6	11.13	10.96	10.79	10.72	10.64
-3.0	-4	11.59	11.42	11.25	11.17	11.09
-1.0	-2	12.05	11.87	11.70	11.62	11.54
1.0	0	12.50	12.33	12.16	12.07	11.99
2.0	1	12.73	12.56	12.38	12.30	12.22
3.0	2	13.06	12.88	12.71	12.62	12.54
5.0	4	13.70	13.53	13.35	13.27	13.19
7.0	6	14.35	14.18	14.00	13.92	13.84
9.0	8	14.73	14.56	14.39	14.31	14.24
11.5	10	15.11	14.94	14.78	14.71	14.64
13.5	12	15.90	15.71	15.52	15.44	15.37
15.5	14	16.69	16.48	16.26	16.18	16.09
16.5	16	17.09	16.86	16.63	16.54	16.46

(kW)

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Notes(1) These data show average status.

7.00 6.86 7.16 7.02 7.37

Depending on the system control, there may be ranges where the operation is not conducted continuously. These data show the case where the operation frequency of a compressor is fixed. (Cooling only)

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

7.22 7.57 7.41 7.72 7.56

(2) Capacities are based on the following conditions

Corresponding refrigerant piping length: 7.5m

Level difference of Zero.

(3) Symbols are as follows TC: Total cooling capacity (kW) SHC :Sensible heat capacity (kW) HC: Heating capacity (kW)

- 146 -

7.85 7.69 7.98 7.82

#

PFA004Z110 ⚠

Model FDE140VNAWPVH Indoor unit FDE71VH (2 units) Outdoor unit FDC140VNA-W (kW) ooling Mod (kW) Indoor air temperature Indoor air temperature Outdoor Outdoo air temp 18 °CDB 21 °CDB 23 °CDB 26 °CDB 27 °CDB 28 °CDB 31 °CDB 33 °CDB °CDB air temp 12 °CWB 14 °CWB 16 °CWB 18 °CWB 19 °CWB 20 °CWB 22 °CWB 24 °CWB CDB CWB 16 18 20 24 7.68 °CDB SHC TC SHC SHC SHC TC -19.8 -20 8.07 7.97 7.88 7.78 TC SHC TC SHC TC SHC TC TC TC SHC 14.99 11.66 15.78 11.70 16.21 11.60 17.06 12.14 17.92 11.87 -17.7 -18 8.20 8 13 8.05 7.93 7.80 -10 15.68 11.40 16.50 11.94 17.32 8.87 8.76 14.51 11.47 15.27 11.51 11.69 -15.7 -16 9.19 9.09 8.98 4.03 11.27 14.75 11.31 15.43 11.31 16.80 12.05 18.16 11.95 -13.5 -14 9.40 9.29 9.07 9.52 9.18 0 11.63 14.05 11.28 15.26 11.51 15.73 11.42 16 65 12.00 10.18 10.04 9.90 9 81 12.26 10.07 14.16 11.33 15.11 11.45 15.56 11.36 16.44 11.93 17.33 11.69 -9.5 10.84 10.68 10.52 10.43 10.35 11 12.79 10.30 11.77 14.20 11.34 14.91 11.37 15.44 11.32 16.52 11.95 17.59 -7.5 -8 11.50 11.32 11.14 11.06 10.98 13 13.33 10.52 14.24 11.36 14.70 11.29 15.33 11.27 16.59 11.98 11.85 12.08 11.63 14.29 11.38 15 13.86 10.75 14.50 11.21 16.67 12.00 -3.0 12.65 12.47 12.28 12.11 11.94 17 13.37 10.54 14.40 11.42 14.91 11.37 15.50 11.34 16.68 12.01 17.86 11.85 -1.0 13.23 13.04 12.85 12.77 12.68 19 13.81 13.95 10.79 14.51 11.47 15.78 11.44 16.69 12.01 11.77 1.0 13.62 13.42 13.33 13.24 15.33 11.53 17.59 21 13.71 10.69 14.36 11.41 15.17 11.47 15.62 11.38 16.53 11.95 17.43 11.72 2.0 1 14.10 13.90 13.71 13.62 13.53 23 13.47 10.58 14.22 11.35 15.01 11.41 15.46 11.32 16.36 11.90 17.27 11.67 3.0 14.46 14.26 14.07 13.98 13.89 25 27 13.32 11.15 13.34 10.53 14.15 11.32 14.93 11.38 15.38 11.29 16.28 11.87 17.18 11.65 5.0 4 15.17 14.98 14.78 14.69 14.60 13.22 10.48 14.07 11.29 15.49 11.33 16.13 11.82 13.09 29 12.81 10.92 12.91 10.35 13.75 11.16 14.54 11.23 15.18 11.22 15.81 11.71 9.0 8 16.31 16.12 15.93 15.85 15.77 31 12.53 10.79 12.60 10.21 13.43 11.04 14.23 11.11 14.86 11.10 15.50 11.61 11.5 10 16.73 16.55 16.36 16.28 16.21 17.61 17.39 17.18 10.63 9.52 11.45 10.30 12.28 10.08 13.11 10.91 13.91 10.99 14.55 10.99 15.18 11.50 13.5 12 17.10 17.01 35 10.45 9.43 11.21 10.19 11.97 9.95 12.79 10.79 13.60 10.87 14.23 10.87 14.86 11.40 14 18.48 18.24 18.00 17.91 17.82 37 10.32 9.37 11.03 10.11 11.74 9.86 12.48 10.67 13.22 10.73 13.80 10.72 14.38 11.24 16 18.92 18.67 18.41 18.32 18.22 16.5 39 10.20 9.31 10.85 10.03 11.51 9.76 12.17 10.55 12.84 10.59 13.36 10.57 13.89 11.08 41 12.45 10.45 10.07 9.25 10.67 9.95 11.28 9.66 11.87 10.44 12.93 10.41 13.41 10.93 43 9.94 10.49 9.87 11.04 9.57 11.56 10.32 12.07 10.31 12.50 10.26 12.92 10.77 46 9.10 9.76 10.70 9.43 11.10 10.15 11.50 10.11 11.85 10.04 12.20 10.55 9.75 10.22 PFA004Z110 /A 50 7.61 7.46 7.79 7.64 8.02 7.86 8.23 8.07 8.40 8.23 8.54 8.37 8.68 8.51

Indoor unit FDE71VH (2 units) Outdoor unit FDC140VSA-W Model FDE140VSAWPVH (kW) (kW) Heating Mode:HC Cooling Mode Indoor air temperature Indoor air temperature Outdoo air temp 18 °CDB 21 °CDB 23 °CDB 26 °CDB 27 °CDB 28 °CDB 31 °CDB 33 °CDB °CDB air temp 12 °CWB 14 °CWB 16 °CWB 18 °CWB 19 °CWB 20 °CWB 22 °CWB 24 °CWB CDB CWB 20 24 16 18 -19.8 -20 8.07 7.97 7.88 7.68 °CDB SHC SHC 7.78 TC SHC TC SHC TC SHC TC TC SHC TC SHC TC TC SHC -15 14 99 11 66 15 78 11 70 16 21 11 60 17 06 12 14 17 92 11 87 -17 7 -18 8 20 8 13 8.05 7 93 7.80 -10 14.51 11.47 15.27 11.51 15.68 11.40 16.50 11.94 17.32 11.69 -15.7 -16 9.19 9.09 8.98 8.87 8.76 14.03 11.27 14.75 11.31 15.43 11.31 16.80 12.05 18.16 11.95 -13.5 -14 9.40 9.29 9.52 9.18 9.07 0 14.05 11.28 15.26 11.42 16.65 12.00 12.26 10.07 14.16 11.33 15.11 11.45 15.56 11.36 16.44 11.93 17.33 11.69 -9.5 10.84 10.68 10.52 10.43 10.35 17.59 11.77 11 12.79 10.30 14.20 11.34 14.91 11.37 15.44 11.32 16.52 11.95 -7.5 -8 11.50 11.32 11.14 11.06 10.98 13 13.33 14.24 11.36 14.70 11.29 15.33 11.27 16.59 11.98 17.86 11.85 -5.5 11.89 11.71 11.63 11.55 10.52 -6 2.08 14.29 11.38 14.50 11.21 15.22 11.23 16 67 12 00 18.12 11.94 12 /17 13.86 10.75 17 13.37 10.54 14.40 11.42 14.91 11.37 15.50 11.34 16.68 12.01 17.86 11.85 -1.0 13.23 13.04 12.85 12.77 12.68 19 10.79 14.51 11.47 15.78 11.44 16.69 12.01 17.59 11.77 1.0 0 13.81 | 13.62 | 13.42 | 13.33 | 13.24 13.95 15.33 11.53 21 10.69 14.36 11.41 15.17 11.47 15.62 11.38 16.53 11.95 17.43 11.72 2.0 14.10 13.90 13.71 13.62 14.22 11.35 15.01 11.41 15.46 11.32 16.36 11.90 17.27 11.67 3.0 14.46 14.26 14.07 13.98 13.89 13.47 10.58 5.0 7.0 25 27 13.32 11.15 13.34 10.53 14.15 11.32 14.93 11.38 15.38 11.29 16.28 11.87 17.18 11.65 4 15.17 14.98 14.78 14.69 14.60 14.07 11.29 16.13 11.82 10.48 14.85 11.35 15.49 11.33 15.69 15.50 15.41 15.32 11.05 13.22 15.89 13.09 14.54 11.23 29 12.81 10.92 12.91 10.35 13.75 11.16 15.18 11.22 15.81 11.71 9.0 16.31 16.12 15.85 15.77 31 10.79 12.60 10.21 13.43 11.04 14.23 11.11 14.86 11.10 15.50 11.61 11.5 10 16.73 16.55 16.36 16.28 16.21 33 35 10.63 9.52 11.45 10.30 12.28 10.08 13.11 10.91 13.91 10.99 14.55 10.99 15.18 11.50 13.5 12 17.61 17.39 17.18 17.10 17.01 18.48 18.24 18.00 17.91 10.45 11.21 9.95 12.79 10.79 14.23 10.87 14.86 11.40 10.19 11.97 13.60 10.87 11.03 13.80 10.72 10.32 9.37 10.11 11.74 9.86 12.48 10.67 13.22 10.73 14.38 11.24 18.92 18.67 18.41 18.32 18.23 37 16 39 10.20 9.31 10.85 10.03 11.51 9.76 12.17 10.55 12.84 10.59 13.36 10.57 13.89 11.08 41 10.07 9.25 10.67 9.95 11.28 9.66 11.87 10.44 12.45 10.45 12.93 10.41 13.41 10.93

12.50 10.26 12.92 10.77

8.54 8.37 8.68 8.51

12.20 10.55

11.85 10.04

Notes(1) These data show average status.

10.22 9.76

9.19

9.10

9.75

7.61 7.46

43

46

50

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed. (Cooling only)

11.56 10.32

11.10 10.15

9.57

10.70 9.43

7.79 7.64 8.02 7.86 8.23 8.07

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

12.07 10.31

11.50 10.11

8.40 8.23

2) Capacities are based on the following conditions.

Corresponding refrigerant piping length :7.5m Level difference of Zero.

(3) Symbols are as follows

TC :Total cooling capacity (kW) SHC :Sensible heat capacity (kW) HC :Heating capacity (kW)

(c) Triple type

Model FDE140VNAWTVH Indoor unit FDE50VH (3 units) Outdoor unit FDC140VNA-W Cooling Mode

							Inde	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
un tomp.	12 °	CWB	14 °0	CWB	16 °0	CWB	18 °	CWB	19 °C	CWB	20 °	CWB	22 °	CWB	24 °(CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							14.99	11.52	15.78	11.57	16.21	11.46	17.06	11.98	17.92	11.72
-10							14.51	11.32	15.27	11.37	15.68	11.26	16.50	11.79	17.32	11.53
-5							14.03	11.13	14.75	11.17	15.43	11.17	16.80	11.89	18.16	11.79
0					11.63	9.69	14.05	11.14	15.26	11.37	15.73	11.28	16.65	11.84	17.58	11.61
5					12.26	9.95	14.16	11.18	15.11	11.31	15.56	11.22	16.44	11.77	17.33	11.53
11					12.79	10.18	14.20	11.20	14.91	11.23	15.44	11.18	16.52	11.79	17.59	11.61
13					13.33	10.40	14.24	11.22	14.70	11.15	15.33	11.13	16.59	11.82	17.86	11.70
15					13.86	10.64	14.29	11.23	14.50	11.07	15.22	11.09	16.67	11.85	18.12	11.78
17					13.37	10.42	14.40	11.28	14.91	11.23	15.50	11.20	16.68	11.85	17.86	11.70
19					13.95	10.67	14.51	11.32	15.33	11.39	15.78	11.30	16.69	11.85	17.59	11.62
21					13.71	10.57	14.36	11.27	15.17	11.33	15.62	11.24	16.53	11.80	17.43	11.56
23					13.47	10.46	14.22	11.21	15.01	11.27	15.46	11.18	16.36	11.74	17.27	11.51
25			13.32	11.03	13.34	10.41	14.15	11.18	14.93	11.24	15.38	11.15	16.28	11.71	17.18	11.49
27			13.09	10.92	13.22	10.36	14.07	11.15	14.85	11.21	15.49	11.19	16.13	11.66		
29			12.81	10.79	12.91	10.23	13.75	11.02	14.54	11.09	15.18	11.08	15.81	11.55		
31			12.53	10.66	12.60	10.09	13.43	10.89	14.23	10.97	14.86	10.96	15.50	11.45		
33	10.63	9.41	11.45	10.17	12.28	9.96	13.11	10.77	13.91	10.85	14.55	10.85	15.18	11.34		
35	10.45	9.32	11.21	10.06	11.97	9.83	12.79	10.64	13.60	10.73	14.23	10.73	14.86	11.24		
37	10.32	9.26	11.03	9.98	11.74	9.73	12.48	10.52	13.22	10.59	13.80	10.57	14.38	11.08		
39	10.20	9.20	10.85	9.90	11.51	9.63	12.17	10.41	12.84	10.45	13.36	10.42	13.89	10.92		
41	10.07	9.14	10.67	9.82	11.28	9.54	11.87	10.29	12.45	10.30	12.93	10.27	13.41	10.76		
43	9.94	9.08	10.49	9.74	11.04	9.44	11.56	10.17	12.07	10.17	12.50	10.11	12.92	10.61		
46	9.75	8.99	10.22	9.62	10.70	9.30	11.10	10.00	11.50	9.96	11.85	9.89	12.20	10.38		
50	7.61	7.46	7 70	7.64	8 02	7.86	8 23	8.07	8.40	8 23	8 5/1	9.37	8.68	8.51		

(kW)	Не	ating	Mode:	HC				(kW)
		Out	door		Indoor	air temp	erature	:
DB		air te	emp.			°CDB		
VВ	°(CDB	°CWB	16	18	20	22	24
SHC	-1	19.8	-20	8.07	7.97	7.88	7.78	7.68
1.72	-1	7.7	-18	8.20	8.13	8.05	7.93	7.80
1.53	-1	15.7	-16	9.19	9.09	8.98	8.87	8.76
1.79	-1	3.5	-14	9.52	9.40	9.29	9.18	9.07
1.61	-1	11.5	-12	10.18	10.04	9.90	9.81	9.71
1.53	-	9.5	-10	10.84	10.68	10.52	10.43	10.35
1.61	Ŀ	7.5	-8	11.50	11.32	11.14	11.06	10.98
1.70	-	5.5	-6	12.08	11.89	11.71	11.63	11.55
1.78	E	3.0	-4	12.65	12.47	12.28	12.20	12.11
1.70	F	1.0	-2	13.23	13.04	12.85	12.77	12.68
1.62	Г	1.0	0	13.81	13.62	13.42	13.33	13.24
1.56		2.0	1	14.10	13.90	13.71	13.62	13.53
1.51		3.0	2	14.46	14.26	14.07	13.98	13.89
1.49		5.0	4	15.17	14.98	14.78	14.69	14.60
	_ [7	7.0	6	15.89	15.69	15.50	15.41	15.32
	(9.0	8	16.31	16.12	15.93	15.85	15.77
	1	1.5	10	16.73	16.55	16.36	16.28	16.21
	1	3.5	12	17.61	17.39	17.18	17.10	17.01
	1	5.5	14	18.48	18.24	18.00	17.91	17.82
	1	6.5	16	18.92	18.67	18.41	18.32	18.22

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Model FDE140VSAWTVH

Indoor unit FDE50VH (3 units)

Outdoor unit FDC140VSA-W

Cooling M	lode								,							(kW
							Ind	oor air t	empera	iture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
ali terrip.	12 °	CWB	14 °	CWB	16 °	CWB	18 °	CWB	19 °	CWB	20 °	CWB	22 °	CWB	24 °C	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							14.99	11.52	15.78	11.57	16.21	11.46	17.06	11.98	17.92	11.72
-10							14.51	11.32	15.27	11.37	15.68	11.26	16.50	11.79	17.32	11.53
-5							14.03	11.13	14.75	11.17	15.43	11.17	16.80	11.89	18.16	11.79
0					11.63	9.69	14.05	11.14	15.26	11.37	15.73	11.28	16.65	11.84	17.58	11.61
5					12.26	9.95	14.16	11.18	15.11	11.31	15.56	11.22	16.44	11.77	17.33	11.53
11					12.79	10.18	14.20	11.20	14.91	11.23	15.44	11.18	16.52	11.79	17.59	11.61
13					13.33	10.40	14.24	11.22	14.70	11.15	15.33	11.13	16.59	11.82	17.86	11.70
15					13.86	10.64	14.29	11.23	14.50	11.07	15.22	11.09	16.67	11.85	18.12	11.78
17					13.37	10.42	14.40	11.28	14.91	11.23	15.50	11.20	16.68	11.85	17.86	11.70
19					13.95	10.67	14.51	11.32	15.33	11.39	15.78	11.30	16.69	11.85	17.59	11.62
21					13.71	10.57	14.36	11.27	15.17	11.33	15.62	11.24	16.53	11.80	17.43	11.56
23					13.47	10.46	14.22	11.21	15.01	11.27	15.46	11.18	16.36	11.74	17.27	11.51
25			13.32	11.03	13.34	10.41	14.15	11.18	14.93	11.24	15.38	11.15	16.28	11.71	17.18	11.49
27			13.09	10.92	13.22	10.36	14.07	11.15	14.85	11.21	15.49	11.19	16.13	11.66		
29			12.81	10.79	12.91	10.23	13.75	11.02	14.54	11.09	15.18	11.08	15.81	11.55		
31			12.53	10.66	12.60	10.09	13.43	10.89	14.23	10.97	14.86	10.96	15.50	11.45		
33	10.63	9.41	11.45	10.17	12.28	9.96	13.11	10.77	13.91	10.85	14.55	10.85	15.18	11.34		
35	10.45	9.32	11.21	10.06	11.97	9.83	12.79	10.64	13.60	10.73	14.23	10.73	14.86	11.24		
37	10.32	9.26	11.03	9.98	11.74	9.73	12.48	10.52	13.22	10.59	13.80	10.57	14.38	11.08		
39	10.20	9.20	10.85	9.90	11.51	9.63	12.17	10.41	12.84	10.45	13.36	10.42	13.89	10.92		
41	10.07	9.14	10.67	9.82	11.28	9.54	11.87	10.29	12.45	10.30	12.93	10.27	13.41	10.76		
43	9.94	9.08	10.49	9.74	11.04	9.44	11.56	10.17	12.07	10.17	12.50	10.11	12.92	10.61		
46	9.75	8.99	10.22	9.62	10.70	9.30	11.10	10.00	11.50	9.96	11.85	9.89	12.20	10.38		
50	7.61	7.46	7.79	7.64	8.02	7.86	8.23	8.07	8.40	8.23	8.54	8.37	8.68	8.51		l

(kW))	Heating	Mode:	НС				(kW)
	Ш	Outo	door		Indoor	air temp	erature	:
DВ	Ш	air te	emp.			°CDB		
VB	Ш	°CDB	°CWB	16	18	20	22	24
SHC	Ш	-19.8	-20	8.07	7.97	7.88	7.78	7.68
1.72	П	-17.7	-18	8.20	8.13	8.05	7.93	7.80
1.53	П	-15.7	-16	9.19	9.09	8.98	8.87	8.76
1.79	П	-13.5	-14	9.52	9.40	9.29	9.18	9.07
1.61	П	-11.5	-12	10.18	10.04	9.90	9.81	9.71
1.53	П	-9.5	-10	10.84	10.68	10.52	10.43	10.35
1.61	П	-7.5	-8	11.50	11.32	11.14	11.06	10.98
1.70	П	-5.5	-6	12.08	11.89	11.71	11.63	11.55
1.78	П	-3.0	-4	12.65	12.47	12.28	12.20	12.11
1.70	П	-1.0	-2	13.23	13.04	12.85	12.77	12.68
1.62	П	1.0	0	13.81	13.62	13.42	13.33	13.24
1.56	П	2.0	1	14.10	13.90	13.71	13.62	13.53
1.51	П	3.0	2	14.46	14.26	14.07	13.98	13.89
1.49	П	5.0	4	15.17	14.98	14.78	14.69	14.60
	П	7.0	6	15.89	15.69	15.50	15.41	15.32
	П	9.0	8	16.31	16.12	15.93	15.85	15.77
	П	11.5	10	16.73	16.55	16.36	16.28	16.21
	П	13.5	12	17.61	17.39	17.18	17.10	17.01
	П	15.5	14	18.48	18.24	18.00	17.91	17.82
	П	16.5	16	18.92	18.67	18.41	18.32	18.22

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Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed. (Cooling only)
In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

(2) Capacities are based on the following conditions.

Corresponding refrigerant piping length :7.5m Level difference of Zero.

(3) Symbols are as follows
TC: Total cooling capacity (kW)
SHC: Sensible heat capacity (kW)
HC: Heating capacity (kW)

(6) Wall mounted type (SRK)

(a) Single type

Model SRK100VNAWZR Indoor unit SRK100ZR-W Outdoor unit FDC100VNA-W Cooling Mode

0							Indo	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
dii tomp.	12 °	CWB	14 °0	CWB	16 °	CWB	18 °C	CWB	19 °C	CWB	20 °C	CWB	22 °(CWB	24 °C	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.02	8.14	11.60	8.06	11.92	7.90	12.55	8.26	13.18	7.90
-10							10.67	8.04	11.23	7.97	11.53	7.81	12.13	8.18	12.73	7.82
-5							10.31	7.95	10.85	7.87	11.35	7.77	12.35	8.22	13.36	7.93
0					8.55	7.00	10.33	7.95	11.22	7.96	11.56	7.82	12.25	8.20	12.93	7.85
5					9.01	7.14	10.41	7.97	11.11	7.93	11.44	7.79	12.09	8.17	12.74	7.82
11					9.41	7.26	10.44	7.98	10.96	7.90	11.36	7.77	12.15	8.18	12.94	7.86
13					9.80	7.38	10.47	7.99	10.81	7.86	11.27	7.75	12.20	8.19	13.13	7.89
15					10.19	7.50	10.50	8.00	10.66	7.82	11.19	7.73	12.26	8.20	13.32	7.92
17					9.83	7.38	10.59	8.02	10.97	7.90	11.40	7.78	12.26	8.20	13.13	7.89
19					10.26	7.52	10.67	8.04	11.27	7.98	11.61	7.83	12.27	8.20	12.94	7.86
21					10.08	7.46	10.56	8.01	11.15	7.95	11.49	7.80	12.15	8.18	12.82	7.84
23					9.90	7.41	10.45	7.98	11.04	7.92	11.37	7.77	12.03	8.16	12.70	7.82
25			9.79	7.94	9.81	7.38	10.40	7.97	10.98	7.90	11.31	7.76	11.97	8.14	12.63	7.81
27			9.62	7.88	9.72	7.35	10.35	7.96	10.92	7.89	11.39	7.78	11.86	8.12		
29			9.42	7.81	9.49	7.28	10.11	7.89	10.69	7.83	11.16	7.72	11.63	8.08		
31			9.21	7.74	9.26	7.21	9.87	7.83	10.46	7.77	10.93	7.67	11.39	8.03		
33	7.82	6.89	8.42	7.47	9.03	7.14	9.64	7.77	10.23	7.71	10.70	7.61	11.16	7.99		
35	7.68	6.84	8.24	7.41	8.80	7.08	9.40	7.71	10.00	7.66	10.46	7.56	10.93	7.94		
37	7.59	6.81	8.11	7.36	8.63	7.03	9.18	7.65	9.72	7.59	10.15	7.49	10.57	7.88		
39	7.50	6.77	7.98	7.32	8.46	6.98	8.95	7.59	9.44	7.52	9.83	7.42	10.22	7.81		
41	7.40	6.74	7.85	7.28	8.29	6.93	8.72	7.54	9.16	7.46	9.51	7.35	9.86	7.75		
43	7.31	6.70	7.72	7.23	8.12	6.88	8.50	7.48	8.88	7.39	9.19	7.28	9.50	7.68		
46	7.17	6.65	7.52	7.17	7.87	6.81	8.16	7.40	8.46	7.30	8.71	7.18	8.97	7.59		
50	5.60	5.49	5.73	5.62	5.90	5.78	6.05	5.93	6.17	6.05	6.28	6.15	6.38	6.26		

(kW)	Heating	Mode:	HC				(kW)
	Out	door		Indoor	air temp	erature	;
DB	air te	emp.			°CDB		
ΝB	°CDB	°CWB	16	18	20	22	24
SHC	-19.8	-20	6.47	6.40	6.32	6.24	6.16
7.90	-17.7	-18	6.52	6.46	6.40	6.30	6.20
7.82	-15.7	-16	7.37	7.29	7.20	7.11	7.02
7.93	-13.5	-14	7.66	7.57	7.47	7.38	7.30
7.85	-11.5	-12	8.23	8.12	8.01	7.93	7.85
7.82	-9.5	-10	8.80	8.67	8.54	8.47	8.40
7.86	-7.5	-8	9.38	9.23	9.08	9.02	8.95
7.89	-5.5	-6	9.56	9.41	9.26	9.20	9.14
7.92	-3.0	-4	9.74	9.59	9.45	9.38	9.32
7.89	-1.0	-2	9.92	9.77	9.63	9.57	9.50
7.86	1.0	0	10.10	9.96	9.81	9.75	9.68
7.84	2.0	1	10.19	10.05	9.91	9.84	9.77
7.82	3.0	2	10.45	10.31	10.17	10.10	10.03
7.81	5.0	4	10.96	10.82	10.68	10.62	10.55
	7.0	6	11.48	11.34	11.20	11.13	11.07
	9.0	8	11.79	11.65	11.51	11.45	11.39
	11.5	10	12.09	11.96	11.82	11.77	11.71
	13.5	12	12.72	12.57	12.41	12.35	12.29
	15.5	14	13.35	13.18	13.01	12.94	12.88
	16.5	16	13.67	13.49	13.31	13.24	13.17

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Model SRK100VSAWZR

Indoor unit SRK100ZR-W

Outdoor unit FDC100VSA-W

Cooling M	lode															(kV
							Inde	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27°	CDB	28 °	CDB	31 °	CDB	33 °	CDB
ali terrip.	12 °	CWB	14 °	CWB	16 °	CWB	18 °C	CWB	19 °	CWB	20 °C	CWB	22 °(CWB	24 °C	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.02	8.01	11.60	8.07	11.92	8.00	12.55	8.32	13.18	8.14
-10							10.67	7.86	11.23	7.91	11.53	7.84	12.13	8.16	12.73	7.99
-5							10.31	7.71	10.85	7.75	11.35	7.77	12.35	8.24	13.36	8.20
0					8.55	6.70	10.33	7.72	11.22	7.91	11.56	7.86	12.25	8.20	12.93	8.05
5					9.01	6.90	10.41	7.75	11.11	7.86	11.44	7.80	12.09	8.15	12.74	7.99
11					9.41	7.08	10.44	7.77	10.96	7.80	11.36	7.77	12.15	8.17	12.94	8.05
13					9.80	7.26	10.47	7.78	10.81	7.74	11.27	7.74	12.20	8.19	13.13	8.12
15					10.19	7.44	10.50	7.79	10.66	7.68	11.19	7.71	12.26	8.21	13.32	8.19
17					9.83	7.27	10.59	7.83	10.97	7.80	11.40	7.79	12.26	8.21	13.13	8.12
19					10.26	7.47	10.67	7.86	11.27	7.93	11.61	7.87	12.27	8.21	12.94	8.05
21					10.08	7.39	10.56	7.82	11.15	7.88	11.49	7.82	12.15	8.17	12.82	8.01
23					9.90	7.31	10.45	7.77	11.04	7.83	11.37	7.78	12.03	8.12	12.70	7.97
25			9.79	7.71	9.81	7.27	10.40	7.75	10.98	7.81	11.31	7.75	11.97	8.10	12.63	7.95
27			9.62	7.62	9.72	7.22	10.35	7.72	10.92	7.78	11.39	7.79	11.86	8.06		
29			9.42	7.52	9.49	7.12	10.11	7.62	10.69	7.69	11.16	7.69	11.63	7.98		
31		0.54	9.21	7.42	9.26	7.01	9.87	7.52	10.46	7.59	10.93	7.60	11.39	7.89		-
33	7.82	6.54	8.42	7.03	9.03	6.91	9.64	7.42	10.23	7.50	10.70	7.51	11.16	7.81		
35	7.68	6.47	8.24	6.95	8.80	6.81	9.40	7.33	10.00	7.41	10.46	7.42	10.93	7.72		<u> </u>
37 39	7.59 7.50	6.43	8.11 7.98	6.89	8.63 8.46	6.73	9.18 8.95	7.23	9.72	7.29	10.15 9.83	7.30	10.57 10.22	7.60	-	┢
41	7.40	6.33	7.85	6.76	8.46	6.58	8.95	7.14	9.44	7.18	9.83	7.17	9.86	7.47	-	
43	7.40	6.28	7.72	6.70	8.29	6.51	8.72	6.96	8.88	6.96	9.51	6.93	9.80	7.22		-
46	7.17	6.21	7.52	6.61	7.87	6.40	8.16	6.82	8.46	6.80	8.71	6.76	8.97	7.04	-	<u> </u>
50	5.60	5.45	5.73	5.62	5.90	5.58	6.05	5.93	6.17	5.95	6.28	5.89	6.38	6.20	-	\vdash

(kW)		Heating	Mode:	НС				(kW)
		Outo	door		Indoor	air temp	erature	;
DΒ		air te	emp.			°CDB		
VB		°CDB	°CWB	16	18	20	22	24
SHC		-19.8	-20	6.47	6.40	6.32	6.24	6.16
3.14		-17.7	-18	6.52	6.46	6.40	6.30	6.20
7.99	Ш	-15.7	-16	7.37	7.29	7.20	7.11	7.02
3.20		-13.5	-14	7.66	7.57	7.47	7.38	7.30
3.05		-11.5	-12	8.23	8.12	8.01	7.93	7.85
7.99	Ш	-9.5	-10	8.80	8.67	8.54	8.47	8.40
3.05	Ш	-7.5	-8	9.38	9.23	9.08	9.02	8.95
3.12	Ш	-5.5	-6	9.56	9.41	9.26	9.20	9.14
3.19	Ш	-3.0	-4	9.74	9.59	9.45	9.38	9.32
3.12	Ш	-1.0	-2	9.92	9.77	9.63	9.57	9.50
3.05	Ш	1.0	0	10.10	9.96	9.81	9.75	9.68
3.01	Ш	2.0	1	10.19	10.05	9.91	9.84	9.77
7.97	Ш	3.0	2	10.45	10.31	10.17	10.10	10.03
7.95	Ш	5.0	4	10.96	10.82	10.68	10.62	10.55
	Ш	7.0	6	11.48	11.34	11.20	11.13	11.07
	П	9.0	8	11.79	11.65	11.51	11.45	11.39
		11.5	10	12.09	11.96	11.82	11.77	11.71
		13.5	12	12.72	12.57	12.41	12.35	12.29
		15.5	14	13.35	13.18	13.01	12.94	12.88
		16.5	16	13.67	13.49	13.31	13.24	13.17

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Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed. (Cooling only)
In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

(2) Capacities are based on the following conditions.

Corresponding refrigerant piping length :7.5m Level difference of Zero.

(3) Symbols are as follows
TC: Total cooling capacity (kW)
SHC: Sensible heat capacity (kW)
HC: Heating capacity (kW)

(kW)

(b) Twin type

Model SRK100VNAWPZSX Indoor unit SRK50ZSX-W (2 units) Outdoor unit FDC100VNA-W Cooling Mode

0.11			_		_		Inde	oor air t	empera	ture	_		_		_	
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
all tomp.	12 °	CWB	14 °C	CWB	16 °	CWB	18 °	CWB	19 °C	CWB	20 °C	CWB	22 °C	CWB	24 °	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.02	8.30	11.60	8.35	11.92	8.28	12.55	8.63	13.18	8.45
-10							10.67	8.16	11.23	8.20	11.53	8.13	12.13	8.49	12.73	8.30
-5							10.31	8.01	10.85	8.05	11.35	8.06	12.35	8.56	13.36	8.51
0					8.55	6.97	10.33	8.02	11.22	8.20	11.56	8.14	12.25	8.53	12.93	8.37
5					9.01	7.16	10.41	8.05	11.11	8.15	11.44	8.09	12.09	8.47	12.74	8.31
11					9.41	7.34	10.44	8.06	10.96	8.09	11.36	8.06	12.15	8.49	12.94	8.37
13					9.80	7.51	10.47	8.08	10.81	8.03	11.27	8.03	12.20	8.51	13.13	8.43
15					10.19	7.68	10.50	8.09	10.66	7.97	11.19	8.00	12.26	8.53	13.32	8.50
17					9.83	7.52	10.59	8.12	10.97	8.09	11.40	8.07	12.26	8.53	13.13	8.43
19					10.26	7.71	10.67	8.16	11.27	8.22	11.61	8.15	12.27	8.54	12.94	8.37
21					10.08	7.63	10.56	8.11	11.15	8.17	11.49	8.11	12.15	8.49	12.82	8.33
23					9.90	7.55	10.45	8.07	11.04	8.12	11.37	8.06	12.03	8.45	12.70	8.29
25			9.79	7.96	9.81	7.51	10.40	8.05	10.98	8.10	11.31	8.04	11.97	8.43	12.63	8.27
27			9.62	7.88	9.72	7.48	10.35	8.02	10.92	8.07	11.39	8.07	11.86	8.39		
29			9.42	7.78	9.49	7.37	10.11	7.93	10.69	7.98	11.16	7.98	11.63	8.31		
31			9.21	7.68	9.26	7.27	9.87	7.83	10.46	7.89	10.93	7.89	11.39	8.23		
33	7.82	6.78	8.42	7.31	9.03	7.17	9.64	7.74	10.23	7.80	10.70	7.81	11.16	8.15		
35	7.68	6.71	8.24	7.23	8.80	7.07	9.40	7.64	10.00	7.71	10.46	7.72	10.93	8.07		
37	7.59	6.67	8.11	7.17	8.63	7.00	9.18	7.55	9.72	7.60	10.15	7.60	10.57	7.94		
39	7.50	6.62	7.98	7.11	8.46	6.93	8.95	7.46	9.44	7.50	9.83	7.48	10.22	7.82		
41	7.40	6.58	7.85	7.05	8.29	6.85	8.72	7.37	9.16	7.39	9.51	7.37	9.86	7.71		
43	7.31	6.53	7.72	6.99	8.12	6.78	8.50	7.29	8.88	7.29	9.19	7.25	9.50	7.59		
46	7.17	6.46	7.52	6.90	7.87	6.68	8.16	7.16	8.46	7.13	8.71	7.08	8.97	7.41		
50	5.60	5.49	5.73	5.62	5.90	5.78	6.05	5.93	6.17	6.05	6.28	6.15	6.38	6.26		

(kW)) [Heating	Mode:	НС				(kW)
	Ш	Out	door		Indoor	air temp	erature	;
DB	Ш	air te	emp.			°CDB		
NΒ	Ш	°CDB	°CWB	16	18	20	22	24
SHC	Ш	-19.8	-20	6.47	6.40	6.32	6.24	6.16
8.45	П	-17.7	-18	6.52	6.46	6.40	6.30	6.20
8.30	П	-15.7	-16	7.37	7.29	7.20	7.11	7.02
8.51	П	-13.5	-14	7.66	7.57	7.47	7.38	7.30
8.37	Ш	-11.5	-12	8.23	8.12	8.01	7.93	7.85
8.31	П	-9.5	-10	8.80	8.67	8.54	8.47	8.40
8.37	П	-7.5	-8	9.38	9.23	9.08	9.02	8.95
8.43	Ш	-5.5	-6	9.56	9.41	9.26	9.20	9.14
8.50	П	-3.0	-4	9.74	9.59	9.45	9.38	9.32
8.43	Ш	-1.0	-2	9.92	9.77	9.63	9.57	9.50
8.37	Ш	1.0	0	10.10	9.96	9.81	9.75	9.68
8.33	Ш	2.0	1	10.19	10.05	9.91	9.84	9.77
8.29	Ш	3.0	2	10.45	10.31	10.17	10.10	10.03
8.27	Ш	5.0	4	10.96	10.82	10.68	10.62	10.55
	Ш	7.0	6	11.48	11.34	11.20	11.13	11.07
	Ш	9.0	8	11.79	11.65	11.51	11.45	11.39
	Ш	11.5	10	12.09	11.96	11.82	11.77	11.71
	П	13.5	12	12.72	12.57	12.41	12.35	12.29
	П	15.5	14	13.35	13.18	13.01	12.94	12.88
	П	16.5	16	13.67	13.49	13.31	13.24	13.17
	1 '							

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Model SRK100VSAWPZSX

Indoor unit SRK50ZSX-W (2 units)

Outdoor unit FDC100VSA-W

Cooling M	ode															(kW
Outdoor							Inde	oor air t	empera	ture						
air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
an temp.	12 °	CWB	14 °	CWB	16 °	CWB	18 °	CWB	19 °C	CWB	20 °C	CWB	22 °C	CWB	24 °C	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.02	8.30	11.60	8.35	11.92	8.28	12.55	8.63	13.18	8.45
-10							10.67	8.16	11.23	8.20	11.53	8.13	12.13	8.49	12.73	8.30
-5							10.31	8.01	10.85	8.05	11.35	8.06	12.35	8.56	13.36	8.51
0					8.55	6.97	10.33	8.02	11.22	8.20	11.56	8.14	12.25	8.53	12.93	8.37
5					9.01	7.16	10.41	8.05	11.11	8.15	11.44	8.09	12.09	8.47	12.74	8.31
11					9.41	7.34	10.44	8.06	10.96	8.09	11.36	8.06	12.15	8.49	12.94	8.37
13					9.80	7.51	10.47	8.08	10.81	8.03	11.27	8.03	12.20	8.51	13.13	8.43
15					10.19	7.68	10.50	8.09	10.66	7.97	11.19	8.00	12.26	8.53	13.32	8.50
17					9.83	7.52	10.59	8.12	10.97	8.09	11.40	8.07	12.26	8.53	13.13	8.43
19					10.26	7.71	10.67	8.16	11.27	8.22	11.61	8.15	12.27	8.54	12.94	8.37
21					10.08	7.63	10.56	8.11	11.15	8.17	11.49	8.11	12.15	8.49	12.82	8.33
23					9.90	7.55	10.45	8.07	11.04	8.12	11.37	8.06	12.03	8.45	12.70	8.29
25			9.79	7.96	9.81	7.51	10.40	8.05	10.98	8.10	11.31	8.04	11.97	8.43	12.63	8.27
27			9.62	7.88	9.72	7.48	10.35	8.02	10.92	8.07	11.39	8.07	11.86	8.39		
29			9.42	7.78	9.49	7.37	10.11	7.93	10.69	7.98	11.16	7.98	11.63	8.31		
31			9.21	7.68	9.26	7.27	9.87	7.83	10.46	7.89	10.93	7.89	11.39	8.23		
33	7.82	6.78	8.42	7.31	9.03	7.17	9.64	7.74	10.23	7.80	10.70	7.81	11.16	8.15		
35	7.68	6.71	8.24	7.23	8.80	7.07	9.40	7.64	10.00	7.71	10.46	7.72	10.93	8.07		
37	7.59	6.67	8.11	7.17	8.63	7.00	9.18	7.55	9.72	7.60	10.15	7.60	10.57	7.94		
39	7.50	6.62	7.98	7.11	8.46	6.93	8.95	7.46	9.44	7.50	9.83	7.48	10.22	7.82		
41	7.40	6.58	7.85	7.05	8.29	6.85	8.72	7.37	9.16	7.39	9.51	7.37	9.86	7.71		
43	7.31	6.53	7.72	6.99	8.12	6.78	8.50	7.29	8.88	7.29	9.19	7.25	9.50	7.59		
46	7.17	6.46	7.52	6.90	7.87	6.68	8.16	7.16	8.46	7.13	8.71	7.08	8.97	7.41		
50	5.60	5.49	5.73	5.62	5.90	5.78	6.05	5.93	6.17	6.05	6.28	6.15	6.38	6.26		

(kW)		door		Indoor	air temp	erature	
_				ilidool		Crature	
DB	air t	emp.			°CDB		
VВ	°CDB	°CWB	16	18	20	22	24
SHC	-19.8	-20	6.47	6.40	6.32	6.24	6.16
8.45	-17.7	-18	6.52	6.46	6.40	6.30	6.20
8.30	-15.7	-16	7.37	7.29	7.20	7.11	7.02
8.51	-13.5	-14	7.66	7.57	7.47	7.38	7.30
8.37	-11.5	-12	8.23	8.12	8.01	7.93	7.85
8.31	-9.5	-10	8.80	8.67	8.54	8.47	8.40
8.37	-7.5	-8	9.38	9.23	9.08	9.02	8.95
8.43	-5.5	-6	9.56	9.41	9.26	9.20	9.14
8.50	-3.0	-4	9.74	9.59	9.45	9.38	9.32
8.43	-1.0	-2	9.92	9.77	9.63	9.57	9.50
8.37	1.0	0	10.10	9.96	9.81	9.75	9.68
8.33	2.0	1	10.19	10.05	9.91	9.84	9.77
8.29	3.0	2	10.45	10.31	10.17	10.10	10.03
8.27	5.0	4	10.96	10.82	10.68	10.62	10.55
	7.0	6	11.48	11.34	11.20	11.13	11.07
	9.0	8	11.79	11.65	11.51	11.45	11.39
	11.5	10	12.09	11.96	11.82	11.77	11.71
	13.5	12	12.72	12.57	12.41	12.35	12.29
	15.5	14	13.35	13.18	13.01	12.94	12.88
\neg	16.5	16	13.67	13.49	13.31	13.24	13.17

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Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed. (Cooling only)

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

(2) Capacities are based on the following conditions.

(2) Capacities are based on the following condition
Corresponding refrigerant piping length: 7.5m
Level difference of Zero.

(3) Symbols are as follows
TC: Total cooling capacity (kW)
SHC: Sensible heat capacity (kW)
HC: Heating capacity (kW)

Model SRK125VNAWPZSX Indoor unit SRK60ZSX-W (2 units) Outdoor unit FDC125VNA-W

Cooling Mo	ode															(kW)
							Indo	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
all terrip.	12 °C	CWB	14 °C	CWB	16 °0	CWB	18 °C	CWB	19 °C	CWB	20 °C	CWB	22 °C	CWB	24 °	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							13.77	9.48	14.50	9.53	14.89	9.42	15.68	9.74	16.47	13.73
-10							13.34	9.29	14.04	9.33	14.41	9.23	15.16	9.55	15.92	13.27
-5							12.89	9.11	13.56	9.14	14.18	9.14	15.44	9.65	16.69	13.92
0					10.69	7.93	12.92	9.12	14.03	9.33	14.45	9.24	15.31	9.61	16.16	13.47
5					11.27	8.18	13.01	9.16	13.89	9.27	14.30	9.18	15.11	9.54	15.93	13.28
11					11.76	8.39	13.05	9.17	13.70	9.20	14.19	9.14	15.18	9.56	16.17	13.48
13					12.25	8.61	13.09	9.19	13.51	9.12	14.09	9.10	15.25	9.59	16.41	13.68
15					12.74	8.84	13.13	9.21	13.32	9.04	13.99	9.06	15.32	9.61	16.65	13.88
17					12.28	8.63	13.23	9.25	13.71	9.20	14.25	9.16	15.33	9.61	16.41	13.68
19					12.82	8.87	13.34	9.29	14.09	9.35	14.51	9.26	15.34	9.62	16.17	13.48
21					12.60	8.77	13.20	9.24	13.94	9.29	14.36	9.21	15.19	9.56	16.02	13.35
23					12.38	8.67	13.07	9.18	13.80	9.23	14.21	9.15	15.04	9.51	15.87	13.23
25			12.24	9.19	12.26	8.62	13.00	9.15	13.72	9.20	14.14	9.12	14.97	9.48	15.79	13.17
27			12.03	9.09	12.15	8.57	12.93	9.12	13.65	9.17	14.24	9.16	14.83	9.43		
29			11.77	8.96	11.87	8.44	12.64	9.00	13.36	9.06	13.95	9.05	14.53	9.33		
31			11.51	8.83	11.58	8.31	12.34	8.88	13.07	8.94	13.66	8.93	14.24	9.23		
33	9.77	7.80	10.52	8.36	11.29	8.19	12.05	8.76	12.79	8.83	13.37	8.82	13.95	9.13		
35	9.60	7.72	10.30	8.26	11.00	8.06	11.75	8.64	12.50	8.72	13.08	8.71	13.66	9.03		
37	9.49	7.66	10.14	8.18	10.79	7.97	11.47	8.53	12.15	8.58	12.68	8.56	13.21	8.87		
39	9.37	7.60	9.97	8.10	10.58	7.88	11.19	8.41	11.80	8.45	12.28	8.42	12.77	8.72		
41	9.25	7.55	9.81	8.03	10.36	7.78	10.91	8.30	11.45	8.31	11.89	8.27	12.32	8.58		
43	9.14	7.49	9.64	7.95	10.15	7.69	10.62	8.19	11.10	8.18	11.49	8.13	11.88	8.43		
46	8.96	7.40	9.40	7.84	9.83	7.56	10.20	8.03	10.57	7.98	10.89	7.92	11.21	8.22		
50	7.00	6.47	7.16	6.86	7.37	6.57	7.57	7.06	7.72	6.98	7.85	6.89	7.98	7.24		

Heating	Mode:	HC				(kW)
Out	door		Indoor	air temp	erature	;
air te	emp.			°CDB		
°CDB	°CWB	16	18	20	22	24
-19.8	-20	7.60	7.51	7.42	7.33	7.24
-17.7	-18	7.80	7.73	7.66	7.54	7.42
-15.7	-16	8.66	8.56	8.46	8.36	8.25
-13.5	-14	8.95	8.84	8.73	8.63	8.53
-11.5	-12	9.52	9.39	9.26	9.17	9.08
-9.5	-10	10.10	9.95	9.80	9.72	9.64
-7.5	-8	10.67	10.50	10.34	10.26	10.19
-5.5	-6	11.13	10.96	10.79	10.72	10.64
-3.0	-4	11.59	11.42	11.25	11.17	11.09
-1.0	-2	12.05	11.87	11.70	11.62	11.54
1.0	0	12.50	12.33	12.16	12.07	11.99
2.0	1	12.73	12.56	12.38	12.30	12.22
3.0	2	13.06	12.88	12.71	12.62	12.54
5.0	4	13.70	13.53	13.35	13.27	13.19
7.0	6	14.35	14.18	14.00	13.92	13.84
9.0	8	14.73	14.56	14.39	14.31	14.24
11.5	10	15.11	14.94	14.78	14.71	14.64
13.5	12	15.90	15.71	15.52	15.44	15.37
15.5	14	16.69	16.48	16.26	16.18	16.09
16.5	16	17.09	16.86	16.63	16.54	16.46

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(kW)

Model SRK125VSAWPZSX Indoor unit SRK60ZSX-W (2 units) Outdoor unit FDC125VSA-W

Cooling Mode (kW) Heating Mode : HC

0.44.							Indo	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
an temp.	12 °C	CWB	14 °C	CWB	16 °0	CWB	18 °C	CWB	19 °C	CWB	20 °C	CWB	22 °	CWB	24 °C	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							13.77	9.48	14.50	9.53	14.89	9.42	15.68	9.74	16.47	13.73
-10							13.34	9.29	14.04	9.33	14.41	9.23	15.16	9.55	15.92	13.27
-5							12.89	9.11	13.56	9.14	14.18	9.14	15.44	9.65	16.69	13.92
0					10.69	7.93	12.92	9.12	14.03	9.33	14.45	9.24	15.31	9.61	16.16	13.47
5					11.27	8.18	13.01	9.16	13.89	9.27	14.30	9.18	15.11	9.54	15.93	13.28
11					11.76	8.39	13.05	9.17	13.70	9.20	14.19	9.14	15.18	9.56	16.17	13.48
13					12.25	8.61	13.09	9.19	13.51	9.12	14.09	9.10	15.25	9.59	16.41	13.68
15					12.74	8.84	13.13	9.21	13.32	9.04	13.99	9.06	15.32	9.61	16.65	13.88
17					12.28	8.63	13.23	9.25	13.71	9.20	14.25	9.16	15.33	9.61	16.41	13.68
19					12.82	8.87	13.34	9.29	14.09	9.35	14.51	9.26	15.34	9.62	16.17	13.48
21					12.60	8.77	13.20	9.24	13.94	9.29	14.36	9.21	15.19	9.56	16.02	13.35
23					12.38	8.67	13.07	9.18	13.80	9.23	14.21	9.15	15.04	9.51	15.87	13.23
25			12.24	9.19	12.26	8.62	13.00	9.15	13.72	9.20	14.14	9.12	14.97	9.48	15.79	13.17
27			12.03	9.09	12.15	8.57	12.93	9.12	13.65	9.17	14.24	9.16	14.83	9.43		
29			11.77	8.96	11.87	8.44	12.64	9.00	13.36	9.06	13.95	9.05	14.53	9.33		
31			11.51	8.83	11.58	8.31	12.34	8.88	13.07	8.94	13.66	8.93	14.24	9.23		
33	9.77	7.80	10.52	8.36	11.29	8.19	12.05	8.76	12.79	8.83	13.37	8.82	13.95	9.13		
35	9.60	7.72	10.30	8.26	11.00	8.06	11.75	8.64	12.50	8.72	13.08	8.71	13.66	9.03		
37	9.49	7.66	10.14	8.18	10.79	7.97	11.47	8.53	12.15	8.58	12.68	8.56	13.21	8.87		
39	9.37	7.60	9.97	8.10	10.58	7.88	11.19	8.41	11.80	8.45	12.28	8.42	12.77	8.72		
41	9.25	7.55	9.81	8.03	10.36	7.78	10.91	8.30	11.45	8.31	11.89	8.27	12.32	8.58		
43	9.14	7.49	9.64	7.95	10.15	7.69	10.62	8.19	11.10	8.18	11.49	8.13	11.88	8.43		
46	8.96	7.40	9.40	7.84	9.83	7.56	10.20	8.03	10.57	7.98	10.89	7.92	11.21	8.22		
50	7.00	6.47	7.16	6.86	7.37	6.57	7.57	7.06	7.72	6.98	7.85	6.89	7.98	7.24		

Outdoor Indoor air temperature											
Outo	loor		Indoor	air temp	erature						
air te	emp.			°CDB							
°CDB	°CWB	16	18	20	22	24					
-19.8	-20	7.60	7.51	7.42	7.33	7.24					
-17.7	-18	7.80	7.73	7.66	7.54	7.42					
-15.7	-16	8.66	8.56	8.46	8.36	8.25					
-13.5	-14	8.95	8.84	8.73	8.63	8.53					
-11.5	-12	9.52	9.39	9.26	9.17	9.08					
-9.5	-10	10.10	9.95	9.80	9.72	9.64					
-7.5	-8	10.67	10.50	10.34	10.26	10.19					
-5.5	-6	11.13	10.96	10.79	10.72	10.64					
-3.0	-4	11.59	11.42	11.25	11.17	11.09					
-1.0	-2	12.05	11.87	11.70	11.62	11.54					
1.0	0	12.50	12.33	12.16	12.07	11.99					
2.0	1	12.73	12.56	12.38	12.30	12.22					
3.0	2	13.06	12.88	12.71	12.62	12.54					
5.0	4	13.70	13.53	13.35	13.27	13.19					
7.0	6	14.35	14.18	14.00	13.92	13.84					
9.0	8	14.73	14.56	14.39	14.31	14.24					
11.5	10	15.11	14.94	14.78	14.71	14.64					
13.5	12	15.90	15.71	15.52	15.44	15.37					
15.5	14	16.69	16.48	16.26	16.18	16.09					
16.5	16	17.09	16.86	16.63	16.54	16.46					

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Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously. These data show the case where the operation frequency of a compressor is fixed. (Cooling only)

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

(2) Capacities are based on the following conditions.

Corresponding refrigerant piping length: 7.5m

Level difference of Zero.

(3) Symbols are as follows
TC :Total cooling capacity (kW)
SHC :Sensible heat capacity (kW)

HC: Heating capacity (kW)

Model SRK140VNAWPZR Cooling Mode

Indoor unit SRK71ZR-W (2 units)

Outdoor unit FDC140VNA-W

Cooling M	lode							,								(kW
_							Ind	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
ан теттр.	12 °	CWB	14 °	CWB	16 °	CWB	18 °	CWB	19 °C	CWB	20 °C	CWB	22 °(CWB	24 °C	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							14.99	11.51	15.78	11.53	16.21	11.41	17.06	11.93	17.92	11.64
-10							14.51	11.33	15.27	11.35	15.68	11.23	16.50	11.75	17.32	11.46
-5							14.03	11.14	14.75	11.16	15.43	11.14	16.80	11.85	18.16	11.71
0					11.63	9.72	14.05	11.15	15.26	11.35	15.73	11.24	16.65	11.80	17.58	11.54
5					12.26	9.97	14.16	11.20	15.11	11.29	15.56	11.18	16.44	11.74	17.33	11.46
11					12.79	10.18	14.20	11.21	14.91	11.21	15.44	11.14	16.52	11.76	17.59	11.54
13					13.33	10.40	14.24	11.23	14.70	11.14	15.33	11.10	16.59	11.78	17.86	11.62
15					13.86	10.62	14.29	11.24	14.50	11.07	15.22	11.07	16.67	11.81	18.12	11.69
17					13.37	10.42	14.40	11.28	14.91	11.22	15.50	11.16	16.68	11.81	17.86	11.62
19					13.95	10.66	14.51	11.33	15.33	11.37	15.78	11.26	16.69	11.81	17.59	11.54
21					13.71	10.56	14.36	11.27	15.17	11.31	15.62	11.21	16.53	11.76	17.43	11.49
23					13.47	10.46	14.22	11.22	15.01	11.25	15.46	11.15	16.36	11.71	17.27	11.45
25			13.32	11.05	13.34	10.41	14.15	11.19	14.93	11.22	15.38	11.12	16.28	11.68	17.18	11.42
27			13.09	10.95	13.22	10.36	14.07	11.16	14.85	11.19	15.49	11.16	16.13	11.64		
29			12.81	10.82	12.91	10.23	13.75	11.04	14.54	11.08	15.18	11.05	15.81	11.54		
31			12.53	10.70	12.60	10.10	13.43	10.92	14.23	10.97	14.86	10.94	15.50	11.44		
33	10.63	9.45	11.45	10.22	12.28	9.98	13.11	10.80	13.91	10.86	14.55	10.83	15.18	11.34		
35	10.45	9.37	11.21	10.12	11.97	9.85	12.79	10.68	13.60	10.75	14.23	10.73	14.86	11.24		
37	10.32	9.31	11.03	10.05	11.74	9.76	12.48	10.57	13.22	10.61	13.80	10.58	14.38	11.09		
39	10.20	9.25	10.85	9.97	11.51	9.67	12.17	10.46	12.84	10.48	13.36	10.43	13.89	10.95		
41	10.07	9.20	10.67	9.89	11.28	9.58	11.87	10.35	12.45	10.35	12.93	10.29	13.41	10.80		
43	9.94	9.14	10.49	9.82	11.04	9.49	11.56	10.24	12.07	10.21	12.50	10.15	12.92	10.66		
46	9.75	9.05	10.22	9.70	10.70	9.35	11.10	10.08	11.50	10.02	11.85	9.94	12.20	10.45		
50	7.61	7.46	7.79	7.64	8.02	7.86	8.23	8.07	8.40	8.23	8.54	8.37	8.68	8.51		

Heating	Mode:	HC				(kW)
Out	door		Indoor	air temp	erature	;
air te	emp.			°CDB		
°CDB	°CWB	16	18	20	22	24
-19.8	-20	8.07	7.97	7.88	7.78	7.68
-17.7	-18	8.20	8.13	8.05	7.93	7.80
-15.7	-16	9.19	9.09	8.98	8.87	8.76
-13.5	-14	9.52	9.40	9.29	9.18	9.07
-11.5	-12	10.18	10.04	9.90	9.81	9.71
-9.5	-10	10.84	10.68	10.52	10.43	10.35
-7.5	-8	11.50	11.32	11.14	11.06	10.98
-5.5	-6	12.08	11.89	11.71	11.63	11.55
-3.0	-4	12.65	12.47	12.28	12.20	12.11
-1.0	-2	13.23	13.04	12.85	12.77	12.68
1.0	0	13.81	13.62	13.42	13.33	13.24
2.0	1	14.10	13.90	13.71	13.62	13.53
3.0	2	14.46	14.26	14.07	13.98	13.89
5.0	4	15.17	14.98	14.78	14.69	14.60
7.0	6	15.89	15.69	15.50	15.41	15.32
9.0	8	16.31	16.12	15.93	15.85	15.77
11.5	10	16.73	16.55	16.36	16.28	16.21
13.5	12	17.61	17.39	17.18	17.10	17.01
15.5	14	18.48	18.24	18.00	17.91	17.82
16.5	16	18.92	18.67	18.41	18.32	18.22

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Model SRK140VSAWPZR

Indoor unit SRK71ZR-W (2 units)

Outdoor unit FDC140VSA-W

Cooling M	lode							`								(kW)
0.44.					_		Inde	oor air t	empera	ture			_		_	
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
an temp.	12 °C	CWB	14 °0	CWB	16 °	CWB	18 °	CWB	19 °C	CWB	20 °C	CWB	22 °	CWB	24 °C	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							14.99	11.51	15.78	11.53	16.21	11.41	17.06	11.93	17.92	11.64
-10							14.51	11.33	15.27	11.35	15.68	11.23	16.50	11.75	17.32	11.46
-5							14.03	11.14	14.75	11.16	15.43	11.14	16.80	11.85	18.16	11.71
0					11.63	9.72	14.05	11.15	15.26	11.35	15.73	11.24	16.65	11.80	17.58	11.54
5					12.26	9.97	14.16	11.20	15.11	11.29	15.56	11.18	16.44	11.74	17.33	11.46
11					12.79	10.18	14.20	11.21	14.91	11.21	15.44	11.14	16.52	11.76	17.59	11.54
13					13.33	10.40	14.24	11.23	14.70	11.14	15.33	11.10	16.59	11.78	17.86	11.62
15					13.86	10.62	14.29	11.24	14.50	11.07	15.22	11.07	16.67	11.81	18.12	11.69
17					13.37	10.42	14.40	11.28	14.91	11.22	15.50	11.16	16.68	11.81	17.86	11.62
19					13.95	10.66	14.51	11.33	15.33	11.37	15.78	11.26	16.69	11.81	17.59	11.54
21					13.71	10.56	14.36	11.27	15.17	11.31	15.62	11.21	16.53	11.76	17.43	11.49
23					13.47	10.46	14.22	11.22	15.01	11.25	15.46	11.15	16.36	11.71	17.27	11.45
25			13.32	11.05	13.34	10.41	14.15	11.19	14.93	11.22	15.38	11.12	16.28	11.68	17.18	11.42
27			13.09	10.95	13.22	10.36	14.07	11.16	14.85	11.19	15.49	11.16	16.13	11.64		
29			12.81	10.82	12.91	10.23	13.75	11.04	14.54	11.08	15.18	11.05	15.81	11.54		
31			12.53	10.70	12.60	10.10	13.43	10.92	14.23	10.97	14.86	10.94	15.50	11.44		
33	10.63	9.45	11.45	10.22	12.28	9.98	13.11	10.80	13.91	10.86	14.55	10.83	15.18	11.34		
35	10.45	9.37	11.21	10.12	11.97	9.85	12.79	10.68	13.60	10.75	14.23	10.73	14.86	11.24		
37	10.32	9.31	11.03	10.05	11.74	9.76	12.48	10.57	13.22	10.61	13.80	10.58	14.38	11.09		
39	10.20	9.25	10.85	9.97	11.51	9.67	12.17	10.46	12.84	10.48	13.36	10.43	13.89	10.95		
41	10.07	9.20	10.67	9.89	11.28	9.58	11.87	10.35	12.45	10.35	12.93	10.29	13.41	10.80		
43	9.94	9.14	10.49	9.82	11.04	9.49	11.56	10.24	12.07	10.21	12.50	10.15	12.92	10.66		
46	9.75	9.05	10.22	9.70	10.70	9.35	11.10	10.08	11.50	10.02	11.85	9.94	12.20	10.45		L
50	7.61	7.46	7.79	7.64	8.02	7.86	8.23	8.07	8.40	8.23	8.54	8.37	8.68	8.51		<u> </u>

(kW)	Heatin	g Mode:	HC				(kW)
		tdoor		Indoor	air temp	perature	•
DB	air t	emp.			°CDB		
VВ	°CDB	°CWB	16	18	20	22	24
SHC	-19.8	-20	8.07	7.97	7.88	7.78	7.68
1.64	-17.7	-18	8.20	8.13	8.05	7.93	7.80
1.46	-15.7	-16	9.19	9.09	8.98	8.87	8.76
1.71	-13.5	-14	9.52	9.40	9.29	9.18	9.07
1.54	-11.5	-12	10.18	10.04	9.90	9.81	9.71
1.46	-9.5	-10	10.84	10.68	10.52	10.43	10.35
1.54	-7.5	-8	11.50	11.32	11.14	11.06	10.98
1.62	-5.5	-6	12.08	11.89	11.71	11.63	11.55
1.69	-3.0	-4	12.65	12.47	12.28	12.20	12.11
1.62	-1.0	-2	13.23	13.04	12.85	12.77	12.68
1.54	1.0	0	13.81	13.62	13.42	13.33	13.24
1.49	2.0	1	14.10	13.90	13.71	13.62	13.53
1.45	3.0	2	14.46	14.26	14.07	13.98	13.89
1.42	5.0	4	15.17	14.98	14.78	14.69	14.60
	7.0	6	15.89	15.69	15.50	15.41	15.32
	9.0	8	16.31	16.12	15.93	15.85	15.77
	11.5	10	16.73	16.55	16.36	16.28	16.21
	13.5	12	17.61	17.39	17.18	17.10	17.01
	15.5	14	18.48	18.24	18.00	17.91	17.82
	16.5	16	18.92	18.67	18.41	18.32	18.22

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Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed. (Cooling only)
In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

(2) Capacities are based on the following conditions.

(2) Capacities are based on the following condition
Corresponding refrigerant piping length: 7.5m
Level difference of Zero.

(3) Symbols are as follows
TC: Total cooling capacity (kW)
SHC: Sensible heat capacity (kW)
HC: Heating capacity (kW)

(c) Triple type

Model SRK140VNAWTZSX Indoor unit SRK50ZSX-W (3 units) Outdoor unit FDC140VNA-W Cooling Mode

000111118 11																(
							Inde	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
dii tomp.	12 °	CWB	14 °(CWB	16 °	CWB	18 °	CWB	19 °	CWB	20 °	CWB	22 °(CWB	24 °0	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							14.99	11.82	15.78	11.87	16.21	11.77	17.06	12.33	17.92	12.08
-10							14.51	11.63	15.27	11.68	15.68	11.58	16.50	12.14	17.32	11.89
-5							14.03	11.43	14.75	11.47	15.43	11.48	16.80	12.24	18.16	12.16
0					11.63	9.94	14.05	11.44	15.26	11.67	15.73	11.59	16.65	12.19	17.58	11.97
5					12.26	10.21	14.16	11.49	15.11	11.61	15.56	11.53	16.44	12.12	17.33	11.89
11					12.79	10.43	14.20	11.50	14.91	11.53	15.44	11.49	16.52	12.14	17.59	11.98
13					13.33	10.66	14.24	11.52	14.70	11.45	15.33	11.45	16.59	12.17	17.86	12.06
15					13.86	10.89	14.29	11.54	14.50	11.38	15.22	11.40	16.67	12.20	18.12	12.14
17					13.37	10.68	14.40	11.58	14.91	11.54	15.50	11.51	16.68	12.20	17.86	12.06
19					13.95	10.93	14.51	11.63	15.33	11.70	15.78	11.61	16.69	12.20	17.59	11.98
21					13.71	10.83	14.36	11.57	15.17	11.64	15.62	11.55	16.53	12.15	17.43	11.92
23					13.47	10.72	14.22	11.51	15.01	11.57	15.46	11.49	16.36	12.09	17.27	11.87
25			13.32	11.29	13.34	10.67	14.15	11.48	14.93	11.54	15.38	11.46	16.28	12.06	17.18	11.85
27			13.09	11.18	13.22	10.62	14.07	11.45	14.85	11.51	15.49	11.50	16.13	12.01	<u> </u>	
29			12.81	11.05	12.91	10.48	13.75	11.32	14.54	11.39	15.18	11.39	15.81	11.90		
31			12.53	10.92	12.60	10.35	13.43	11.20	14.23	11.27	14.86	11.27	15.50	11.80		
33	10.63	9.63	11.45	10.43	12.28	10.22	13.11	11.07	13.91	11.15	14.55	11.16	15.18	11.69		
35	10.45	9.55	11.21	10.32	11.97	10.09	12.79	10.94	13.60	11.03	14.23	11.04	14.86	11.58		
37	10.32	9.48	11.03	10.24	11.74	9.99	12.48	10.82	13.22	10.89	13.80	10.88	14.38	11.42		
39	10.20	9.42	10.85	10.16	11.51	9.89	12.17	10.71	12.84	10.75	13.36	10.73	13.89	11.26		
41	10.07	9.36	10.67	10.08	11.28	9.80	11.87	10.59	12.45	10.61	12.93	10.57	13.41	11.11	Ь	
43	9.94	9.30	10.49	10.00	11.04	9.70	11.56	10.47	12.07	10.47	12.50	10.42	12.92	10.95	Ь	
46	9.75	9.21	10.22	9.88	10.70	9.56	11.10	10.30	11.50	10.26	11.85	10.19	12.20	10.72	Ь	
50	7.61	7.46	7.79	7.64	8.02	7.86	8.23	8.07	8.40	8.23	8.54	8.37	8.68	8.51	1	1

(kW)	Пе		Mode:					(kW)
			door		Indoor	air temp	perature	:
DВ		air te	emp.			°CDB		
٧B	°(CDB	°CWB	16	18	20	22	24
SHC	-1	19.8	-20	8.07	7.97	7.88	7.78	7.68
2.08	-1	17.7	-18	8.20	8.13	8.05	7.93	7.80
1.89	-1	15.7	-16	9.19	9.09	8.98	8.87	8.76
2.16	-1	13.5	-14	9.52	9.40	9.29	9.18	9.07
1.97	-1	11.5	-12	10.18	10.04	9.90	9.81	9.71
1.89	-	9.5	-10	10.84	10.68	10.52	10.43	10.35
1.98	Ŀ	7.5	-8	11.50	11.32	11.14	11.06	10.98
2.06	-	5.5	-6	12.08	11.89	11.71	11.63	11.55
2.14	F	3.0	-4	12.65	12.47	12.28	12.20	12.11
2.06	Г	1.0	-2	13.23	13.04	12.85	12.77	12.68
1.98	Г	1.0	0	13.81	13.62	13.42	13.33	13.24
1.92		2.0	1	14.10	13.90	13.71	13.62	13.53
1.87	- (3.0	2	14.46	14.26	14.07	13.98	13.89
1.85		5.0	4	15.17	14.98	14.78	14.69	14.60
		7.0	6	15.89	15.69	15.50	15.41	15.32
	-	9.0	8	16.31	16.12	15.93	15.85	15.77
	1	1.5	10	16.73	16.55	16.36	16.28	16.21
	1	3.5	12	17.61	17.39	17.18	17.10	17.01
	1	5.5	14	18.48	18.24	18.00	17.91	17.82
	1	6.5	16	18.92	18.67	18.41	18.32	18.22

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Model SRK140VSAWTZSX

Indoor unit SRK50ZSX-W (3 units)

Outdoor unit FDC140VSA-W

Cooling M	lode															(kV
							Ind	oor air t	empera	iture	_					
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
ali terrip.	12 °	CWB	14 °	CWB	16 °	CWB	18 °	CWB	19 °	CWB	20 °	CWB	22 °	CWB	24 °	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							14.99	11.82	15.78	11.87	16.21	11.77	17.06	12.33	17.92	12.08
-10							14.51	11.63	15.27	11.68	15.68	11.58	16.50	12.14	17.32	11.89
-5							14.03	11.43	14.75	11.47	15.43	11.48	16.80	12.24	18.16	12.16
0					11.63	9.94	14.05	11.44	15.26	11.67	15.73	11.59	16.65	12.19	17.58	11.97
5					12.26	10.21	14.16	11.49	15.11	11.61	15.56	11.53	16.44	12.12	17.33	11.89
11					12.79	10.43	14.20	11.50	14.91	11.53	15.44	11.49	16.52	12.14	17.59	11.98
13					13.33	10.66	14.24	11.52	14.70	11.45	15.33	11.45	16.59	12.17	17.86	12.06
15					13.86	10.89	14.29	11.54	14.50	11.38	15.22	11.40	16.67	12.20	18.12	12.14
17					13.37	10.68	14.40	11.58	14.91	11.54	15.50	11.51	16.68	12.20	17.86	12.06
19					13.95	10.93	14.51	11.63	15.33	11.70	15.78	11.61	16.69	12.20	17.59	11.98
21					13.71	10.83	14.36	11.57	15.17	11.64	15.62	11.55	16.53	12.15	17.43	11.92
23					13.47	10.72	14.22	11.51	15.01	11.57	15.46	11.49	16.36	12.09	17.27	11.87
25			13.32	11.29	13.34	10.67	14.15	11.48	14.93	11.54	15.38	11.46	16.28	12.06	17.18	11.85
27			13.09	11.18	13.22	10.62	14.07	11.45	14.85	11.51	15.49	11.50	16.13	12.01		
29			12.81	11.05	12.91	10.48	13.75	11.32	14.54	11.39	15.18	11.39	15.81	11.90		
31			12.53	10.92	12.60	10.35	13.43	11.20	14.23	11.27	14.86	11.27	15.50	11.80		
33	10.63	9.63	11.45	10.43	12.28	10.22	13.11	11.07	13.91	11.15	14.55	11.16	15.18	11.69		
35	10.45	9.55	11.21	10.32	11.97	10.09	12.79	10.94	13.60	11.03	14.23	11.04	14.86	11.58		
37	10.32	9.48	11.03	10.24	11.74	9.99	12.48	10.82	13.22	10.89	13.80	10.88	14.38	11.42		<u> </u>
39	10.20	9.42	10.85	10.16	11.51	9.89	12.17	10.71	12.84	10.75	13.36	10.73	13.89	11.26		
41	10.07	9.36	10.67	10.08	11.28	9.80	11.87	10.59	12.45	10.61	12.93	10.57	13.41	11.11		<u> </u>
43	9.94	9.30	10.49	10.00	11.04	9.70	11.56	10.47	12.07	10.47	12.50	10.42	12.92	10.95		<u> </u>
46	9.75	9.21	10.22	9.88	10.70	9.56	11.10	10.30	11.50	10.26	11.85	10.19	12.20	10.72		<u> </u>
50	7.61	7.46	7.79	7.64	8.02	7.86	8.23	8.07	8.40	8.23	8.54	8.37	8.68	8.51		1

(kW)	/) Heating Mode:HC (kW) Outdoor Indoor air temperature												
	П	Out	door		Indoor	air temp	erature	;					
DВ	П	air te	emp.			°CDB							
VB	П	°CDB	°CWB	16	18	20	22	24					
SHC	П	-19.8	-20	8.07	7.97	7.88	7.78	7.68					
2.08	П	-17.7	-18	8.20	8.13	8.05	7.93	7.80					
1.89	П	-15.7	-16	9.19	9.09	8.98	8.87	8.76					
2.16	П	-13.5	-14	9.52	9.40	9.29	9.18	9.07					
1.97	П	-11.5	-12	10.18	10.04	9.90	9.81	9.71					
1.89	П	-9.5	-10	10.84	10.68	10.52	10.43	10.35					
1.98	П	-7.5	-8	11.50	11.32	11.14	11.06	10.98					
2.06	П	-5.5	-6	12.08	11.89	11.71	11.63	11.55					
2.14	П	-3.0	-4	12.65	12.47	12.28	12.20	12.11					
2.06	П	-1.0	-2	13.23	13.04	12.85	12.77	12.68					
1.98	П	1.0	0	13.81	13.62	13.42	13.33	13.24					
1.92	П	2.0	1	14.10	13.90	13.71	13.62	13.53					
1.87	П	3.0	2	14.46	14.26	14.07	13.98	13.89					
1.85	П	5.0	4	15.17	14.98	14.78	14.69	14.60					
	П	7.0	6	15.89	15.69	15.50	15.41	15.32					
	Ш	9.0	8	16.31	16.12	15.93	15.85	15.77					
	Ш	11.5	10	16.73	16.55	16.36	16.28	16.21					
	Ш	13.5	12	17.61	17.39	17.18	17.10	17.01					
	Ш	15.5	14	18.48	18.24	18.00	17.91	17.82					
	Ш	16.5	16	18.92	18.67	18.41	18.32	18.22					

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Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed. (Cooling only)
In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

(2) Capacities are based on the following conditions.

Corresponding refrigerant piping length :7.5m Level difference of Zero.

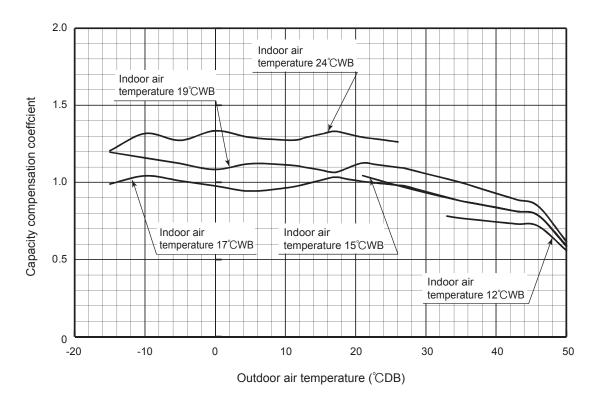
(3) Symbols are as follows
TC: Total cooling capacity (kW)
SHC: Sensible heat capacity (kW)
HC: Heating capacity (kW)

[References data]

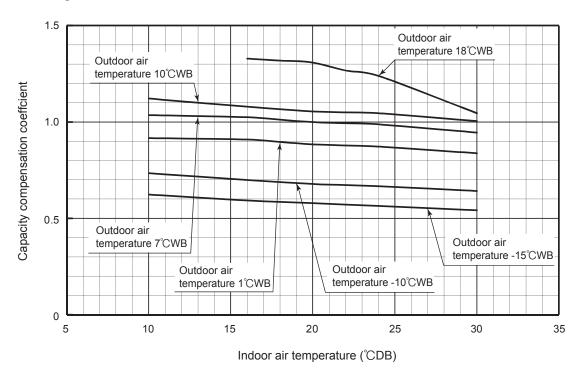
Capacity variation against outdoor and indoor temperature at rated capacity condition.

$(I) \ \ \ \widehat{\text{Models FDC100, 125, 140VNA-W, 100, 125, 140VSA-W}}$

1 Cooling



2 Heating



1.9.2 Correction of cooling and heating capacity in relation to air flow rate control (Fan speed)

Fan speed	P-Hi or Hi	Me	Lo
Coefficient	1.00	0.97	0.95

1.9.3 Correction of cooling and heating capacity in relation to one way length of refrigerant piping

It is necessary to correct the cooling and heating capacity in relation to the one way equivalent piping length between the indoor and outdoor units.

Models 100 - 140

Equivale	Equivalent piping length (1)(m)				15	20	25	30	35	40	45	50	55
Heating			1	1	1	1	1	0.998	0.998	0.993	0.993	0.988	0.988
	100 model		1	0.991	0.978	0.964	0.951	0.937	0.924	0.910	0.897	0.883	0.870
	125 model	ϕ 15.88	1	0.986	0.968	0.950	0.932	0.914	0.896	0.878	0.860	0.842	0.824
Cooling	140 model		1	0.985	0.966	0.946	0.927	0.907	0.888	0.868	0.849	0.829	0.810
Cooming	100 model		1.016	1.013	1.007	1.002	0.996	0.991	0.985	0.980	0.974	0.969	0.963
	125 model	φ 19.05	1.022	1.018	1.009	1.001	0.992	0.984	0.975	0.967	0.958	0.950	0.941
	140 model		1.026	1.021	1.011	1.002	0.992	0.983	0.973	0.964	0.954	0.945	0.935

Note (1) Calculate the equivalent length using the following formula.

However, install the piping so that the piping length is within +5 m of the limit length (actual length) for the respective types.

• Equivalent length =Actual length + (Equivalent bend length x number of bends in the piping.) Equivalent length per bend.

Gas pipe diameter (mm)	φ 12.7	φ 15.88	φ 19.05	φ 22.22	ϕ 25.4	ϕ 28.58
Equivalent bend length	0.20	0.25	0.30	0.35	0.40	0.45

1.9.4 Height difference between the indoor unit and outdoor unit

When the outdoor unit is located below indoor units in cooling mode, or when the outdoor unit is located above indoor units in heating mode, the correction coefficient mentioned in the below table should be subtracted from the value in the above table.

Height difference between the indoor unit and outdoor unit in the vertical height difference	5m	10m	15m	20m	25m	30m
Adjustment coefficient	0.99	0.98	0.97	0.96	0.95	0.94

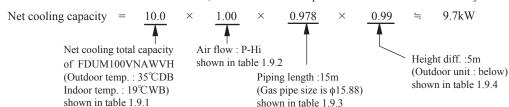
Piping length limitations

Item Model	100, 125, 140		
Max. one way piping length	50m		
Max. vertical height difference	Outdoor unit is higher 50m Outdoor unit is lower 15m		

Note (1) Values in the table indicate the one way piping length between the indoor and outdoor units.

How to obtain the cooling and heating capacity

Example : The net cooling capacity of the model FDUM100VNAWVH with the air flow "P-High", the piping length of 15m, the outdoor unit located 5m lower than the indoor unit, indoor wet-bulb temperature at 19.0° C and outdoor dry-bulb temperature 35° C is



1.10 APPLICATION DATA

1.10.1 Installation of indoor unit

(1) Ceiling cassette-4 way type(FDT)

This manual is for the installation of the indoor unit.

For electrical wiring work (Indoor unit), refer to page 195. For remote control installation, refer to page 199. For wireless kit installation, refer to page 354. For electrical wiring work (Outdoor unit) and refriger ant pipe work installation for outdoor unit, refer to page 211. For motion sensor kit installation, refer to page 386. This unit must always be used with the panel.

SAFETY PRECAUTIONS

- Read the "SAFETY PRECAUTIONS" carefully first of all and then strictly follow it during the installation work in order to protect yourself.
- The precautionary items mentioned below are distinguished into two levels, [AWARNING] and [ACAUTION]. AWARNING: Wrong installation would cause serious consequences such as injuries or death. ACAUTION: Wrong installation might cause serious consequences depending on circumstances Both mentions the important items to protect your health and safety so strictly follow them by any means.
- After completing the installation, do commissioning to confirm there are no abnormalities, and explain to the customers about "SAFETY PRECAUTIONS", correct operation method and maintenance method (air filter cleaning, operation method and temperature setting method) with user's manual of this unit. Ask your customers to keep this installation manual together with the user's manual. Also, ask them to hand over the user's manual to the new user when the owner is changed.

MARNING MARNING

Installation should be performed by the specialist.

If you install the unit by yourself, it may lead to serious trouble such as water leakage, electric shock, fire, and injury due to overturn of the unit.



● Check the density refered by the foumula (accordance with ISO5149).

If the density exceeds the limit density, please consult the dealer and installate the ventilation system

Use the genuine accessories and the specified parts for installation. If parts unspecified by our company are used it could cause water leakage, electric shock, fire, and injury due to overturn of the unit

Ventilate the working area well in case the refrigerant leaks during installation.

If the refrigerant contacts the fire, toxic gas is produced

In case of R32, the refrigerant could be ignited because of its flammability

●Install the unit in a location that can hold heavy weight. Improper installation may cause the unit to fall leading to accidents

• Install the unit properly in order to be able to withstand strong winds such as typhoons, and earthquakes ion may cause the unit to fall leading to accide

Do not mix air in to the cooling cycle on installation or removal of the air conditioner.

If air is mixed in, the pressure in the cooling cycle will rise abnormally and may cause explosion and injuri Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circuit.

Power source with insufficient capacity and improper work can cause electric shock and fire.

• Use specified wire for electrical wiring, fasten the wiring to the terminal securely, and hold the cable securely in order not to apply unexpected stress on the terminal.

Loose connections or hold could result in abnormal heat generation or fire • Arrange the electrical wires in the control box properly to prevent them from rising. Fit the lid of the services

Improper fitting may cause abnormal heat and fire

Check for refrigerant gas leakage after installation is completed. If the refrigerant gas leaks into the house and comes in contact with a fan heater, a stove, or an oven, toxic gas is produced

■ Use the specified pipe, flare nut, and tools for R32 or R410A

Using existing parts (R22) could cause the unit failure and serious accident due to explosion of the cooling cycle Tighten the flare nut according to the specified method by with torque wrench.

If the flare nut were tightened with excess torque, it could cause burst and refrigerant leakage after a long period

lacktriangle Do not put the drainage pipe directly into drainage channels where poisonous gases such as sulfide gas can

Poisonous gases will flow into the room through drainage pipe and seriously affect the user's health and safety. This can also

• Connect the pipes for refrigeration circuit securely in installation work before compressor is operated. If the compressor is operated when the service valve is open without connecting the pipe, it could cause explosion and injuries due

to abnormal high pressure in the system. Stop the compressor before removing the pipe after shutting the service valve on pump down work.

If the pipe is removed when the compressor is in operation with the service valve open, air would be mixed in the refrigeration circuit and it could cause explosion and injuries due to abnormal high pressure in the cooling cycle.

• Only use prescribed optional parts. The installation must be carried out by the qualified installer.

0 If you install the system by yourself, it can cause serious trouble such as water leaks, electric shocks, fire

● Do not repair by yourself. And consult with the dealer about repair mproper repair may cause water leakage, electric shock or fir

cause the corrosion of the indoor unit and a resultant unit failure or refrigerant leak

Consult the dealer or a specialist about removal of the air conditioner.

Improper installation may cause water leakage, electric shock or fire

Turn off the power source during servicing or inspection work. If the power is supplied during servicing or inspection work, it could cause electric shock and injury by the operating fan

• Do not run the unit when the panel or protection guard are taken off.

Touching the rotating equipment, hot surface, or high voltage section could cause an injury to be caught in the machine, to get urned, or electric shock.

Shut off the power before electrical wiring work.

It could cause electric shock, unit failure and improper running

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∧ CAUTION

Perform earth wiring surely.

Do not connect the earth wiring to the gas pipe, water pipe, lightning rod and telephone earth wiring. Improper earth could cause unit failure and electric shock due to a short circuit.

Earth leakage breaker must be installed

If the earth leakage breaker is not installed, it can cause electric shocks

Use the circuit breaker of correct capacity. Circuit breaker should be the one that disconnect all

Using the incorrect one could cause the system failure and fire.

Do not use any materials other than a fuse of correct capacity where a fuse should be used.

It could cause the damage of the items. Do not install nor use the system near equipments which generate electromagnetic wave or high harmonics.

Equipments like inverter equipment, private power generator, high-frequency medical equipment, or telecommunication equipment might influence the air conditioner and cause a malfunction and breakdown. Or the air conditioner might influence medical equipments or telecommunication equipments, and obstruct their medical activity or cause jamming.

It could cause breakdown or deformation of the remote control

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If sputter entered into the unit during brazing work, it could cause damage (pinhole) of drain pan and leakage of water. To avoid damaging, keep the indoor unit packed or cover the indoor unit.

and not to make air-bleeding.

Ensure the insulation on the pipes for refrigeration circuit so as not to condense water.

Incomplete insulation could cause condensation and it would wet ceiling, floor, and any other valuable

keep the surroundings clean.

It could cause fire or water leakage. In addition, the fan may start operation unexpectedly and it may cause injury

Connecting the circuit by wire or copper wire could cause unit failure and fire Do not install the indoor unit near the location where there is possibility of flammable gas leakages. If the gas leaks and gathers around the unit, it could cause fire. Do not install and use the unit where corrosive gas (such as sulfurous acid gas etc.)
or flammable gas (such as thinner, petroleum etc.) may be generated or accumulate
it could be sprayed with chemicals, or volatile flammable substances are handled. It could cause the corrosion of heat exchanger, breakage of plastic parts etc. And inflammable gas could cause fire Secure a space for installation, inspection and maintenance specified in the manual. Ø Insufficient space can result in accident such as personal injury due to falling from the installation place Do not use the indoor unit at the place where water splashes such as laundry. Indoor unit is not waterproof. It could cause electric shock and fire. Do not use the indoor unit for a special purpose such as food storage, cooling for precision instrument, preservation of animals, plants, and a work of art. Do not install the remote control at the direct sunlight. Do not install the indoor unit at the place listed below Places where cosmetics or special sprays are Places where flammable gas could leak. Places where carbon fiber, metal powder or any powder is floated. frequently used. Highly salted area such as beach. Heavy snow area Place where the substances which affect the air conditioner are generated such as sulfide gas, chloride gas, acid, alkali or ammonic atmospheres. Places exposed to oil mist or steam directly Places where the system is affected by On vehicles and shins Places where machinery which generates high harmonics is used. Altitude over 1000m Do not install the indoor unit in the locations listed below (Be sure to install the indoor unit secording to the installation manual for each model because each indoor unit has each limitation)
Locations with any obstacles which can prevent inlet and
Locations where vibration can be amplified due to

On the installation manual for each model because each indoor unit has each limitation)

Do not install the motion sensor mounting panel at following pla
to cold cause electric energy, incapacity of detection, or
characteristic degradation. characteristic degradation.

• Place where vibration is applied to it for a long period of time insufficient strength of structure.

Locations where the infrared receiver is exposed to the Place where static electricity or electromagnetic wave generates Place where it is exposed to high temperature or humidity for a direct sunlight or the strong light beam. (in case of the infrared specification unit) long period of time. Locations where an equipment affected by high harmonics is • Dusty place or where the lens face could be fouled or damaged placed. (TV set or radio receiver is placed within 5m) Locations where drainage cannot run off safely.
 It can affect performance or function and etc.. Do not put any valuables which will break down by getting wet under the air conditioner. lensation could drop when the relative humidity is higher than 80% or drain pipe is clogged, and it damages user's belongings. Do not use the base frame for the outdoor unit which is corroded or damaged after a long period of use. It could cause the unit falling down and injury. Pay attention not to damage the drain pan by weld sputter when brazing work is done near the unit. a Install the drain pipe to drain the water surely according to the installation manual. Water may drip in the room, damaging user's belongings, unless it is worked as instructed Be sure to perform air tightness test by pressurizing with nitrogen gas after completed refrigerant piping work. If the density of refrigerant exceeds the limit in the event of refrigerant leakage in the small room, lack of oxygen can 0 occur, which can cause serious accidents For drain pipe installation, be sure to make descending slope of greater than 1/100, not to make traps 0 Check if the drainage is correctly done during commissioning and ensure the space for inspection and maintenance Ø Do not install the outdoor unit where is likely to be a nest for insects and small animals. Insects and small animals could come into the electronic components and cause breakdown and fire. Instruct the user to Pay extra attention, carrying the unit by hand. Carry the unit with 2 people if it is heavier than 20kg. Do not use the plastic straps but the grabbing place, moving the unit by hand. Use protective gloves in order to avoid injury. Make sure to dispose of the packaging material. O Leaving the materials may cause injury as metals like nail and woods are used in the package Do not operate the system without the air filter. It may cause the breakdown of the system due to clogging of the heat exchanger Do not touch any button with wet hands. It could cause electric shock Do not touch the refrigerant piping with bare hands when in operation. The pipe during operation would become very hot or cold according to the operating condition, and it could cause a burn or frostbits Do not clean up the air conditioner with water, and do not spray disinfectants etc. directly over the air condition It could cause electrical shock or corrode parts. Do not turn off the power source immediately after stopping the operation. Be sure to wait for more than 5 minutes. Otherwise it could cause water leakage or breakdow Do not control the operation with the circuit breaker

1Before installation

- ●Install correctly according to the installation manual. When moving the indoor unit, hold only
- Confirm the following points:

OUnit type/Power supply specification OPipes/Wires/Small parts OAccessory items the hanging hardware (4 places) only with care not to apply forces to any other parts of the unit (particularly the refriger ant pipe, drain pipe, and resin parts).

Accessory item

For un	it hanging	For refrigerant pipe		For drain pipe				
Flat washer (M10)	Level gauge	Pipe cover(big)	Pipe cover (small)	Strap	Pipe cover(big)	Pipe cover(small)	Drain hose	Hose clamp
0	000 000 000 000				0	0		Ö
8	1	1	1	4	1	1	1	1
For unit hanging	For unit hight position adjustment and hanging suport	For heat insulation of gas pipe	For heat insulation of liquid tube	For pipe cover fixing	For heat insulation of drain socket	For heat insulation of drain socket	For drain pipe connecting	For drain hose mounting

2Selection of installation location for the indoor unit

- ① Select the suitable areas to install the unit under approval of the user.
 - Areas where the indoor unit can deliver hot and cold wind sufficiently. Suggest to the user to use a circulator if the ceiling height is over 3m to avoid warm air being accumulated on the ceiling
 - In case of the panel having the motion sensor, the installation height must be no higher than 4 m. It could reduce the sensitivity of motion sensor, disabling the detection.

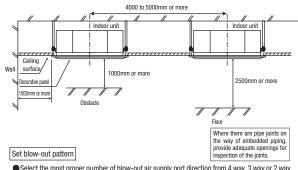
 Areas where there is enough space to install and service.

 - Areas where it can be drained properly. Areas where drain pipe descending slope can be taken.
 - Areas where there is no obstruction of airflow on both air return grille and air supply port. · Areas where fire alarm will not be accidentally activated by the air conditioner
 - · Areas where the supply air does not short-circuit.
 - · Areas where it is not influenced by draft air
 - · Areas not exposed to direct sunlight.
 - Areas where dew point is lower than around 28°C and relative humidity is lower than 80%. This indoor unit is tested under the condition of JIS (Japan Industrial Standard) high humidity condition and confirmed there is no problem. However, there is some risk of condensation drop if the air conditioner is operated under the severer condition than mentioned ahove
 - If there is a possibility to use it under such a condition, attach additional insulation of 10 to
 - 20mm thick for entire surface of indoor unit, refrigeration pipe and drain pipe.

 Areas where TV and radio stays away more than 1m. (It could cause jamming and noise.)
 - · Areas where any items which will be damaged by getting wet are not placed such as food, table wares, server, or medical equipment under the unit.
 - Areas where there is no influence by the heat which cookware generates.
 - · Areas where not exposed to oil mist, powder and/or steam directly such as above fryer.
 - · Areas where lighting device such as fluorescent light or incandescent light doesn't affect the
 - (A beam from lighting device sometimes affects the infrared receiver for the wireless remote control and the air conditioner might not work properly.)
- 2Check if the place where the air conditioner is installed can hold the weight of the unit. If it is not able to hold, reinforce the structure with boards and beams strong enough to hold it. If the strength is not enough, it could cause injury due to unit falling.
- (3) If there are 2 units of wireless type, keep them away for more than 6m to avoid malfunction due to cross communication.
- (4) When plural indoor units are installed nearby, keep them away for more than 4 to 5m.

Space for installation and service

- When it is not possible to keep enough space between indoor unit and wall or between indoor units, close the air supply port where it is not possible to keep space and confirm there is no short circuit of airflow
- ■Install the indoor unit at a height of more than 2.5m above the floor.



- Select the most proper number of blow-out air supply port direction from 4 way, 3 way or 2 way according to the shape of the room and installation position. (1 way is not available.)
- If it is necessary to change the number of air supply port, prepare the covering materials. (sold as accessory)
- ●Instruct the user not to use low fan speed when 2way or 3way air supply is used.
- Do not use 2way air supply port under high temperature and humidity environment. (Otherwise it could cause condensation and leakage of water.)
- It is possible to set the airflow direction port by port independently. Refer to the user's manual for details

3 Preparation before installation

- If suspension bolt becomes longer, do reinforcement of earthquake resistant.
- OFor arid ceiling

When suspension bolt length is over 500mm, or the gap between the ceiling and roof is over 700mm, apply earthquake resistant brace to the bolt.

Oln case the unit is hanged directly from the slab and is installed on the ceiling plane which has enough strength

When suspension bolt length is over 1000mm, apply the earthquake resistant brace to the bolt.

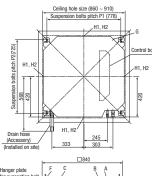
Prepare four (4) sets of suspension bolt, nut and spring washer (M10 or M8) on site.

Ceiling opening, Suspension bolts pitch, Pipe position * It is possible the suspension bolts pitch to

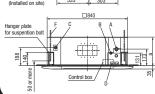
adjust accoding to the this table

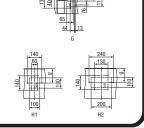
,	Single Split series		
Mark	P1 P2		361163
Туре		FZ	VRF (KX series
1	770	725~770	581162
2	770~800	725	

,						(mm)
Series	Туре	а	d	f	g	h
ingle Split (PAC) series	40 to 71 type	236	37	105	88	67
	100 to 140 type	298	99	167	140	129
VRF (KX) series	28 to 71 type	236	37	105	88	67
	90 to 160 type	298	99	167	140	129





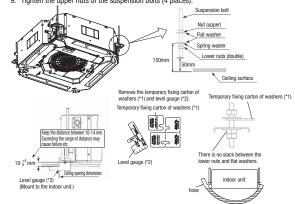




(4) Installation of indoor unit

Work procedure

- Set the suspension bolt length to about 50 mm from the ceiling.
- Temporarily locate the lower nuts of the suspension bolts (4 places) at a position approximately 150 mm from the ceiling.
- Temporarily locate the upper nuts of the suspension bolts (4 places) at positions sufficiently distance from the lower nuts so that they do not interfere with the suspension of the indoor unit and with its height adjustment.
- 4. Set the upper nuts of the suspension bolts and upper washers (4 places) at positions sufficiently distance from the lower nuts. Then, push and insert the temporary fixing carton of washers (*1) onto suspension bolts. Make sure that the upper washers do not slide down.
- 5. Suspend the indoor unit.
- 6. After suspending the indoor unit, mount the level gauge (*2) to the air outlet of the indoor unit, and adjust the suspension height of the indoor unit. Loosen the upper nuts (4 places), and adjust the suspension height using the lower nuts (4 places). Confirm there is no slack between the lower nuts and flat washers of the indoor unit hanger plate (4 places).
- Remove the temporary fixing carton of washers (from all 4 places)
- 8. Make sure that the indoor unit is installed horizontally. Confirm the levelness of the indoor unit using a level gauge or transparent hose filled with water. (Keep the height difference at both ends of the indoor unit within 3 mm.)
- 9. Tighten the upper nuts of the suspension bolts (4 places).



(4) Installation of indoor unit (continued)

Protection of the indoor unit

If it is not possible to install the panel for a while or if attaching the ceiling board after installing the indoor unit, protect the indoor unit by using upper carton



Caution

- Do not adjust the unit height by adjusting the upper nuts. Doing so will cause unexpected stress on the indoor unit and cause the unit to become deformed, prevent the panel from being installed, and be generated fan interference noise
- Make sure that the indoor unit is installed horizontally and set the appropriate gap between the underside of the unit and the ceiling plane. Improper installation may cause air leakage, dew condensation, water leakage and noise.
- Even after the panel has been installed, the unit height can still be finely adjusted. Refer to the panel installation manual for details.
- Make sure there is no gap between the panel and the ceiling surface, and between the panel and the indoor unit. Any gap may cause air and/or water to leak, or condensation to

5Refrigerant pipe

Caution

Be sure to use new pines for the refrigerant pines. Use the flare out attached to the product. be sure to use new pipes for the territyer and pipes. Use the hall Regarding whether existing pipes can be reused or not, and the washing methol unit, catalogue or technical data. 1) In case of reuse: Do not use old flare nut, but use the nut attached to the unit.

2) In case of reuse: Flare the end of pipe replaced partially for R32 or R410A.

[AWARNING]: When flared joints are reused indoors, the flare part shall be re-fabricated. (only for R32)



		Protruding dimer	nsion for flare, mm				
Pipe dia.	Min. pipe wall thickness	Rigid (Clutch type)		Rigid (Clutch type)		Flare O.D.	Flare nut tightening torque
d mm	mm	For R32 For R410A	Conventional tool	mm	N-m		
6.35	0.8			8.9 ~ 9.1	14 ~ 18		
9.52	0.8					12.8 ~ 13.2	34 ~ 42
12.7	0.8	0 ~ 0.5	0.7 ~ 1.3	16.2 ~ 16.6	49 ~ 61		
15.88	1			19.3 ~ 19.7	68 ~ 82		
19.05	1.2			23.6 ~ 24.0	100 ~ 120		

- Use phosphorus deoxidized copper alloy seamless pipe (C1220T) for refrigeration pipe installation. In addition, make sure there is no damage both inside and outside of the pipe, and no harmful substances such as sulfur, oxide, dust or a contaminant stuck on the pipes.
- Do not use any refrigerant other than the designated refrigerant. Using other refrigerant except the designated refrigerant, may degrade inside refrigeration oil. And air
- getting into refrigeration circuit may cause over-pressure and resultant it may result in bursting, etc.

 Store the copper pipes indoors and seal the both end of them until they are brazed in order to avoid any dust, dirt or water getting into pipe. Otherwise it will cause degradation of refrigeration oil and compressor breakdown, etc.
- Use special tools for R32 or R410A refrigerant.

Work procedure

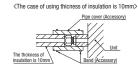
- Remove the flare nut and blind flanges on the pipe of the indoor unit
 - * Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them. (Gas may come out at this time, but it is not abnormal.)
- Pay attention whether the flare nut pops out. (as the indoor unit is sometimes pressured.)
 Make a flare on liquid pipe and gas pipe, and connect the refrigeration pipes on the indoor unit. * Bend radius of pipe must be 4D or larger. Once a pipe is bent, do not readjust the bending.
 - Do not twist a pipe or collapse to 2/3D or smaller Make sure to use flare nuts assembled on the unions Usage of other flare nuts could cause refrigerant
 - * Do a flare connection as follows:
 - Make sure to hold the nut on indoor unit pipe side using double spanner method as indicated when fastening / loosening flare nuts in order to prevent unintentional twisting of the copper pipe.

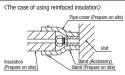
 When fastening the flare nut, align the refrigeration
 - pipe with the center of flare nut, screw the nut for 3-4 times by hand and then tighten it by spanner with the specified torque mentioned in the table above.
- Cover the flare connection part of the indoor unit with attached insulation material after a gas leakage inspection, and tighten both ends with attached straps.
- Make sure to insulate both gas pipes and liquid pipes completely.
 *Incomplete insulation may cause dew condensation or water dropping.
- Use heat-resistant (120 °C or more) insulations on the gas side pipes
- In case of using at high humidity condition, reinforce insulation of refrigerant pipes.
 Surface of insulation may cause dew condition or water dropping, if insulations are not
- Refrigerant is charged in the outdoor unit. As for the additional refrigerant charge for the indoor unit and piping, refer to the installation manual attached to the outdoor unit.

⑤Refrigerant pipe (continued)

Caution

Refrigerating machine oil should not be applied to the threads of union or external surface of flare. It is because, even if the same tightening torque is applied, the oil is likely to decrease the slide friction force on the threads and increase, in turn, the axial component force so that it could crack the flare by the stress corrosion. Refrigerating machine oil may be applied to the internal surface of flare only





6 Drain pipe

Caution

- Install the drain pipe according to the installation manual in order to drain properly.
- Water may drip in the room, damaging user's belongings, unless it is worked as instructed. Be sure to use the supplied drain hose. Unless it is used, the drain socket could be damaged
- by undue stresses, causing water leakage.
- Do not put the drain pipe directly into the ditch where toxic gas such as sulfur, the other harmful and inflammable gas is generated. Toxic gas would flow into the room and it would cause serious damage to user's health and safety (some poisoning or deficiency of oxygen). In addition, it may cause corrosion of heat exchanger and bad smell. Connect the pipe securely to avoid water leakage from the joint.
- Insulate the pipe properly to avoid condensation drop.
- Check if the water can flow out properly from both the drain outlet on the indoor unit and the end of Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in
- the midway. In addition, do not put air vent on the drain pipe. Check if water is drained out properly from the pipe during commissioning. Also, keep sufficient space for inspection and maintenance.

Drain socket and drain hose connection

- Where temperatures around the drain socket may rise beyond 50°C, adhere the drain socket and the drain hose.
- Avoid using the hose clamp with adhesive. It could cause water leakage

<When using the hose clamp>

- side) is inserted into the end of the step part of the drain socket
- Fix the hose clamp so that its bolt is located on the outside of the indoor unit, and the bolt are fastened in a vertical orientation. Position the hose clamp so that it touches the
- insulation of the drain hose, and then tighten the bolt.
- Turn the bolt several times until it is securely tightened, but do not tighten it excessively. to 20 mm (Reference: 1.2 to 1.5N·m)

Target extent of bolt tightening should be 17 <When using adhesives>



0° to 20°

20mm or more

0

- Make sure that the drain hose (the soft PVC side) is inserted into the end of the step part of
- 2. Use the adhesive according to maker's instructions
- * Do not use adhesives containing phthalic esters. It could cause water leak.
- Make sure that the adhesive will not get into the drain hose or drain socket.

Drain hose and piping connection

- Prepare a joint for connecting VP-25 pipe, adhere and connect the joint to the drain hose (the rigid PVC side), and adhere and connect VP-25 pipe (prepare on site).

 * As for drain pipe, apply VP-25 made of rigid PVC which is
- on the market.

 Make sure that the adhesive will not get into the
- supplied drain hose.

It may cause the flexible part broken after the adhesive is dried up and gets rigid.

The flexible drain hose is intended to absorb a small

- difference at installation of the unit or drain pipes. Intentional bending, expanding may cause the flexible hose broken and water leakage.
- Pay attention not to apply stresses to the drain socket or drain pipe, and support and fix the drain pipe as close place to the unit as possible when connecting the drain pipe. (within 250 mm from the end of joint prepared at site)

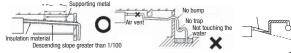
 As for drain pipe, apply VP25 (0D32).
 If apply PVC25 (0D25), connect the expanded connector to the drain hose with adhesive. (Multi unit only)
Make sure to make descending slope of



up-down bend and/or trap in the midway.

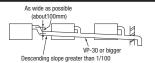
Pay attention not to give stress on the pipe on the indoor unit side, and support and fix the pipe as close place to the unit as possible when connecting the drain pipe

 Do not set up air vent. - Supporting metal No bump



6 Drain pipe (continued)

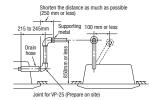
When sharing a drain pipe for more than 1 unit, lay the main pipe 100mm below the drain outlet of the unit. In addition, select VP-30 or bigger size for main drain pipe.



- 4. Insulate the drain pipe.
- Be sure to insulate the drain socket and rigid PVC pipe installed indoors otherwise it may cause dew condensation and water leakage.
 - * After drainage test implementation, cover the drain socket part with pipe cover (small size), then use the pipe cover (big size) to cover the pipe cover (small size), hose clamp and part of the drain hose, and fix and wrap it with tapes to wrap and make joint part gapless.

Drain un

 The position for drain pipe outlet can be raised up to 850mm above the ceiling. Use elbows for installation to avoid obstacles inside ceiling. If the horizontal drain pipe is too long before vertical pipe, the backflow of water will increase when the unit is stopped, and it may cause overflow of water from the drain pan on the indoor unit. In order to avoid overflow, keep the horizontal pipe length and offset of the pipe within the limit shown in the right



Drain test

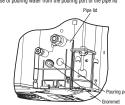
- After installing the drain pipe, make sure that drain system works correctly and that no water leaks from the joint and drain pan. Check whether the motor sound of the drain pump is normal

 Conduct a drain test when installing, even during the heating season.
- In the case of new buildings, be sure to complete the test before fixing the ceiling.
- Pour about 1,000 cc of test water into the drain pan of the indoor unit. Exercise care not to allow electrical equipment such as the drain pump and other components to become wet

Pour test water through the pouring port of the pipe lid using a feed water pump or a similar device, or through the refrigerant pipe joint.

 In case of pouring water from the air outlet ●In case of pouring water from the pouring port of the pipe lid





- 2. Make sure that water drains out completely and that no water leaks from any joints of the drain pipe during the test.

 Test to confirm that the water drains out correctly while listening to the drain pump motor operating sound.
- At the drain socket (transparent), it is possible to check whether the water drains out correctly. Unplug the rubber plug on the indoor unit so that the remaining water drains from the drain
- pan after the draining test. After checking the water drainage, fix the rubber plug correctly. Installation work for the drain pipe must be performed for the entire drain pipe up to the indoor unit.

If the pipe lid has been removed in order to pour water, mount the pipe lid again

Drain pump operation

- ●In case electrical wiring work completed
 Drain pump can be operated by the wired remote controller.
- For the operation method, refer to [Operation for drain pump] in the installation manual for wiring work. Drain pump will run continuously when the dip switch "SW7-1" on the indoor unit PCB is turned ON, the Connector

CNB is disconnected, and then the power supply (230VAC on the terminal block ① and ②) is turned ON. Make sure to turn OFF "SW7-1" and reconnect the Connector CNB after the test.

7Wiring-out position and wiring connection

- Electrical installation work must be performed according to the installation manual by an electrical installation service provider qualified by a power provider of the country, and be executed according to the technical standards and other regulations applicable to electrical installation in the country.

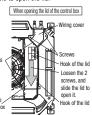
 Be sure to use an exclusive circuit.
- Use specified cord, fasten the wiring to the terminal securely, and hold the cord securely in order
- ont to apply unexpected stress on the terminal.

 Do not put both power source line and signal line on the same route. It may cause miscommunication and malfunction.
- Be sure to do D type earth work
- For the details of electrical wiring work, see attached instruction manual for electrical wiring work.
- 1. Loosen the 2 screws of the lid of the control box, and slide the lid in the direction of the arrow shown in the figure. It will then be possible to open the lid.

 Unhook the lid from the control box, and remove the lid.

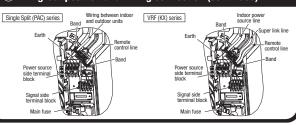
 When opening the lid.
- 3. Remove the 2 screws from the wiring
- cover, and remove the wiring cover. Hold each wire inside the unit, and securely fasten them to the terminal block
- Fix the wiring using clamps Install the wiring cover and the lid of the control box.
- Main fuse specification







(7) Wiring-out position and wiring connection (continued)



®Panel installation

- Install the panel on the indoor unit after electrical wiring work.
- Refer to the attached manual for panel installation for details.

9Check list after installation

Check the following items after all installation work completed.

Check if;	Expected trouble	Check
The indoor and outdoor units are fixed securely?	Falling, vibration, noise	
Inspection for leakage is done?	Insufficient capacity	
Insulation work is properly done?	Water leakage	
Water is drained properly?	Water leakage	
Supply voltage is same as mentioned in the model name plate?	PCB burnt out, not working at all	
There is mis-wiring or mis-connection of piping?	PCB burnt out, not working at all	
Earth wiring is connected properly?	Electric shock	
Cable size comply with specified size?	PCB burnt out, not working at all	
Any obstacle blocks airflow on air inlet and outlet?	Insufficient capacity	

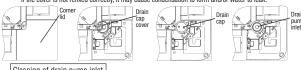
①How to check the dirt of drain pan and cleaning the inlet of the drain pump. (Maintenance)

The method of checking the dirt of drain pan

- It is possible to check dirt on the drain pan and drain pump inlet without removing the panel.
 Open the inlet grille and remove the corner lid on the drain pan side.
 Remove the drain cap cover (1 screw) from the panel corner.

- Check the dirt on the drain pan from the drain cap, and check the drain pump inlet. If the drain pan is very dirty, remove the drain pan and clean it.
 After checking, refix the drain cap cover securely.

If the cover is not refixed correctly, it may cause condensation to form and/or water to leak



Cleaning of drain pump inlet

- It is possible to clean the drain pump inlet and surrounding area by removing the drain cap only; it It is possible to clean the drain pump inlet and surrounding area by removing the drain cap only is not necessary to remove the panel and drain pan.
 Before removing the drain cap, remove the rubber plug and drain water from the drain pan.
 Remove the drain cap cover as described above.
 Insert the nose of the pilers into the concave portions (2 places) of the drain cap, and rotate the pliers about 1 turn in the CCW direction. The drain cap is removed.

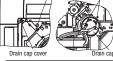
- about 1 turn in the CLW direction. The drain cap is removed.

 3. When cleaning the drain pump inlet, use a soft plastic tool. If a metallic tool is used, the drain cap mounting portion may be scratched and water may leak.

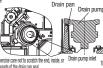
 4. Before mounting the drain cap, rinse it and remove any foreign material from the inside of the real form the drain cap is installed with foreign material inside it, it may cause water to leak.

 5. Insert the nose of the pliers into the concave portions of the drain cap and rotate the pliers to install the
- Insert me nose of me pinets mit or concave portions of the drain cap and rotate the pinets to instant me drain cap. Rotate the drain cap about 1 turn in the CW direction until it stops rotating. If the drain cap is not rotated for 1 or more turns, the cap will not have been installed correctly.
 After tightening the drain cap, and then install it again correctly.
 After tightening the drain cap, make sure the triangle (△) mark of the drain cap comes close to the triangle mark on the panel. If these triangle marks are not close to each other, tighten the drain cap further.
 Refix the drain cap cover and rubber plug securely, if the cover is not refixed correctly, it may cause condensation to form and/or water to leak.

Rubber plug











Notes for removing the drain pan

 Before removing the drain pan, drain water from the drain pan. Remove the rubber plug and drain water The drain pan is installed by the temporary installation plate. Remove the 2 drain pan fixing screws, and

loosen the 2 screws of the temporary installation plate.

Slide the temporary installation plate to the outside of the drain pan. And then, it is possible to remove the drain pan, lide the temporary installation plate to the outside of the drain pan. Rich temporary installation plate to the inside and temporary fix the drain pan. Then, tighte drain pan fixing screws and the 2 screws of the temporary installation plate. Also, refix the rubber plug securely.





Loosen the



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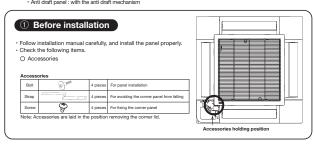
Panel installation

Read this manual together with the indoor unit's installation manual.

Fasten the wiring to the terminal securely and hold the cable securely so as not to apply unexpected stress on the terminal. 0 Loose connection or hold will cause abnormal heat generation or fire. Make sure the power source is turned off when electric wiring work. Otherwise, electric shock, malfunction and improper running may occur.

Function

The Anti draft panel has the anti draft mechanism. If the Anti draft panel is installed and the anti draft function is set, the anti draft function will be oprerated and reduce the draft feeling. (Refer to Refer to Refe

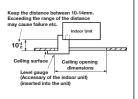


② Checking the indoor unit installation position

- · Read this manual together with the air-conditioner installation manual carefully.
- · Check if the opening size for the indoor unit is correct with the level gauge supplied in the indoor unit.
- Check if the gap between the plane and the indoor unit is correct by inserting the level gauge into the air outlet port of the indoor unit. (See below drawing)
- · Adjust the installation elevation if necessary.
- Remove the level gauge before installing the panel.

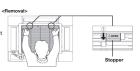
If there is a height difference beyond the design limit between the installation level of the indoor unit and the panel, the panel may be subject to excessive stress during installation and it may cause distortion and damage.

* The installation level of the indoor unit can be adjusted finely from the opening provided on the corner, even after panel is Installed (Refer to Installing the panel In for details.)



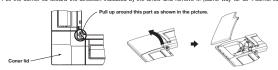
3 Removing the inlet grille

- Hold the stoppers on the inlet grille (2 places) toward OPEN direction, open the inlet grille.
 Remove the hooks of the inlet grille from the panel while it is in the open position.



Removing the corner lid

· Pull the corner lid toward the direction indicated by the arrow and remove it. (Same way for all 4 corner lids)



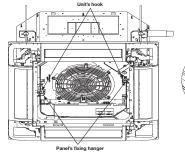
⑤ Orientation of the panel installation Take note that there is an orientation to install the panel. ake note that there is an orientation to install the pane Install the panel with the orientation shown on the rid Align the "PIPE SIDE" mark (on the panel) with the refrigerant pipes on the indoor unit. Align the "DRAIN" mark (on the panel) with the drain pipe on the indoor unit. Ha CAUTION ~~ In case the orientation of the panel is not correct, it will lead to air leakage and also it is not possible to connect the flap motor wiring. 0

6 Installing the panel

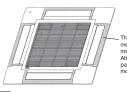
- Temporary hanging

 Lift up the hanger (2 places) on the panel for temporary support.

 Hang the panel on the hook on the indoor unit.







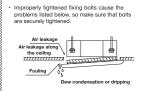
The Anti draft panel moves the parts of the anti draft mechanism (shaded area, 4 places). Note that they may break if they are moved forcibly by hand.

Although the parts (shaded area) of the Standard panel are separate parts from the body, they do not move.

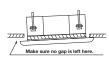
The parts (shaded area), of the anti draft mechanism around the air outlet, are separate parts. Handle the panel with care. Especialy, the shaded area of the Anti draft panel move. Note that they may break if they are moved forcibly by hand.

2. Fix the panel on the indoor unit

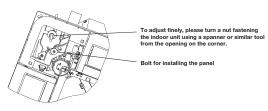
Fasten the panel on the indoor unit with the 4 bolts supplied with the panel.



If there is a gap between the ceiling and the panel even after the fixing botts are tightened, adjust the installation level of the indoor unit again.



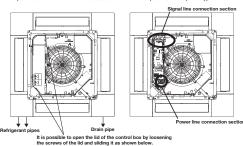
It is possible to adjust the installation height of the indoor unit with the panel installed as long as there is no influence on the drain pipe inclination and/or the indoor unit levelness.



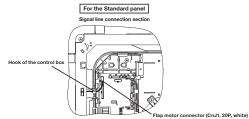
Do not give any stress on the panel when adjusting the height of the indoor unit to avoid unexpected distortion. It may cause the distortion of panel or failing to close the inlet grille, and the parts of the anti draft mechanism.

② Electrical wiring

The wiring work varies depending on the panel type. Select the wiring work appropriate for the panel type. The connection positions of the indoor unit are as shown below irrespective of the panel type.

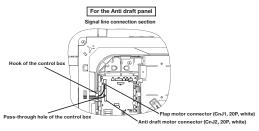


- <For the Standard panel>
 1. Loosen 2 screws on the control box lid of the indoor unit, and remove the lid by sliding it.
 2. Pass the flap motor wiring (20-wire) through the hook of the control box, and connect to CnJ1 (20P, white).
 3. Fix the control box lid of the indoor unit, and tighten 2 screws.



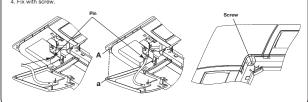
- <For the Anti draft panel>
 1. Loosen 2 screws on the control box lid of the indoor unit, and remove the lid by sliding it.
 2. Pass the flap motor cable (20-wire) through the hook of the control box, and connect to CnJ1 (20P, white).
 3. Pass the anti draft motor cable (20-wire) through the hook of the control box, and connect to CnJ2 (20P, white).
 4. Fix the control box lid of the indoor unit, and tighten the 2 screws.





8 Installing a corner lid

- To avoid unexpected falling of the corner lid, put the strap onto the corner lid's pin with turning the strap up.
 Then hang the strap of a corner lid onto the panel's pin.
 First insert the part "a" of a corner lid into the part "A" of the panel, and then engage 2 hooks.
 Fix with scrape.



Installing the inlet grille

To attach the inlet grille, follow the procedure described in Removing the intet grille in the reverse order.

1. Hang the hooks of the inlet grille in the hole of the panel. (The hooks of the grille can be hanged in 4 side of the panel as following.)

2. After the grille is hanged, close the grille while the stoppers/2 places) on the grille are kept pressed to "OPEN" direction. When the grille comes to the original position, release the stoppers to hold the grille. Make sure to hear the sound of "CLICK" in both stoppers.

- Installing the inlet grille from the hinge side.
 Be careful in the inlet grille Installing, unstable installing may cause grille falling.
 Repair or replace the distorted, broken stopper at once, or the grille falling may occur.

10 Panel setting

<Flap swing range setting (Individual flap cotrol setting)>
It is possible to change the swing range of the flap by the wired remote control. Once the upper and lower limit positions are set, the flap will swing within the set range. It is also possible to set the different range to each flap.

The anti draft function will not be operated if the anti draft panel is installed and its wirings are only connected. To operate the anti draft function, enable the anti draft setting by using the wired or wireless remote control.

Note: It is not possible to set by the following remote control models or older.

Wired:RC-EX1A, RC-E5, RCH-E3 Wireless: RCN-E1R

Once you have enabled the settings in this mode, the anti draft function is operated when the air-conditioner is started, and the parts of the anti draft mechanism are always open when the air-conditioner is operating. When the air-conditioner is stopped, they are closed. It is possible to enabled or disabled the anti draft function for each air outlet.

For the setting details, refer to the user's manual supplied with the remote control.

(2) Ceiling cassette-4 way compact type(FDTC)

This manual is for the installation of the indoor unit.

For electrical wiring work (Indoor unit), refer to page 195. For remote control installation, refer to page 199. For wireless kit installation, refer to page 362. For electrical wiring work (Outdoor unit) and refrigerant pipe work installation for outdoor unit, refer to page 211. For motion sensor kit installation, refer to page

390. This unit must always be used with the panel.

SAFETY PRECAUTIONS

- Read the "SAFETY PRECAUTIONS" carefully first of all and then strictly follow it during the installation work in order to protect yourself.
- The precautionary items mentioned below are distinguished into two levels, AWARNING and ACAUTION. AWARNING: Wrong installation would cause serious consequences such as injuries or death. ACAUTION: Wrong installation might cause serious consequences depending on circumstances Both mentions the important items to protect your health and safety so strictly follow them by any means.
- The meanings of "Marks" used here are as shown on the right: Never do it under any circumstances.
- After completing the installation, do commissioning to confirm there are no abnormalities, and explain to the customers about "SAFETY PRECAUTIONS", correct operation method and maintenance method (air filter cleaning, operation method and temperature setting method) with user's manual of this unit. Ask your customers to keep this installation manual together with the user's manual. Also, ask them to hand over the user's manual to the new user when the owner is changed.

AWARNING

- Installation should be performed by the specialist.
- If you install the unit by yourself, it may lead to serious t rouble such as i electric shock, fire, and injury due to overturn of the unit
- Install the system correctly according to these installation manuals. Improper installation may cause explosion, injury, water leakage, electric shock, and fir
- Check the density refered by the foumula (accordance with ISO5149).
- If the density exceeds the limit density, please consult the dealer and installate the ventilation system
- Use the genuine accessories and the specified parts for installation. If parts unspecified by our company are used it could cause water leakage, electric shock, fire, and injury due to overturn of the unit.
- Ventilate the working area well in case the refrigerant leaks during installation.
- If the refrigerant contacts the fire, toxic gas is produced.
- In case of R32, the refrigerant could be ignited because of its flam
- Install the unit in a location that can hold heavy weight.
- Improper installation may cause the unit to fall leading to accid
- Install the unit properly in order to be able to withstand strong winds such as typhoons, and earthquakes Improper installation may cause the unit to fall leading to accident
- Do not mix air in to the cooling cycle on installation or removal of the air conditioner.
- If air is mixed in, the pressure in the cooling cycle will rise abnormally and may cause explosion and injur
- Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circuit. Power source with insufficient capacity and improper work can cause electric shock and fire Use specified wire for electrical wiring, fasten the wiring to the terminal securely, and hold the cable securely
- in order not to apply unexpected stress on the terminal. Loose connections or hold could result in abnormal heat generation or fire.
- Arrange the electrical wires in the control box properly to prevent them from rising. Fit the lid of the services panel property.
- Improper fitting may cause abnormal heat and fire. Check for refrigerant gas leakage after installation is completed.
- If the refrigerant gas leaks into the house and comes in contact with a fan heater, a stove, or an oven, toxic gas is produced
- Use the specified pipe, flare nut, and tools for R32 or R410A. Jsing existing parts (R22) could cause the unit failure and serious accident due to explosion of the cooling cycle
- Tighten the flare nut according to the specified method by with torque wrench. If the flare nut were tightened with excess torque, it could cause burst and refrigerant leakage after a long period
- Do not put the drainage pipe directly into drainage channels where poisonous gases such as sulfide gas can
- Poisonous gases will flow into the room through drainage pipe and seriously affect the user's health and safety. This can also
- cause the corrosion of the indoor unit and a resultant unit failure or refrigerant leak • Connect the pipes for refrigeration circuit securely in installation work before compressor is operated.
- If the compressor is operated when the service valve is open without connecting the pipe, it could cause explosion and injuries due to abnormal high pressure in the systen Stop the compressor before removing the pipe after shutting the service valve on pump down work.
- If the pipe is removed when the compressor is in operation with the service valve open, air would be mixed in the refrigeration circ and it could cause explosion and injuries due to abnormal high pressure in the cooling cycle.
- Only use prescribed optional parts. The installation must be carried out by the qualified installer. If you install the system by yourself, it can cause serious trouble such as water leaks, electric shocks, fire
- Do not repair by yourself. And consult with the dealer about repair.
- Improper repair may cause water leakage, electric shock or fire.
- Consult the dealer or a specialist about removal of the air conditioner. Improper installation may cause water leakage, electric shock or fire.
- Turn off the power source during servicing or inspection work. If the power is supplied during servicing or inspection work, it could cause electric shock and injury by the operating fan
- Do not run the unit when the panel or protection guard are taken off. Touching the rotating equipment, hot surface, or high voltage section could cause an injury to be caught in the machine, to get burned, or electric shock.
- Shut off the power before electrical wiring work.
- It could cause electric shock, unit failure and improper running

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⚠ CAUTION

- Perform earth wiring surely.
- Do not connect the earth wiring to the gas pipe, water pipe, lightning rod and telephone earth wiring. Improper earth coul cause unit failure and electric shock due to a short circuit.
- Earth leakage breaker must be installed.
- Use the circuit breaker of correct capacity. Circuit breaker should be the one that disconnect all poles under over current.
 - Using the incorrect one could cause the system failure and fire
- If the gas leaks and gathers around the unit, it could cause fire.

- Do not use the indoor unit for a special purpose such as food storage, cooling for precision instrument, preservation of animals, plants, and a work of art.
- Do not install nor use the system near equipments which generate electromagnetic wave or high harmonics. Equipments like inverter equipment, private power generator, high-frequency medical equipment, or telecommunical equipment might influence the air conditioner and cause a malfunction and breakdown. Or the air conditioner might
- Do not install the remote control at the direct sunlight.

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- insufficient strength of structure.

- Do not put any valuables which will break down by getting wet under the air conditioner.
- It could cause the unit falling down and injury.
- Install the drain pipe to drain the water surely according to the installation manual.
- Be sure to perform air tightness test by pressurizing with nitrogen gas after completed refrigerant piping work.
- occur, which can cause serious accidents
- Check if the drainage is correctly done during commissioning and ensure the space for inspection and main
- Incomplete insulation could cause condensation and it would wet ceiling, floor, and any other valual
- Pay extra attention, carrying the unit by hand.
- by hand. Use protective gloves in order to avoid injury.
- Leaving the materials may cause injury as metals like nail and v

- The pipe during operation would become very hot or cold according to the operating condition, and it could cause a burn or frostbi
- Do not clean up the air conditioner with water, and do not spray disinfectants etc. directly over the air condition
- Do not turn off the power source immediately after stopping the operation.
- Do not control the operation with the circuit breaker.
- It could cause fire or water leakage. In addition, the fan may start operation unexpectedly and it may cause injury

1Before installation

- ●Install correctly according to the installation manual. When moving the indoor unit, hold only
- Confirm the following points:

OUnit type/Power supply specification

OPines/Wires/Small parts OAccessory items Accessory item

the hanging hardware (4 places) only with care not to apply forces to any other parts of the unit (particularly the refriger ant pipe, drain pipe, and resin parts)

For un	it hanging		For refrigerant pi	pe		For dra	in pipe	
Flat washer (M10)	Level gauge	Pipe cover(big)	Pipe cover (small)	Strap	Pipe cover(big)	Pipe cover(small)	Drain hose	Hose clamp
0)						0		8
8	1	1	1	4	1	1	1	1
For unit hanging	For unit hight position adjustment and hanging suport	For heat insulation of gas pipe	For heat insulation of liquid tube	For pipe cover fixing	For heat insulation of drain socket	For heat insulation of drain socket	For drain pipe connecting	For drain ho mounting

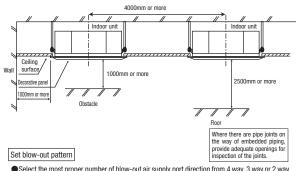
2 Selection of installation location for the indoor unit

- Select the suitable areas to install the unit under approval of the user.
 - Areas where the indoor unit can deliver hot and cold wind sufficiently. Suggest to the user to use a circulator if the ceiling height is over 3m to avoid warm air being accumulated on the ceiling.
 - In case of the panel having the motion sensor, the installation height must be no higher than 4 m. It could reduce the sensitivity of motion sensor, disabling the detection.
 - · Areas where there is enough space to install and service.
- · Areas where it can be drained properly. Areas where drain pipe descending slope can be
- · Areas where there is no obstruction of airflow on both air return grille and air supply port.
- Areas where fire alarm will not be accidentally activated by the air conditioner.
- · Areas where the supply air does not short-circuit.
- · Areas where it is not influenced by draft air.
- Areas not exposed to direct sunlight.
- Areas where dew point is lower than around 28°C and relative humidity is lower than 80%. This indoor unit is tested under the condition of JIS (Japan Industrial Standard) high humidity condition and confirmed there is no problem. However, there is some risk of condensation drop if the air conditioner is operated under the severer condition than mentioned above If there is a possibility to use it under such a condition, attach additional insulation of 10 to 20mm thick for entire surface of indoor unit, refrigeration pipe and drain pipe.

 Areas where TV and radio stays away more than 1m. (It could cause jamming and noise.)
- · Areas where any items which will be damaged by getting wet are not placed such as food, table wares, server, or medical equipment under the unit.
- · Areas where there is no influence by the heat which cookware generates
- · Areas where not exposed to oil mist, powder and/or steam directly such as above fryer.
- · Areas where lighting device such as fluorescent light or incandescent light doesn't affect
- (A beam from lighting device sometimes affects the infrared receiver for the wireless remote control and the air conditioner might not work properly.)
- 2) Check if the place where the air conditioner is installed can hold the weight of the unit. If it is not able to hold, reinforce the structure with boards and beams strong enough to hold it. If the strength is not enough, it could cause injury due to unit falling.
- (3)If there are 2 units of wireless type, keep them away for more than 6m to avoid malfunction due to cross communication.
- (4) When plural indoor units are installed nearby, keep them away for more than 4m.

Space for installation and service

- When it is not possible to keep enough space between indoor unit and wall or between indoor units, close the air supply port where it is not possible to keep space and confirm there is no short circuit of airflow.
- Install the indoor unit at a height of more than 2.5m above the floor

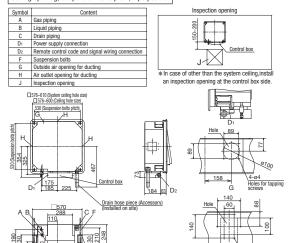


- Select the most proper number of blow-out air supply port direction from 4 way, 3 way or 2 way according to the shape of the room and installation position. (1 way is not available.)
- If it is necessary to change the number of air supply port, prepare the covering materials.
- ●Instruct the user not to use low fan speed when 2way or 3way air supply is used.
- Do not use 2way air supply port under high temperature and humidity environment. (Otherwise it could cause condensation and leakage of water.)
- It is possible to set the airflow direction port by port independently. Refer to tne user's manual

3 Preparation before installation

- If suspension bolt becomes longer, do reinforcement of earthquake resistant OFor grid ceiling
 - When suspension bolt length is over 500mm, or the gap between the ceiling and roof is over 700mm, apply earthquake resistant brace to the bolt.
 - Oln case the unit is hanged directly from the slab and is installed on the ceiling plane which has enough strength.
 - When suspension bolt length is over 1000mm, apply the earthquake resistant brace to the bolt.
- Prepare four (4) sets of suspension bolt, nut and spring washer (M10 or M8) on site.

Ceiling opening, Suspension bolts pitch, Pipe position



4 Installation of indoor unit

Work procedure

- This unit is designed to install on a system ceiling.
- If necessary, remove T bars temporarily before installing the unit. When it is installed on a ceiling other than the system ceiling, install an inspection port at the control box side.

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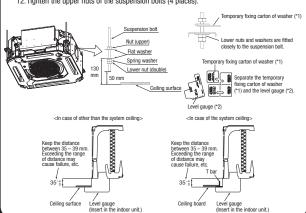
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6-ø4
Holes for tapping

Determine the position of suspension bolts (530 mm × 530 mm).

ger plate for ension bolt

- Use 4 suspension bolts, and fix them.
- Set the suspension bolt length to about 50 mm from the ceiling.
- Temporarily locate the lower nuts of the suspension bolts (4 places) at a position approximately 130 mm from the ceiling.
- Temporarily locate the upper nuts of the suspension bolts (4 places) at positions sufficiently distance from the lower nuts so that they do not interfere with the suspension of the indoor unit and with its height adjustment.
- Set the upper nuts of the suspension bolts and upper washers (4 places) at positions sufficiently distance from the lower nuts. Then, push and insert the temporary fixing carton of washers (*1) onto suspension bolts. Make sure that the upper washers do not slide down.
- Suspend the indoor unit.
- After suspending the indoor unit, mount the level gauge (*2) to the air outlet of the indoor unit, and adjust the suspension height of the indoor unit. Loosen the upper nuts (4 places), and adjust the suspension height using the lower nuts (4 places). Confirm there is no slack between the lower nuts and flat washers of the indoor unit hanger plate (4 places).
- 10. Remove the temporary fixing carton of washers (from all 4 places)
- 11. Make sure that the indoor unit is installed horizontally. Confirm the levelness of the indoor unit using a level gauge or transparent hose filled with water. (Keep the height difference at both ends of the indoor unit within 3 mm.)
- 12. Tighten the upper nuts of the suspension bolts (4 places).



slope great than 1/100

Hose clamp (Accessory, Prohibited to use at adhering.)

0° to 20°

It should never be smaller than 0° (horizontal).

20mm or mi

4 Installation of indoor unit (continued)

Protection of the indoor unit

If it is not possible to install the panel for a while or if attaching the ceiling board after installing the indoor unit, protect the indoor unit by using upper carton



Caution

- Do not adjust the unit height by adjusting the upper nuts. Doing so will cause unexpected stress on the indoor unit and cause the unit to become deformed, prevent the panel from being installed, and be generated fan interference noise
- Make sure that the indoor unit is installed horizontally and set the appropriate gap between the underside of the unit and the ceiling plane. Improper installation may cause air leakage, dew condensation, water leakage and noise.
- Make sure there is no gap between the panel and the ceiling surface, and between the panel and the indoor unit. Any gap may cause air and/or water to leak, or condensation to

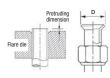
⑤Refrigerant pipe

Caution

- Be sure to use new pipes for the refrigerant pipes. Use the flare nut attached to the product.
 Regarding whether existing pipes can be reused or not, and the washing method, refer to the instruction manual of the outdoor unit, catalogue or technical data.
- 1) In case of reuse: Do not use old flare nut, but use the nut attached to the unit.

2) In case of reuse: Flare the end of pipe replaced partially for R32 or R410A

<u>AWARNING</u>: When flared joints are reused indoors, the flare part shall be re-fabricated. (only for R32)



	Protruding dimension for flare, mm		Protruding dimension for flare, mm								
Pipe dia.	Min. pipe wall thickness	Rigid (Clutch type)		Flare O.D.	Flare nut tightening torque						
mm			Conventional tool	mm	N-m						
6.35	0.8			8.9 ~ 9.1	14 ~ 18						
9.52	0.8	0 ~ 0.5								12.8 ~ 13.2	34 ~ 42
12.7	0.8		0.7 ~ 1.3	16.2 ~ 16.6	49 ~ 61						
15.88	1							19.3 ~ 19.7	68 ~ 82		
19.05	1.2			23.6 ~ 24.0	100 ~ 120						

- Use phosphorus deoxidized copper alloy seamless pipe (C1220T) for refrigeration pipe installation In addition, make sure there is no damage both inside and outside of the pipe, and no harmful substances such as sulfur, oxide, dust or a contaminant stuck on the pipes.
- Do not use any refrigerant other than the designated refrigerant. Using other refrigerant except the designated refrigerant, may degrade inside refrigeration oil. And air
- getting into refrigeration circuit may cause over-pressure and resultant it may result in bursting, etc. Store the copper pipes indoors and seal the both end of them until they are brazed in order to avoid any dust, dirt or water getting into pipe. Otherwise it will cause degradation of refrigeration oil and compressor breakdown, etc.
- ●Use special tools for R32 or R410A refrigerant.

Work procedure

- Remove the flare nut and blind flanges on the pipe of the indoor unit.
 - * Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them. (Gas may come out at this time, but it is not abnormal.)
- Pay attention whether the flare nut pops out. (as the indoor unit is sometimes pressured.) Make a flare on liquid pipe and gas pipe, and connect the refrigeration pipes on the indoor unit.
- * Bend radius of pipe must be 4D or larger. Once a pipe is bent, do not readjust the bending Do not twist a pipe or collapse to 2/3D or smaller.
- Make sure to use flare nuts assembled on the unions. Usage of other flare nuts could cause refrigerant leakage
- * Do a flare connection as follows:
- Make sure to hold the nut on indoor unit pipe side using double spanner method as indicated when fastening / loosening flare nuts in order to prevent unintentional twisting of the copper pipe.
- When fastening the flare nut, align the refrigeration pipe with the center of flare nut, screw the nut for 3-4 times by hand and then tighten it by spanner with the specified torque mentioned in the table above.
- Cover the flare connection part of the indoor unit with attached insulation material after a gas leakage inspection, and tighten both ends with attached straps
- Make sure to insulate both gas pipes and liquid pipes completely
- *Incomplete insulation may cause dew condensation or water dropping.
- Use heat-resistant (120 °C or more) insulations on the gas side pipes
- In case of using at high humidity condition, reinforce insulation of refrigerant pipes. Surface of insulation may cause dew condition or water dropping, if insulations are not reinfoced
- Refrigerant is charged in the outdoor unit.

As for the additional refrigerant charge for the indoor unit and piping, refer to the installation manual attached to the outdoor unit.

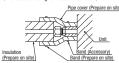
⑤Refrigerant pipe (continued)

Refrigerating machine oil should not be applied to the threads of union or external surface of flare. It is because, even if the same tightening torque is applied, the oil is likely to decrease the slide friction force on the threads and increase, in turn, the axial component force so that it could crack the flare by the stress corrosion.

Refrigerating machine oil may be applied to the internal surface of flare only

<The case of using thicness of insulation is 10mm>





6 Drain pipe

Caution

- Install the drain pipe according to the installation manual in order to drain properly.
 Water may drip in the room, damaging user's belongings, unless it is worked as instructed.
 Be sure to use the supplied drain hose. Unless it is used, the drain socket could be damaged
- by undue stresses, causing water leakage.

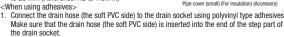
 Do not put the drain pipe directly into the ditch where toxic gas such as sulfur, the other harmful and inflammable gas is generated. Toxic gas would flow into the room and it would cause serious damage to user's health and safety (some poisoning or deficiency of oxygen). In addition, it may cause corrosion of heat exchanger and bad smell.
- Connect the pipe securely to avoid water leakage from the joint
- Insulate the pipe properly to avoid condensation drop.
 Check if the water can flow out properly from both the drain outlet on the indoor unit and the end of the drain pipe after installation.
- Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway. In addition, do not put air vent on the drain pipe. Check if water is drained out properly from the pipe during commissioning. Also, keep sufficient space for inspection and maintenance.

Drain socket and drain hose connection

- Where temperatures around the drain socket may rise beyond 50°C, adhere the drain socket and the drain hose.
 Avoid using the hose clamp with adhesive.
- It could cause water leakage.

<When using the hose clamp>

- Make sure that the drain hose (the soft PVC side) is inserted into the end of the step part of the drain socket.
- Fix the hose clamp so that its bolt is located on the outside of the indoor unit, and the bolt are fastened in a vertical orientation.
- Position the hose clamp so that it touches the insulation of the drain hose, and then tighten the bolt. Turn the bolt several times until it is securely tightened, but do not tighten it excessively Target extent of bolt tightening should be 17 to 20 mm (Reference: 1.2 to 1.5N·m)



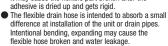
- Use the adhesive according to maker's instructions.
 - * Do not use adhesives containing phthalic esters. It could cause water leak
- Make sure that the adhesive will not get into the drain hose or drain socket.

Drain hose and piping connection

- Prepare a joint for connecting VP-25 pipe, adhere and connect the joint to the drain hose (the rigid PVC side), and adhere and connect VP-25 pipe (prepare on site).

 * As for drain pipe, apply VP-25 made of rigid PVC which is on the market
 - Make sure that the adhesive will not get into the supplied drain hose.

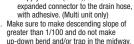
 It may cause the flexible part broken after the

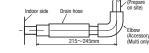


Pay attention not to apply stresses to the drain socket or drain pipe, and support and fix the

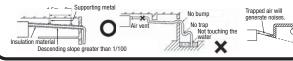
drain pipe as close place to the unit as possible when connecting the drain pipe (within 250 mm from the end of joint prepared at site)

 As for drain pipe, apply VP25 (0D32). If apply PVC25 (OD25), connect the expanded connector to the drain hose, with adhesive. (Multi unit only)





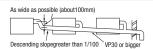
- Pay attention not to give stress on the pipe on the indoor unit side, and support and fix
 the pipe as close place to the unit as possible when connecting the drain pipe. Do not set up air vent.





6 Drain pipe (continued)

When sharing a drain pine for more than 1. unit, lay the main pipe 100mm below the drain outlet of the unit. In addition, select VP30 or bigger size for main drain pipe.

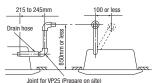


- 6. Insulate the drain pipe
- Be sure to insulate the drain socket and rigid PVC pipe installed indoors otherwise it may cause
 - dew condensation and water leakage.

 After drainage test implementation, cover the drain socket part with pipe cover (small size), then use the pipe cover (big size) to cover the pipe cover (small size), clamps and part of the drain hose, and fix and wrap it with tapes to wrap and make joint part gapless

Drain up

 The position for drain pipe outlet can be raised up to 850mm above the ceiling. Use elbows for installation to avoid obstacles inside ceiling. If the horizontal drain pipe is too long before vertical pipe, the backflow of water will increase when the unit is stopped, and it may cause overflow of water from the drain pan on the indoor unit. In order to avoid overflow, keep the horizontal pipe length and offset of the pipe within the limit shown in the figure below.



- After installing the drain pipe, make sure that drain system works correctly and that no water leaks from the joint and drain pan. Check whether the motor sound of the drain pump is normal. Conduct a drain test when installing, even during the heating season.

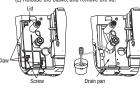
- In the case of new buildings, be sure to complete the test before fixing the ceiling.
 Pour about 1,000 cc of test water into the drain pan of the indoor unit. Exercise care not to allow electrical equipment such as the drain pump and other components to become wet while filling water

Pour test water through the pipe lid using a feed water pump or a similar device, or through the refrigerant pipe joint.





 In case of pouring water from the pipe lid (1) Remove screws at 2 places (2) Release the claws, and remove the lid



- 2. Make sure that water drains out completely and that no water leaks from any joints of the drain pipe during the test.
- Test to confirm that the water drains out correctly while listening to the drain pump motor operating sound At the drain socket (transparent), it is possible to check whether the water drains out correctly.

 3. Unplug the rubber plug on the indoor unit so that the remaining water drains from the drain
- pan after the draining test. After checking the water drainage, fix the rubber plug correctly. Installation work for the drain pipe must be performed for the entire drain pipe up to the indoor unit.
 - If the pipe lid has been removed in order to pour water, mount the pipe lid again

Drain pump operation

- In case electrical wiring work completed
- Drain pump can be operated by the wired remote control
- For the operation method, refer to $\hline \textbf{Operation for drain pump} \ \text{in the installation manual for wiring work}.$
- In case electrical wiring work not completed
- Drain pump will run continuously when the dip switch "SW7-1" on the indoor unit PCB is turned ON, the connec-Date pring Windows and then the power source (230VAC on the terminal block ① and ②) is turned ON. Make sure to turn OFF "SW7-1" and reconnect the connector CnB after the test.

Wiring-out position and wiring connection

- Electrical installation work must be performed according to the installation manual by an
 electrical installation service provider qualified by a power provider of the country, and be executed according to the technical standards and other regulations applicable to electrical installation in the country.

 Be sure to use an exclusive circuit.

- Be sure to use an exclusive circuit.

 Use specified cord, fasten the wiring to the terminal securely, and hold the cord securely in order not to apply unexpected stress on the terminal.

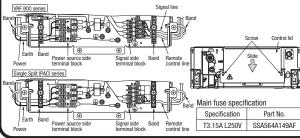
 Do not put both power source line and signal line on the same route. It may cause miscommunication and malfunction.

 Be sure to do D type earth work.

 For the details of electrical wiring work, see attached instruction manual for electrical wiring work.
- Loosen screws (2 pcs.) on the control box of the unit. Remove the control lid by sliding it in the arrow direction in the figure.
- Introduce the wiring in the control box, and connect it securely to the terminal block.

 Fix the wiring with bands as shown below.

 Install the control lid, with care not to pinch the wiring, and fix the lid with screws (2 pcs.).



®Panel installation

- Install the panel on the indoor unit after electrical wiring work.
- Refer to the attached manual for panel installation for details.

9 Check list after installation

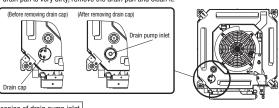
Check the following items after all installation work completed.

	•	
Check if;	Expected trouble	Check
The indoor and outdoor units are fixed securely?	Falling, vibration, noise	
Inspection for leakage is done?	Insufficient capacity	
Insulation work is properly done?	Water leakage	
Water is drained properly?	Water leakage	
Power source voltage is same as mentioned in the model name plate?	PCB burnt out, not working at all	
There is mis-wiring or mis-connection of piping?	PCB burnt out, not working at all	
Earth wiring is connected properly?	Electric shock	
Cable size comply with specified size?	PCB burnt out, not working at all	
Any obstacle blocks airflow on air inlet and outlet?	Insufficient capacity	

(10) How to check the dirt of drain pan and cleaning the inlet of the drain pump. (Maintenance)

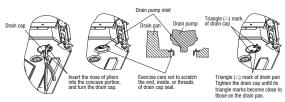
The method of checking the dirt of drain pan

- 1. Remove the panel according to the installation manual of the panel.
- 2. Check the dirt on the drain pan from the drain cap, and check the drain pump inlet. If the drain pan is very dirty, remove the drain pan and clean it



Cleaning of drain pump inlet

- It is possible to clean the drain pump inlet and surrounding area by removing the drain cap only; it is not necessary to remove the drain pan.
- Before removing the drain cap, remove the rubber plug and drain water from the drain pan.
- 1. Insert the nose of the pliers into the concave portions (2 places) of the drain cap, and rotate the pliers about 1 turn in the CCW direction. The drain cap is removed
- 2. When cleaning the drain pump inlet, use a soft plastic tool. If a metallic tool is used, the drain cap mounting portion may be scratched and water may leak.
- 3. Before mounting the drain cap, rinse it and remove any foreign material from the inside of the cap. If the drain cap is installed with foreign material inside it, it may cause water to leak.
- 4. Insert the nose of the pliers into the concave portions of the drain cap and rotate the pliers to install the drain cap. Rotate the drain cap about 1 turn in the CW direction until it stops rotating. If the drain cap is not rotated for 1 or more turns, the cap will not have been installed correctly. Remove the drain cap, and then install it again correctly.
- 5. After tightening the drain cap, make sure the triangle () mark of the drain cap comes close to the triangle mark on the drain pan. If these triangle marks are not close to each other, tighten the drain cap further.
- 6. Refix the rubber plug securely. If the cover is not refixed correctly, it may cause condensation to form and/or water to leak



Notes for removing the drain pan

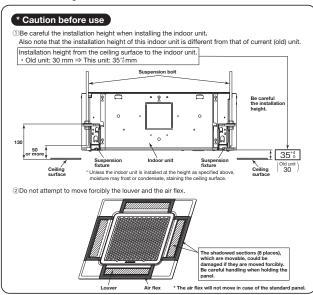
- Before removing the drain pan, drain water from the drain pan. Remove the rubber plug and drain water.
- The drain pan is installed by the temporary installation plate. Remove the 2 drain pan fixing screws, and loosen the 2 screws of the temporary installation plate. Slide the temporary installation plate to the outside of the drain pan. And then, it is possible
- Office the temporary installation plate to the obtained in the train pair. And their, it is possible to remove the drain pan. And the drain pan. When reinstalling the drain pan, slide the temporary installation plate to the inside and temporaryl fix the drain pan. Then, tighten the 2 drain pan fixing screws and the 2 screws of the temporary installation plate. Also, refix the rubber plug securely.



Panel installation

PJF012D503A

Read this manual together with the indoor unit's installation manual



⚠ WARNING

- Fasten the wiring to the terminal securely and hold the cable securely so as not to apply unexpected stress on the terminal.
 Loose connection or hold will cause abnormal heat generation or fire.
- Make sure the power source is turned off when electric wiring work.

 Otherwise, electric shock, malfunction and improper running may occur.



Function

The draft prevention panel has the draft prevention mechanism. If the draft prevention panel is installed and the draft prevention function is set, the draft prevention function will be operated and reduce the draft feeling.

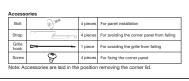
(Refer to (***Pands estiling**) for details.)

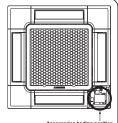
- Standard panel: without the draft prevention mechanism

- Draft prevention panel: with the draft prevention mechanism

① Before installation

- · Follow installation manual carefully, and install the panel properly.
- Check the following items





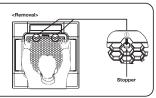
② Checking the indoor unit installation height

- Read this manual together with the air-conditioner installation manual carefully.
 Check if the opening size for the indoor unit is correct with the level gauge supplied in the indoor unit.
 Check if the gap between the plane and the indoor unit is correct by inserting the level gauge into the air outlet port of the indoor unit. (See below drawing)
- Adjust the installation elevation if necessary.
 Remove the level gauge before installing the panel.

Caution ~ If there is a height difference beyond the design limit between the installation level of the indoor unit and the panel, the panel may be subject to excessive stress during installation and it may cause distortion and damage <In case of other than the system ceiling> <In case of the system ceiling> Ceiling surface Level gauge (Insert in the indoor unit.) Ceiling board

3 Removing the inlet grille

- While placing a finger behind the stopper (2 places) and pressing it in the direction of arrow ①, pull the grille downward to open the grille.
 Release the hooks of the inlet grille from the panel while it is in the open position.



4 Removing the corner lid

· Pull the corner lid toward the direction indicated by the arrow and remove it. (Same way for all 4 corner lids)



⑤ Before installing the panel <Only Draft prevention panel>

- (1) Loosen screws (2 pcs.) on the control lid of the unit.

- () Lossen screws (2 pcs.) on the control lid of the unit.

 2 Slidde the control lid in the arrow direction in the figure, and remove it.

 3 Lossen screws on the wiring cover (2 places).

 4 Slide the wiring cover (2 places) in the arrow direction in the figure, and remove it.

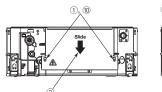
 5 Disconnect the relay connector of the air flex motor wiring attached to the panel.

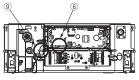
 6 Connect the air flex motor wiring to CNJ2 (20 P, gray) on PCB in the control box of the unit.

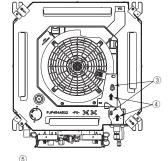
 7 Pass the air flex motor wiring as shown in the figure.

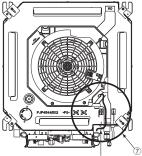
 8 Install the wiring cover (1 place) with care not to pinch wiring, and fix it with a screw.

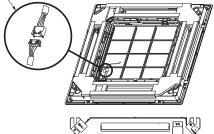
 9 Install the control lid with care not to pinch wiring, and fix with screws (2 places,).

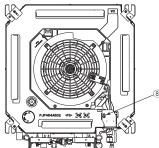


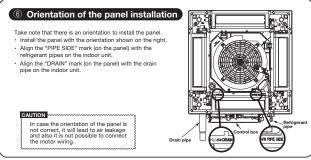


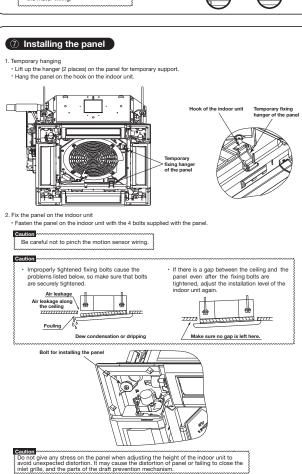










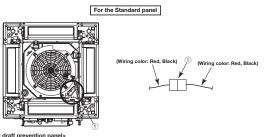


8 Electrical wiring

The wiring work varies depending on the panel type. Select the wiring work appropriate for the panel type.

- CFor the standard panels

① Connect the connector of the louver motor wiring (Wiring color: Red, Black) at the panel side to the connector CnJ3 (20 P, White) of the louver motor wiring (Wiring color: Red, Black) at the unit side.



<For the draft prevention panel>

- Cror me traits prevention panels:

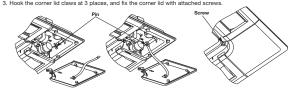
 (i) Connect the connector of the louver motor wiring (Wiring color: Red, Black) at the panel side to the connector CnJ3 (20 P, White) of the louver motor wiring (Wiring color: Red, Black) at the unit side.

 (i) Connect the connector of the air flex motor wiring (Wiring color: Blue, White) at the panel side to the connector CnJ4 (20 P, White) of the air flex motor wiring (Wiring color: Blue, White) at the unit side.

For the Draft prevention panel (Wiring color: Red, Black) 1), 2 Install the wiring co ver with care not to pinch wiring, and fix it with s Hook for <

9 Installing a corner lid

To avoid unexpected falling of the comer lid, put the strap onto the corner lid's pin with turning the strap up.
 Then hang the strap of a corner lid onto the panel's pin.
 Hook the corner lid claws at 3 places, and fix the corner lid with attached screws.



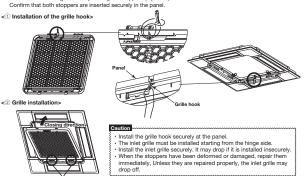
10 Installing the inlet grille

The panel and the inlet grille have no directional limitation to install, (Hinges of the inlet grille can be hooked at any side.) Install the inlet grille in the reverse order of the steps described at Removing the inlet grille.

② Insert the hinges of inlet grille with the panel.

Close then the inlet grille while pressing the stoppers (2 places).

Confirm that both stoppers are inserted securely in the panel.



① Panel setting

<Louver swing range setting (Individual louver control setting)>

It is possible to change the swing range of the louver by the wired remote control. Once the upper and lower limit positions are set, the louver will swing within the set range. It is also possible to set the different range to each louver limit.

<Draft prevention setting>

The draft prevention function will not be operated if the draft prevention panel is installed and its wirings are only connected. To operate the draft prevention function, enable the draft prevention setting by using the wired or wireless remote control.

Note: It is not possible to set by the following remote control models or older. Wired:RC-EX3, RC-E5, RCH-E3 Wireless: RCN-E1R

Once you have enabled the settings in this mode, the draft prevention function is operated when the air-conditioner is started, and the parts of the draft prevention mechanism are always open when the air-conditioner is operating. When the air-conditioner is stopped, they are closed. It is possible to enabled or disabled the draft prevention function for each air outlet.

For the setting details, refer to the user's manual supplied with the remote control.

FRESH AIR INTAKE (Location for installation) FOR FDTC

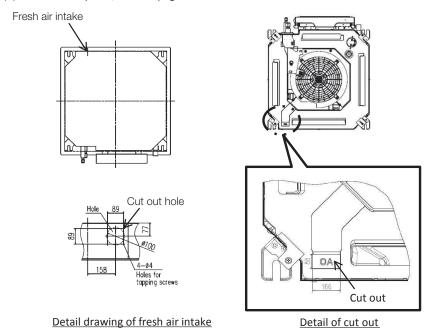
At the time of installation use the duct hole (cut out) located at the positions shown in follwing diagram, as and when required.

(1) Temperature conditions for OA spacer (1)

- Adjust the temperature conditions of mixed air with outdoor air and indoor air within the usage range of suction air temperature for the air-conditioner.
- The usage temperature conditions of intake outdoor air and indoor air around the ducts are shown in the following table.
- If the temperature conditions of intake outdoor air do not meet, process the outdoor air before intaking.

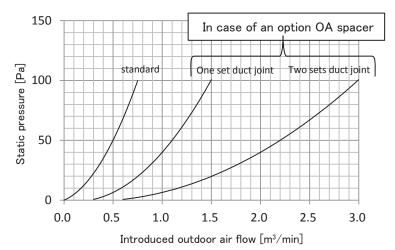
0	Usage temperature conditions				
Operation mode	Intake outdoor air	Indoor air around the ducts			
In heating	5℃ DB or higher	18.5°C WB or lower and 60% RH or lower			
In cooling	29°C DB or lower and 80% RH or lower	20°C DB or higher			

Note(1): For the OA spacer, refer to page 412.



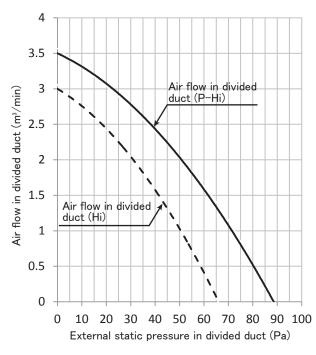
■ Fresh air intake amount & static pressure characteristics

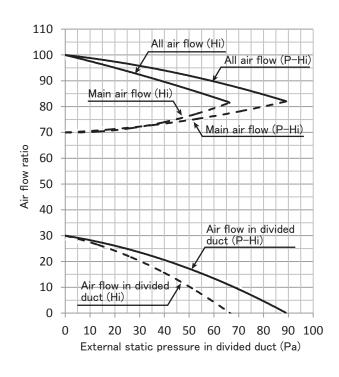
FDTC50, 60VH



CHARACTERISTICS OF AIR FLOW IN DIVIDED DUCT FOR FDTC

Models FDTC50, 60VH





■ Divided duct connection method

- 1. Open some one during 4 knock out holes, and please connect a divided duct. It isn't possible to use more than one hole at the same time.
- 2. Please make the wind shielding a blowout vent or the side where a divided duct was connected.
- 3. The shotage of the external static pressure by pressure loss for a connected divided duct and blowout unit is made up by a booster fan.

example : When $2.5 \, \text{m}^3 / \text{min}$ of ventilation by divided duct is needed in model FDTC60VH (In case of connection duct ϕ $125 \, \text{x}$ 5m)

- ①Duct resistance: Pressure loss by a flexible duct =35Pa (7Pa/m x 5m)
- 2Blowout unit: Pressure loss by a blowout unit =10Pa
- ③External static pressure when being 2.5m³/min =17Pa (See upper table.)
- \Rightarrow Correspondence by a booster fan =1+2-3 =28Pa

(3) Duct connected-High static pressure type (FDU)

(a) Indoor unit

PJG012D022

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- This munual is for instaration of an indoor unit and an outdoor air processing unit (FDU-F).
 This manual is for the installation of an indoor unit.
- For electrical wiring work (indoor), refer to page 195. For remote control installation, refer to page 199. For wireless kit installation, refer to page 370. For electrical wiring work (Outdoor) and refrigerant pipe work installation for outdoor unit, refer to page 211.

The case of FDU-F

- •The total connection capacity of the other air conditioning units and the outdoor air processing units must be from 50% to 100% (the total includes the outdoor air processing unit) The connection capacity of the outdoor air processing unit must not exceed 30% of the capacity of
- Single outdoor air processing unit can be used alone. The connection capacity of the outdoor air processing unit must be from 50% to 100% of the total capacity of the outdoor unit.

 Maximum number of outdoor air processing units that can be connected to the outdoor unit is 2units
- Capacities of the suction air processing units can be calculated with the forllowing formulas.
 FDU650FKXZE1 = 90, FDU1100FKXZE1 = 140

SAFETY PRECAUTIONS

- Read the "SAFETY PRECAUTIONS" carefully first of all and then strictly follow it during the installation work
- The precautionary items mentioned below are distinguished into two levels, AWARNING and ACAUTION | CAUSTON | Wrong installation would cause serious consequences such as injuries or death.
 || ACAUSTON | Wrong installation might cause serious consequences such as injuries or death.
- Both mentions the important items to protect your health and safety so strictly follow them by any means. ■ The meanings of "Marks" used here are as shown on the right:

 | ○ Never do it under any circumstances.
 | ○ ◆ Always do it according to the instruction.
- After completing the installation, do commissioning to confirm there are no abnormalities, and explain to the customers about "SAFETY PRECAUTIONS", correct operation method and maintenance method (air filter cleaning, operation method and temperature setting method) with user's manual of this unit. Ask your customers to keep this installation manual together with the user's manual. Also, ask them to hand over the user's manual to the new user when the owner is changed.

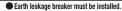
∧ **WARNING**

- Installation should be performed by the specialist.
 - 0 If you install the unit by yourself, it may lead to serious trouble such as water leakage, electric shock, fire, and injury due to overturn
- Install the system correctly according to these installation manuals.
- ation may cause explosion, injury, water leakage, electric shock, and fire Check the density refered by the foundula (accordance with ISO5149)
- If the density exceeds the limit density please consult the dealer and installate the ventilation system
- Use the genuine accessories and the specified parts for installation.
- f parts unspecified by our company are used it could cause water leakage, electric shock, fire, and injury due to overturn of the
- Ventilate the working area well in case the refrigerant leaks during installation.
- If the refrigerant contacts the fire, toxic gas is produced. In case of R32, the refrigerant could be ignited bec
- Install the unit in a location that can hold heavy weight. moroper installation may cause the unit to fall leading to accidents
- Install the unit properly in order to be able to withstand strong winds such as typhoons, and earthquakes.
- nproper installation may cause the unit to fall leading to accidents Do not mix air in to the cooling cycle on installation or removal of the air-conditioner.
- If air is mixed in, the pressure in the cooling cycle will rise abnormally and may cause explosion and injur
- Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circuit. Power source with insufficient capacity and improper work can cause electric shock and fire
- Use specified wire for electrical wiring, fasten the wiring to the terminal securely, and hold the cable securely
 in order not to apply unexpected stress on the terminal. oose connections or hold could result in abnormal heat generation or fire.
- Arrange the electrical wires in the control box properly to prevent them from rising. Fit the lid of the
- services panel property. proper fitting may cause abnormal heat and fire
- Check for refrigerant gas leakage after installation is completed.
- If the refrigerant gas leaks into the house and comes in contact with a fan heater, a stove, or an oven, toxic gas is produced Use the specified pipe, flare nut, and tools for R32 or R410A.
- ting parts (R22) could cause the unit failure and serious accident due to explosion of the cooling cycle Tighten the flare nut according to the specified method by with torque wrench.
- f the flare nut were tightened with excess torque, it could cause burst and refrigerant leakage after a long perio
- Do not put the drainage pipe directly into drainage channels where poisonous gases such as sulfide gas
- Poisonous gases will flow into the room through drainage pipe and seriously affect the user's health and safety. This can also cause the corrosion of the indoor unit and a resultant unit failure or refrigerant leak.
- Connect the pipes for refrigeration circuit securely in installation work before compressor is operated If the compressor is operated when the service valve is open without connecting the pipe, it could cause explosion and injuries due to abnormal high pressure in the system
- Stop the compressor before removing the pipe after shutting the service valve on pump down work. If the pipe is removed when the compressor is in operation with the service valve open, air would be mixed in the refrigeration circuit and it could cause explosion and injuries due to abnormal high pressure in the cooling cycle.
- Only use prescribed option parts. The installation must be carried out by the qualified installer. If you install the system by yourself, it can cause serious trouble such as water leaks, electric shocks, fire
- Do not repair by yourself. And consult with the dealer about repair.
- cause water leakage, electric shock or fire
- Consult the dealer or a specialist about removal of the air-conditioner. Improper installation may cause water leakage, electric shock or fire.
- Turn off the power source during servicing or inspection work.
- If the power is supplied during servicing or inspection work, it could cause electric shock and injury by the operating far Do not run the unit when the panel or protection guard are taken off.
- Touching the rotating equipment, hot surface, or high voltage section could cause an injury to be caught in the machine, to get burned, or electric shock.
- Shut off the power before electrical wiring work.
 - It could cause electric shock, unit failure and improper running

⚠ CAUTION

Perform earth wiring surely.

Do not connect the earth wiring to the gas pipe, water pipe, lightning rod and telephone earth wiring. Improper earth could cause unit failure and electric shock or fire due to a short circuit



If the earth leakage breaker is not installed, it could cause electric shocks or fire.

Use the circuit breaker of correct capacity. Circuit breaker should be the one that disconnect all

Do not use the indoor unit at the place where water splashes such as laundry.

It could cause the damage of the items.

Do not install the remote control at the direct sunlight.

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- It could cause the unit falling down and injury.
- If sputter entered into the unit during brazing work, it could cause damage (pinhole) of drain pan and leakage of water. To avoid damaging, keep the indoor unit packed or cover the indoor unit
- Install the drain pipe to drain the water surely according to the installation manual
- ser's health and safety.
- Be sure to perform air tightness test by pressurizing with nitrogen gas after completed refrigerant piping work If the density of refrigerant exceeds the limit in the event of refrigerant leakage in the small room, lack of oxygen can
- Check if the drainage is correctly done during commissioning and ensure the space for inspection and maintenance.
- ncomplete insulation could cause condensation and it would wet ceiling, floor, and any other valuables
- keep the surroundings clean.
- Pav extra attention, carrying the unit by hand.
- Make sure to dispose of the packaging material.

- uld cause electric shock

- sing the incorrect one could cause the system failure and fire. Do not use any materials other than a fuse of correct capacity where a fuse should be used. Connecting the circuit by wire or copper wire could cause unit failure and fire Do not install the indoor unit near the location where there is possibility of flammable gas leakages If the gas leaks and gathers around the unit, it could cause fire. Do not install and use the unit where corrosive gas (such as sulfurous acid gas etc.) or flammable gas (such as thinner, petroleum etc.) may be generated or accumulated, or volatile flammable substances are handled. ould cause the corrosion of heat exchanger, breakage of plastic parts etc. And inflammable gas could cause fire Secure a space for installation, inspection and maintenance specified in the manual. O sufficient space can result in accident such as personal injury due to falling from the installation plac Indoor unit is not waterproof. It could cause electric shock and fire. Do not use the indoor unit for a special purpose such as food storage, cooling for precision instrument, preservation of animals, plants, and a work of art. Do not install nor use the system near equipments which generate electromagnetic wave or high harmonics. Equipments like inverter equipment, private power generator, high-frequency medical equipment, or telecommunication equipment might influence the air-conditioner and cause a malfunction and breakdown. Or the air-conditioner might influence medical equipments or telecommunication equipments, and obstruct their medical activity or cause jamming. t could cause breakdown or deformation of the remote control Do not install the indoor unit at the place listed below. Places where flammable gas could leak. Places where cosmetics or special sprays are Places where carbon fiber, metal powder or any powder is floated. Place where the substances which affect the air-onditioner are generated frequently used. Highly salted area such as beach. Places where the system is affected by smoke from a chimney.

 Altitude over 1000m such as sulfide gas, chloride gas, acid, alkali or ammonic atmospheres.

 Places exposed to oil mist or steam directly. State as a barried year. The area of the a Do not install the indoor unit in the locations listed below (Be sure to install the indoor unit according to the installation manual for each model because each indoor unit has each limitation). Locations with any obstacles which can prevent inlet and outlet
 in the unit place. It could cause detection error, incapacity Locations where vibration can be amplified due to insufficient of detection, or characteristic degradation.

 Place where vibration is applied to it for a strength of structure. Locations where the infrared receiver is exposed to the direct long period of time. sunlight or the strong light beam. (in case of the infrared Place where static electricity or electromag Place where static electricity or electromag-netic wave generates.

 Place where it is exposed to high temperature or humidity for a long period of time.

 Dusty place or where the lens face could be fouled or damaged. specification unit) Locations where an equipment affected by high harmonics is cocacions where an equipment anected by high ham placed. (TV set or radio receiver is placed within 5m) Locations where drainage cannot run off safely. can affect performance or function and etc.. Do not put any valuables which will break down by getting wet under the air-conditioner.
 Condensation could drop when the relative humidity is higher than 80% or drain pipe is clogged, and it damages user's belongings. Do not use the base frame for the outdoor unit which is corroded or damaged after a long period of use. Pay attention not to damage the drain pan by weld sputter when brazing work is done near the unit ø 0 Improper connection of the drain pipe may cause dropping water into roo Do not share the drain pipe for indoor unit and GHP (Gas Heat Pump system) outdoor unit. Toxic exhaust gas would flow into room and it might cause serious damage (some poisoning or deficiency of oxygen) to 0 ccur, which can cause serious accidents For drain pipe installation, be sure to make descending slope of greater than 1/100, not to make traps
 and not to make air-bleeding. 0 Ensure the insulation on the pipes for refrigeration circuit so as not to condense water. 0 Do not install the outdoor unit where is likely to be a nest for insects and small animals. insects and small animals could come into the electronic components and cause breakdown and fire. Instruct the user to Carry the unit with 2 people if it is heavier than 20kg. Do not use the plastic straps but the grabbing place, moving the unit by hand. Use protective gloves in order to avoid injury by the aluminum fin O Leaving the materials may cause injury as metals like nail and woods are used in the package Do not operate the system without the air filter. It may cause the breakdown of the system due to clogging of the heat exchanger. Do not touch any button with wet hands. lacktriangle Do not touch the refrigerant piping with bare hands when in operation. The pipe during operation would become very hot or cold according to the operating condition, and it could cause a burn or frost Do not clean up the air-conditioner with water It could cause electric shock Do not turn off the power source immediately after stopping the operation. Be sure to wait for more than 5 minutes. Otherwise it could cause water leakage or breakdov Do not control the operation with the circuit breaker. It could cause fire or water leakage. In addition, the fan may start operation unexpectedly and it may cause injury

This model is high static ducted type air-conditioning unit. Therefore, do not use this model for direct

①Before installation Install correctly according to the installation manual. Confirm the following points: Ounit type/Power source specification OPipes/Wires/Small parts OAccessory items Accessory item 0 0 6 6 0

2 Selection of installation location for the indoor unit

- ① Select the suitable areas to install the unit under approval of the user.
 - ·Areas where the indoor unit can deliver hot and cold wind sufficiently. Suggest to the user to use a circulator if the ceiling height is over 3m to avoid warm air being accumulated on the ceiling. ·Areas where there is enough space to install and service.
 - Areas where it can be drained properly. Areas where drain pipe descending slope can be taken
 - •Areas where there is no obstruction of air flow on both air return grille and air supply port.
 •Areas where fire alarm will not be accidentally activated by the air-conditioner.

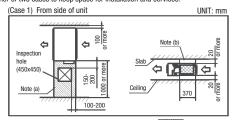
 - ·Areas where the supply air does not short-circuit.
 - Areas where it is not influenced by draft air.
 - ·Areas not exposed to direct sunlight.
 - ·Areas where dew point is lower than around 28°C and relative humidity is lower than 80%. This indoor unit is tested under the condition of JIS (Japan Industrial Standard) high humidity condition and confirmed there is no problem. However, there is some risk of condensation drop if the air-conditioner is operated under the severer condition than mentioned above If there is a possibility to use it under such a condition, attach additional insulation of 10 to
 - 20mm thick for entire surface of indoor unit, refrigeration pipe and drain pipe. Areas where TV and radio stavs away more than 1m. (It could cause iamming and noise.)
 - Areas where any items which will be damaged by getting wet are not placed such as food, table wares, server, or medical equipment under the unit.
 - ·Areas where there is no influence by the heat which cookware generates
 - Areas where not exposed to oil mist, powder and/or steam directly such as above fryer
 - Areas where lighting device such as fluorescent light or incandescent light doesn't affect the operation.
 - (A beam from lighting device sometimes affects the infrared receiver for the wireless remote control and the air-conditioner might not work properly.)

 When operating the suction air processing unit independently, it operates in the outdoor air
 - processing mode.
 - Blowout temperatures are not same at the standard unit operation and the outdoor air processing mode operations.
 - Since the temperatures become higher during cooling or lower during heating, take care of the direction of blowout outlet. Avoid directing the blowout outlet to the space where people are present
- (2) Check if the place where the air-conditioner is installed can hold the weight of the unit. If it is not able to hold, reinforce the structure with boards and beams strong enough to hold it. If the strength is not enough, it could cause injury due to unit falling.

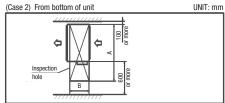
Space for installation and service

Make installation altitude over 2.5m.

Select either of two cases to keep space for installation and services.



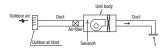
Notes (a) There must not be obstacle to draw out fan motor. (marked area) (b) Install refrigerant pipe, drain pipe, and wiring so as not to cross marked area



(Size of inspection hole) UNIT: mm					
Single type	100-140				
Multi type	45, 56	71, 90	112-160		
FDU-F	-	650	1100		
A	1100	1300	1720		
R	6'	20	725		

3 Cautions for the handling and installation place of outdoor air processing unit

This unit monitors the outdoor air temperature at the position of sensor A in the figure, and controls the start and stop with the thermostat based on the value of sensor A and the setting temperature by the remote control.



Remote control's setting temperature indicates the outdoor air temperature that controls the start and stop of operation

When the thermostat is turned off, the operation is changed to the fan mode so that the outdoor air is blown out directly into the room. For example if the remote control is set to 22°C in cooling operation, and if the outdoor air temperature is 22°C or lower at that time, the unit will go into fan operation.

- When there is a difference between the air-conditioning temperature in the room during cooling operation and the temperature of air blown out from the outdoor air processing unit, dewing water may drip from the unit. To prevent the dewing, provide a sufficient heat insulation means at the air blow outlet.
- 3 Since the air blow outlet on the outdoor air processing unit may blow out the outdoor air directly, orient the outlet in such a way that it will not blow air directly to persons in the room.
- (4) Since the unit controls the thermostat start and stop by monitoring the outdoor air temperature, it is prohibited to monitor the room temperature by means of the room temperature monitoring by changing the thermostat setting at the remote control side and the option remote temperature sensor. Otherwise, dewing water may drip from the unit at lower outdoor air temperatures during cooling operation.
- (5) Install the remote control of the outdoor air processing unit at a place closer to the administrator to avoid the end user from using the remote control.

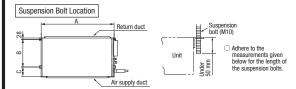
When handing over the unit to the end user, make sure to explain sufficiently about the foregoing cautions, the installation place of the remote control for the outdoor air processing unit and the position of air blow outlet

4 Preparation before installation

- If suspension bolt becomes longer, do reinforcement of earthquake resistant.
 - OFor grid ceiling

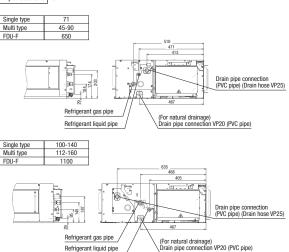
When the suspension bolt length is over 500mm, or the gap between the ceiling and roof is over 700mm, apply earthquake resistant brace to the bolt.

- OIn case the unit is hanged directly from the slab and is installed on the ceiling plane which has enough strength.
- When suspension bolt length is over 1000mm, apply the earthquake resistant brace to the bolt.
- Prepare four (4) sets of suspension bolt, nut and spring washer (M10) on site.



			UNIT: mm
Single type	_	71	100-140
Multi type	45, 56	71, 90	112-160
FDU-F	_	650	1100
A	786	986	1720
В	472	472	725
C	135	135	180

Pipe locations UNIT: mm



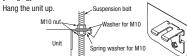
5Installation of indoor unit

Work procedure

- 1. Prepare a hole of specified size on the ceiling.
- 2. Install suspension bolts at specified positions.
- Make sure to use four suspension bolts.
 Adjust the indoor unit position in order to fit with it.
- 4. Agust the moor unit position in order or warms.
 5. Make sure to install the indoor unit horizontally. Confirm the levelness of the indoor unit with a level gauge or transparent hose filled with water. Keep the height difference at both ends of the indoor unit within 3mm.
- 6. Tighten four upper nuts and fix the unit after height and levelness adjustment.

Installation

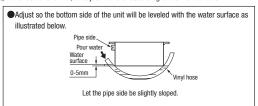
[Hanging]



the unit and the ceiling hole do not match upon installation, it may be adjusted with the long holed installation tool.

Adjustment for horizontality

○Either use a level vial, or adjust the level according to the method below.



Olf the unit is not leveled, it may cause malfunctions or inoperation of the float switch.

6 Duct Work

- ① A corrugated board (for preventing sputtering) is attached to the main body of the air-conditioner (on the outlet port). Do not remove it until connecting the duct.
- An air filter can be provided on the main body of the air-conditioner (on the inlet port). Remove it when connecting the duct on the inlet port.
- ② Blowout duct
 - Use rectangular duct to connect with unit.
- Duct size for ea

acii uiiil is as	SHOWH DEIOW.									
			UNIT: mm							
Single type	_	71	100-140							
Multi type	45, 56	71, 90	112-160							
FDU-F	-	650	1100							
A	682	882	1202							
В	172	172	172							
A										
В			- 119							

- Duct should be at their minimum length.
- •We recommend to use sound and heat insulated duct to prevent it from condensation.
- Connect duct to unit before ceiling attachment.
- - When connecting the duct to the inlet port, remove the air filter if it is fitted to the inlet port.
 - Inlet port size for each unit is as shown below.

			UNIT: mm
Single type	-	71	100-140
Multi Type	45, 56	71, 90	112-160
FDU-F	-	650	1100
A	582	742	1282
В	202	202	237

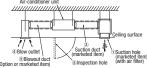


- Make sure to insulate the duct to prevent dewing on it.
- 4 Install the specific blowout duct in a location where the air will circulate to the entire room
- Conduct the installation of the specific blowout hole and the connection of the duct before attaching them to the ceiling.
- Insulate the area where the duct is secured by a band for dew condensation prevention.
- Make sure provide an inspection hole on the ceiling. It is indispensable to service electric equipment, motor, functional components and cleaning of heat exchanger.

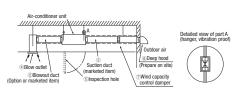
6 Duct Work (continued)

- 6Make sure to insulate ducts, in order to prevent dewing on them.
- **Connect the duct with care not to touch the blower (fan motor) with fingers. Or, when inhaling air directly from the suction side, install an air filter at the air suction inlet.



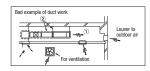


FDU-F



Bad example of duct work

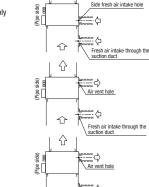
- (1) If a duct is not provided at the suction side but it is substituted with the space over the ceiling. humidity in the space will increase by the influence of capacity of ventilation fan, strength of wind blowing against the out door air louver, weather (rainy day) and others.
 - a)Moisture in air is likely to condense over the external plates of the unit and to drip on the ceiling. Unit should be operated under the conditions as listed in the above table and within the limitation of wind volume. When the building is a concrete structure, especially immediately after the construction, humidity tends to rise even if the space over the ceiling is not substituted in place of a duct. In such occasion, it is necessary to insulate the entire unit with glass wool (25mm). (Use a wire net or equivalent to hold the glass wool in place.)
 - b)It may run out the allowable limit of unit operation (Example, the case of FDU: When outdoor air temperature is 35°CDB, suction air temperature is 27°CWB) and it could result in such troubles as compressor overload, etc...
 - c)There is a possibility that the blow air volume may exceed the allowable range of operation due to the capacity of ventilation fan or strength of wind blowing against external air louver so that drainage from be heat exchanger may fall to reach the drain pan but leak outside (Example: drip on to the ceiling) with consequential water leakage in the room.
- ②If vibration damping is not conducted between the unit and the duct, and between the unit and the slab, vibration will be transmitted to the duct and vibration noise may occur. Also, vibration may be transmitted from the unit to the slab. Vibration damping must be performed.



Connecting the air intake/vent ducts the case of FDU

- 1)Fresh Air Intake
- [for air intake duct only]
- OUse the side fresh air intake hole, or supply through a part of the suction duct.

[for simultaneous air intake/vent] OIntake air through the suction duct. (the side cannot be used)



Fresh air intake through the suction duct

- (2)Air Vent
- Ouse the side air vent hole. (always use together with the air intake)

Olnsulate the duct to protect it from dew condensation

7Refrigerant pipe

Caution

- Be sure to use new pipes for the refrigerant pipes. Use the flare nut attached to the product. Regarding whether existing pipes can be reused or not, and the washing method, refer to the inst outdoor unit, catalogue or technical data.

 1) In case of reuse: Do not use old flare nut, but use the one attached to the unit.
- 2) In case of reuse: Flare the end of pipe replaced partially for R32 or R410A

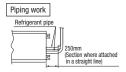
MARNING : When flared joints are reused indoors, the flare part shall be re-fabricated. (only for R32)



- •Use phosphorus deoxidized copper alloy seamless pipe (C1220T) for refrigeration pipe installation In addition, make sure there is no damage both inside and outside of the pipe, and no harmful substances such as sulfur, oxide, dust or a contaminant stuck on the pipes
- Do not use any refrigerant other than R32 or R410A.

Use special tools for R32 or R410A refrigerant

- Using other refrigerant except R32 or R410A (R22 etc.) may degrade inside refrigeration oil. And air getting into refrigeration circuit may cause over-pressure and resultant it may result in bursting, etc.
- Store the copper pipes indoors and seal the both end of them until they are brazed in order to avoid any dust, dirt or water getting into pipe. Otherwise it will cause degradation of refrigeration oil and compressor breakdown, etc.



When conducting piping work, make sure to allow the pipes to be aligned in a straight line for at least 250 mm, as shown in the left illustration. (This is necessary for the drain pump to function)

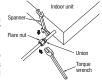
Work procedure

- Remove the flare nut and blind flanges on the pipe of the indoor unit.
 Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them. (Gas may come out at this time, but it is not abnormal.)
- Pay attention whether the flare nut pops out, (as the indoor unit is sometimes pressured.)
- 2. Make a flare on liquid pipe and gas pipe, and connect the refrigeration pipes on the indoor unit. **Bend radius of pipe must be 4D or larger. Once a pipe is bent, do not readjust the bending Do not twist a pipe or collapse to 2/3D or smaller.
 - Make sure to use flare nuts assembled on the unions. Usage of other flare nuts could cause refrigerant leakage.

 **Do a flare connection as follows:

 - Make sure to hold the nut on indoor unit pipe side using double spanner method as indicated when fastening / loosening flare nuts in order to prevent unintentional twisting of the copper pipe.

 • When fastening the flare nut, align the refrigeration pipe
 - with the center of flare nut, screw the nut for 3-4 times by hand and then tighten it by spanner with the specified torque mentioned in the table above



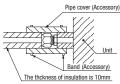
- Cover the flare connection part of the indoor unit with attached insulation material after a gas leakage inspection, and tighten both ends with attached straps.
- Make sure to insulate both gas pipes and liquid pipes completely.
 Incomplete insulation may cause dew condensation or water dropping.
- Use heat-resistant (120 °C or more) insulations on the gas side pipes.
 In case of using at high humidity condition, reinforce insulation of refrigerant pipes
- Surface of insulation may cause dew condition or water dropping, if insulations are not reinfoced
- Refrigerant is charged in the outdoor unit.

As for the additional refrigerant charge for the indoor unit and piping, refer to the installation manual attached to the outdoor unit.

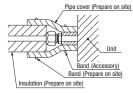
Refrigerating machine oil should not be applied to the threads of union or external surface of flare. It is because, even if the same tightening torque is applied, the oil is likely to decrease the slide friction force on the threads and increase, in turn, the axial component force so that it could crack the flare

Refrigerating machine oil may be applied to the internal surface of flare only

(The case of using thicness of insulation is 10mm)



<The case of using reinfoced insulation>



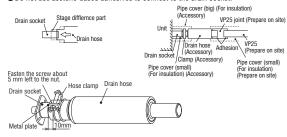
®Drain pipe

Caution

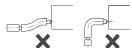
- Install the drain pipe according to the installation manual in order to drain properly. Imperfection in draining may cause flood indoors and wetting the household goods, etc.
- Do not put the drain pipe directly into the ditch where toxic gas such as sulfur, the other harmful and inflammable gas is generated. Toxic gas would flow into the room and it would cause serious damage to user's health and safety (some poisoning or deficiency of oxygen). In addition, it may cause corrosion of heat exchanger and bad smell.
- Connect the pipe securely to avoid water leakage from the joint.
- Insulate the pipe properly to avoid condensation drop.
- Check if the water can flow out properly from both the drain outlet on the indoor unit and the end of the drain pine after installation
- Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway. In addition, do not put air vent on the drain pipe. Check if water is drained out properly from the pipe during commissioning. Also, keep sufficient space for inspection and maintenance.

Work procedure

- 1. Make sure to insert the drain hose (the end mode of soft PVC) to the end of the step part of drain socket.
 - Attach the hose clamp to the drain hose around 10mm from the end, and fasten the screw about 5mm left to the nut.
 - Do not apply adhesives on this end.
 - Do not use acetone-based adhesives to connect to the drain socket.

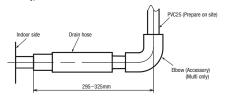


- Prepare a joint for connecting VP25 pipe, adhere and connect the joint to the drain hose (the end made of rigid PVC), and adhere and connect VP25 pipe (prepare on site). *As for drain pipe, apply VP25 made of rigid PVC which is on the market.
- Make sure that the adhesive will not get into the supplied drain hose.
- It may cause the flexible part broken after the adhesive is dried up and gets rigid.
- The flexible drain hose is intended to absorb a small difference at installation of the unit or drain pipes. Intentional bending, expanding may cause the flexible hose broken and water leakage.

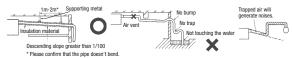


As for drain pipe, apply VP25 (OD32).

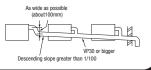
If apply PVC25 (OD25), connect the expanded connector to the drain hose, with adhesive (Multi unit only)



- 3. Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway.
 - Pay attention not to give stress on the pipe on the indoor unit side, and support and fix the pipe as close place to the unit as possible when connecting the drain pipe
 - Do not set up air vent.



When sharing a drain pipe for more than one unit, lay the main pipe 100mm below the drain outlet of the unit. In addition, select VP30 or bigger size for main drain pipe.

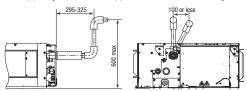


®Drain pipe (continued)

- 4. Insulate the drain pipe.
- Be sure to insulate the drain socket and rigid PVC pipe installed indoors otherwise it may cause dew condensation and water leakage
 - * After drainage test implementation, cover the drain socket part with pipe cover (small size), then use the pipe cover (big size) to cover the pipe cover (small size), clamps and part of the drain hose, and fix and wrap it with tapes to wrap and make joint part gapless.

Drain up

The position for drain pine outlet can be raised up to 600mm above the ceiling. Use elbows. for installation to avoid obstacles inside ceiling. If the horizontal drain pipe is too long before vertical pipe, the backflow of water will increase when the unit is stopped, and it may cause overflow of water from the drain pan on the indoor unit. In order to avoid overflow, keep the horizontal pipe length and offset of the pipe within the limit shown in the figure below



Otherwise, the construction point makes it same as drain pipe construction.

- Conduct a drain test after completion of the electrical work.
- 2. During the trail, make sure that drain flows properly through the piping and that no water leaks from connections
- 3. In case of a new building, conduct the test before it is furnished with the ceiling.
- 4. Be sure to conduct this test even when the unit is installed in the heating season.

Procedures

Supply about 2000 cc of water to the unit through the air outlet by using a feed water pump. 2. Check the drain while cooling operation.



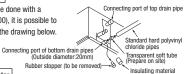


Drain situation can be checked with transparent socket.

If the electrical work has not been completed, connect a convex joint in the drain pipe connection to provide a water inlet. Then, check if water leaks from the piping system and that drain flows through the drain pipe normally.

Outline of bottom drain piping work

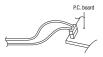
 If the bottom drain piping can be done with a descending gradient (1/50-1/100), it is possible to connect the pipes as shown in the drawing below.



Uncoupling the drain motor connector

 Uncouple the connector CnR for the drain motor as illustrated in the drawing on the right.

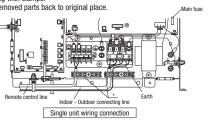
Note: If the unit is run with the connector coupled. drain water will be discharged from the upper drain pipe joint, causing a water leak



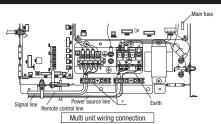
9 Wiring-out position and wiring connection

- Electrical installation work must be performed according to the installation manual by an electrical installation service provider qualified by a power provider of the country, and be executed according to the technical standards and other regulations applicable to electrical installation in the country.
- Be sure to use an exclusive circuit. Use specified cord, fasten the wiring to the terminal securely, and hold the cord securely in
- Do not put both power source line and signal line on the same route. It may cause miscom-
- munication and malfunction.
- Be sure to do D type earth work.
 For the details of electrical wiring work, see attached instruction manual for electrical wiring work.
- Remove a lid of the control box (2 screws)
- Hold each wiring inside the unit and fasten them to terminal block securely.
- Fix the wiring with clamps.
- 4. Install the removed parts back to original place.

order not to apply unexpected stress on the terminal.



(9) Wiring-out position and wiring connection (continued)



Please fix the wiring in the band not to move even if it pulls.

widin race of	Haii idoo opcomoddon											
Mo	del	Specification	Part No.									
FDU FDU-F		эреспісації	raitivo.									
45-90	650	T 5A L 250V	SSA564A149AH									
112-160	1100	T 6.3A L 250V	SSA564A149AJ									

10 External static pressure setting

ou can set External Static Pressure (E.S.P.) by method of MANUAL SETTING on remote control. Idoor unit will control fan-speed to keep rated air flow volume at each fan speed setting (Lo-P-Hi) You can set required E.S.P. by wired remote control that calculated with the set air flow rate and pressure loss of the duct connected.

- How to set E.S.P. by wired remote control
 1 Push "•" marked button(E.S.P. button).
- 2 Select indoor unit No. by using \$\Display\$ button.
- set E.S.P. by button. See detailed procedure in technical manual

You can not set E.S.P. by wireless remote control.



With E.S.P. setting, confirm that actual E.S.P. agrees with E.S.P. setting.
When E.S.P. setting is higher than actual E.S.P., the air flow rate becomes excessively higher.
This will cause water leakage if water splashes.
When E.S.P. setting is lower than actual E.S.P., the air flow rate becomes excessively lower and
the cooling or heating may become ineffective.
In order to reduce the risk above the factory E.S.P. setting is set within the range of 80 – 150 Pa
(E.S.P. setting No. 8 – 15). Be sure to use within the range of 80 – 150 Pa in actual operations. If
actual E.S.P. is lower than 80 Pa, it may cause water leakage.

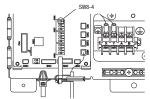
Setting No.	8	9	10	11	12	13	14	15	
E.S.P (Pa)	80	90	100	110	120	130	140	150	

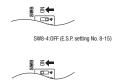
If 1 - 7 is selected for the setting No. on the remote control, the setting No. shows No. 8. If 16 - 20 is selected for the setting No. on the remote control, the setting No. shows No. 15. Factory default is No. 8

The Case of FDU-F

Setting No.	1	2	3	4	5	6	7	8	9	10	11	12
E.S.P. (Pa)	10	20	30	40	50	60	70	80	90	100	110	120

※ If 13-20 is selected for the setting No. on the remote control, the setting No. shows No. 12. Factory default is No. 8





SW8-4:0N (E.S.P. setting No. 1-19)

If SW8-4 is turned to "0N", E.S.P. setting range can be changed to 10-200 Pa (E.S.P. setting No. 1-19). This should not be used when actual E.S.P. cannot be confirmed, because the risk above

Setting No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
E.S.P. (Pa)	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	200

If 20 is selected for the setting No. on the remote control, the setting No. shows No. 19.

(1)Check list after installation

Check the following items after all installation work completed.

Check if	Expected trouble	Check
The indoor and outdoor units are fixed securely?	Falling, vibration, noise	
Inspection for leakage is done?	Insufficient capacity	
Insulation work is properly done?	Water leakage	
Water is drained properly?	Water leakage	
Power source voltage is same as mentioned in the model name plate?	PCB burnt out, not working at all	
No mis-wiring or mis-connection of piping?	PCB burnt out, not working at all	
Earth wiring is connected properly?	Electric shock	
Cable size comply with specified size?	PCB burnt out, not working at all	
Any obstacle blocks air flow on air inlet and outlet?	Insufficient capacity	
Is setting of E.S.P finished?	Excessive air flow, water drop blow out	

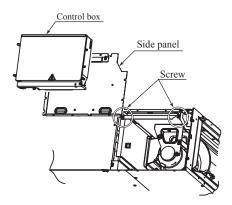
(b) Replacement procedure of the fan unit

Notes(1) The unit is a heavy item. It must be supported securely and handled with care not to drop when it is necessary to replace.

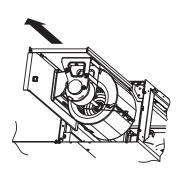
(2) For the maintenance space, refer to page 171.

Models FDU100VH, 125VH, 140VH

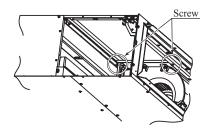
(i) Remove the control box and the side panel, and remove the screws marked in the circles (2 places) from the unit located at the near side.



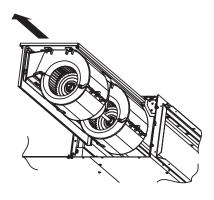
(ii) Take out the fan unit located at the near side in the arrow direction.



(iii) Remove the screws marked in the circles (2 places) from the fan unit located at the far side.



(iv) Take out the fan unit in the arrow direction.



(4) Duct connected-Low/Middle static pressure type (FDUM)

PJG012D021

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(a) Indoor unit

This manual is for the installation of an indoor unit. For electrical wiring work (Indoor), refer to page 195. For remote control installation, refer to page 199. For wireless kit installation, refer to page 370. For electrical wiring work (Outdoor) and refrigerant pipe work installation for outdoor unit, refer to page 211.

SAFETY PRECAUTIONS

- Read the "SAFETY PRECAUTIONS" carefully first of all and then strictly follow it during the installation work in order to protect yourself.
- The precautionary items mentioned below are distinguished into two levels. AWARNING and ACAUTION <u>AWARNING</u>: Wrong installation would cause serious consequences such as injuries or death. ACAUTION: Wrong installation might cause serious consequences depending on circumstances Both mentions the important items to protect your health and safety so strictly follow them by any means.
- ●The meanings of "Marks" used here are as shown on the right:
- Never do it under any circumstances. After completing the installation, do commissioning to confirm there are no abnormalities, and explain to the customers about "SAFETY PRECAUTIONS", correct operation method and maintenance method (air filter cleaning, operation method and temperature setting method) with user's manual of this unit. Ask your customers to keep this installation manual together with the user's manual. Also, ask them to hand over the user's manual to the new user when the owner is changed

MARNING

Installation should be performed by the specialist.

If you install the unit by yourself, it may lead to serious trouble such as water leakage, electric shock, fire, and injury due to overturn of the unit

Install the system correctly according to these installation manuals.

Improper installation may cause explosion, injury, water leakage, electric shock, and fire

Check the density refered by the foumula (accordance with ISO5149).

If the density exceeds the limit density, please consult the dealer and installate the ventilation system

•Use the genuine accessories and the specified parts for installation.

f parts unspecified by our company are used it could cause water leakage, electric shock, fire, and injury due to overturn of the unit.

Ventilate the working area well in case the refrigerant leaks during installation.

If the refrigerant contacts the fire, toxic gas is produced

In case of R32, the refrigerant could be ignited because of its flamm

Install the unit in a location that can hold heavy weight.

Improper installation may cause the unit to fall leading to accidents • Install the unit properly in order to be able to withstand strong winds such as typhoons, and earthquakes.

Improper installation may cause the unit to fall leading to accidents

Do not mix air in to the cooling cycle on installation or removal of the air-conditioner

If air is mixed in, the pressure in the cooling cycle will rise abnormally and may cause explosion and injuri

Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circuit. Power source with insufficient capacity and improper work can cause electric shock and fire

•Use specified wire for electrical wiring, fasten the wiring to the terminal securely, and hold the cable securely in

order not to apply unexpected stress on the terminal.

s or hold could result in abnormal heat genera ●Arrange the electrical wires in the control box properly to prevent them from rising. Fit the lid of the services

nproper fitting may cause abnormal heat and fire Check for refrigerant gas leakage after installation is completed.

If the refrigerant gas leaks into the house and comes in contact with a fan heater, a stove, or an oven, toxic gas is produce

Ouse the specified pipe, flare nut, and tools for R32 or R410A.

Using existing parts (R22) could cause the unit failure and serious accident due to explosion of the cooling cycle $\ensuremath{\bullet}$ Tighten the flare nut according to the specified method by with torque wrench.

If the flare nut were tightened with excess torque, it could cause burst and refrigerant leakage after a long perior • Do not put the drainage pipe directly into drainage channels where poisonous gases such as sulfide gas car

Poisonous gases will flow into the room through drainage pipe and seriously affect the user's health and safety. This can also

cause the corrosion of the indoor unit and a resultant unit failure or refrigerant leak • Connect the pipes for refrigeration circuit securely in installation work before compressor is operated.

or is operated when the service valve is open without connecting the pipe, it could cause explosion and injuries due to abnormal high pressure in the system.

• Stop the compressor before removing the pipe after shutting the service valve on pump down work.

If the pipe is removed when the compressor is in operation with the service valve open, air would be mixed in the refrigeration circuit
and it could cause explosion and injuries due to abnormal high pressure in the cooling cycle.

• Only use prescribed option parts. The installation must be carried out by the qualified installer. If you install the system by yourself, it can cause serious trouble such as water leaks, electric shocks, fire

● Do not repair by yourself. And consult with the dealer about repair Improper repair may cause water leakage, electric shock or fire

Consult the dealer or a specialist about removal of the air-conditioner. Improper installation may cause water leakage, electric shock or fire

Turn off the power source during servicing or inspection work. If the power is supplied during servicing or inspection work, it could cause electric shock and injury by the operating fan

Do not run the unit when the panel or protection guard are taken off.

Touching the rotating equipment, hot surface, or high voltage section could cause an injury to be caught in the machine, to get rned, or electric shock.

Shut off the power before electrical wiring work.

It could cause electric shock, unit failure and improper running.

⚠ CAUTION

Perform earth wiring surely.

Do not connect the earth wiring to the gas pipe, water pipe, lightning rod and telephone earth wiring, Improper earth could cause unit failure and electric shock or fire due to a short circuit.

Earth leakage breaker must be installed.

If the earth leakage breaker is not installed, it could cause electric shocks or fire

 Use the circuit breaker of correct capacity. Circuit breaker should be the one that disconnect all Using the incorrect one could cause the system failure and fire

Do not use any materials other than a fuse of correct capacity where a fuse should be used. Connecting the circuit by wire or copper wire could cause unit failure and fire.

• Do not install the indoor unit near the location where there is possibility of flammable gas leakage: If the gas leaks and gathers around the unit, it could cause fire.

 Do not install and use the unit where corrosive gas (such as sulfurous acid gas etc.) or flammable gas (such as thinner, petroleum etc.) may be generated or accumulated, or volatile flammable substances are handled. t could cause the corrosion of heat exchanger, breakage of plastic parts etc. And inflammable gas could cause fire.

 Secure a space for installation, inspection and maintenance specified in the manu sufficient space can result in accident such as personal injury due to falling from the installation place

• Do not use the indoor unit at the place where water splashes such as laundry.

Indoor unit is not waterproof. It could cause electric shock and fire.

 Do not use the indoor unit for a special purpose such as food storage, cooling for precision instrument, preservation of animals, plants, and a work of art.

It could cause the damage of the items. Do not install nor use the system near equipments which generate electromagnetic wave or high harmonics.

Equipments like inverter equipment, private power generator, high-frequency medical equipment, or telecommunication equipment might influence the air-conditioner and cause a malfunction and breakdown. Or the air-conditioner might influence medical equipments or telecommunication equipments, and obstruct their medical activity or cause jamming.

 Do not install the remote control at the direct sunlight. It could cause breakdown or deformation of the remote control.

Do not install the indoor unit at the place listed below.

Places where flammable gas could leak. Places where carbon fiber, metal powder or any powder is floated Place where the substances which affect the air-conditioner are generated such as suffide gas, chloride gas, acid, alkali or ammonic atmospheres.

Places exposed to oil mist or steam directly. On vehicles and ships Places where machinery which generates high harmonics is used.

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Places where cosmetics or special sprays are

frequently used. Highly salted area such as beach Heavy snow area

Places where the system is affected by smoke from a chimney.

Altitude over 1000m

 Do not install the indoor unit in the locations listed below (Be sure to install the indoor unit according to the installation manual for each model because each indoor unit has each limitation

Locations with any obstacles which can prevent inlet and outlet

Locations where vibration can be amplified due to insufficient strength of structure.

Locations where the infrared receiver is exposed to the direct sunlight or the strong light beam. (in case of the infrared specification unit)

Locations where an equipment affected by high harmonics is placed. (TV set or radio receiver is placed within 5m) Locations where drainage cannot run off safely.

It can affect performance or function and etc..

Place where vibration is applied to it for a long

period of time. Place where static electricity or electromagnetic wave generates. Place where it is exposed to high temperature

or humidity for a long period of time.

Dusty place or where the lens face could be

 Do not put any valuables which will break down by getting wet under the air-conditioner. sation could drop when the relative humidity is higher than 80% or drain pipe is clogged, and it damages user's belongings.

Do not use the base frame for the outdoor unit which is corroded or damaged after a long period of use. It could cause the unit falling down and injury.

 Pay attention not to damage the drain pan by weld sputter when brazing work is done near the unit If sputter entered into the unit during brazing work, it could cause damage (pinhole) of drain pan and leakage of water. To avoid damaging, keep the indoor unit packed or cover the indoor unit.

 Install the drain pipe to drain the water surely according to the installation manual. mproper connection of the drain pipe may cause dropping water into room and damaging user's belonging

• Do not share the drain pipe for indoor unit and GHP (Gas Heat Pump system) outdoor unit. Toxic exhaust gas would flow into room and it might cause serious damage (some poisoning or deficiency of oxygen) to (user's health and safety.

 Be sure to perform air tightness test by pressurizing with nitrogen gas after completed refrigerant piping work 0 If the density of refrigerant exceeds the limit in the event of refrigerant leakage in the small room, lack of oxygen can occur, which can cause serious accidents

 For drain pipe installation, be sure to make descending slope of greater than 1/100, not to make traps and not to make air-bleeding

Check if the drainage is correctly done during commissioning and ensure the space for inspection and maintenance

 Ensure the insulation on the pipes for refrigeration circuit so as not to condense water. Incomplete insulation could cause condensation and it would wet ceiling, floor, and any other valuables.

Do not install the outdoor unit where is likely to be a nest for insects and small animals.

nsects and small animals could come into the electronic components and cause breakdown and fire. Instruct the user to 🤇 eep the surroundings clean.

 Pay extra attention, carrying the unit by hand. Carry the unit with 2 people if it is heavier than 20kg. Do not use the plastic straps but the grabbing place, moving the unit

by hand. Use protective gloves in order to avoid injury by the aluminum fin.

Make sure to dispose of the packaging material.

Leaving the materials may cause injury as metals like nail and woods are used in the package Do not operate the system without the air filter

It may cause the breakdown of the system due to clogging of the heat exchanger.

Do not touch any button with wet hands.

Do not touch the refrigerant piping with bare hands when in operation.

The pipe during operation would become very hot or cold according to the operating condition, and it could describe the operation of the opera

 Do not clean up the air-conditioner with water. It could cause electric shock.

 Do not turn off the power source immediately after stopping the operation. Be sure to wait for more than 5 minutes. Otherwise it could cause water leakage or broaden to the sure to wait for more than 5 minutes.

Do not control the operation with the circuit breaker.

It could cause fire or water leakage. In addition, the fan may start operation unexpectedly and it may cause injury.

- 176 -

OThis model is middle static ducted type air conditioning unit. Therefore, do not use this model for direct blow type air conditioning unit.

● Install correctly according to the installation manual. ● Confirm the following points: OUnit type/Power source specification OPipes/Wires/Small parts OAccessory items Accessory item | For hanging | For refrigerant pipe | For drain pipe | For over [pigi | Pipe cover [pigi | Pigi | Pigi | Pigi | Pig

2 Selection of installation location for the indoor unit

- $\ensuremath{\textcircled{\scriptsize 1}}$ Select the suitable areas to install the unit under approval of the user.
- Areas where the indoor unit can deliver hot and cold wind sufficiently. Suggest to the user to use a circulator if the ceiling height is over 3m to avoid warm air being accumulated on the ceiling.
- · Areas where there is enough space to install and service.
- Areas where it can be drained properly. Areas where drain pipe descending slope can be taken.
- · Areas where there is no obstruction of air flow on both air return grille and air supply port.
- · Areas where fire alarm will not be accidentally activated by the air-conditioner.
- · Areas where the supply air does not short-circuit.
- · Areas where it is not influenced by draft air.
- · Areas not exposed to direct sunlight.
- Areas where dew point is lower than around 28°C and relative humidity is lower than 80%.
 This indoor unit is tested under the condition of JIS (Japan Industrial Standard) high humidity condition and confirmed there is no problem. However, there is some risk of condensation drop if the air-conditioner is operated under the severer condition than mentioned above. If there is a possibility to use it under such a condition, attach additional insulation of 10 to 20mm thick for entire surface of indoor unit, refrigeration pipe and drain pipe.
- Areas where TV and radio stays away more than 1m. (It could cause jamming and noise.)
- Areas where any items which will be damaged by getting wet are not placed such as food, table wares, server, or medical equipment under the unit.
- Areas where there is no influence by the heat which cookware generates.
- Areas where not exposed to oil mist, powder and/or steam directly such as above fryer.
- Areas where lighting device such as fluorescent light or incandescent light doesn't affect the operation.

(A beam from lighting device sometimes affects the infrared receiver for the wireless remote control and the air conditioner might not work properly.)

② Check if the place where the air-conditioner is installed can hold the weight of the unit. If it is

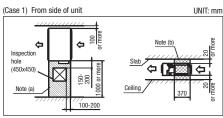
② Check if the place where the air-conditioner is installed can hold the weight of the unit. If it is not able to hold, reinforce the structure with boards and beams strong enough to hold it. If the strength is not enough, it could cause injury due to unit falling.

Space for installation and service

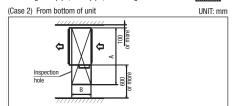
Make installation altitude over 2.5m.

(Indoor Unit)

Select either of two cases to keep space for installation and services.



Notes (a) There must not be obstacle to draw out fan motor. (mmarked area)
(b) Install refrigerant pipe, drain pipe, and wiring so as not to cross marked area



(Size of inspe	ction hole)	UNIT: mm	
Single type	40-50	60, 71	100-140	
Multi type	22-56	71, 90	112-160	
A	1100	1300	1720	
В	62	20	725	

③Preparation before installation

• If suspension bolt becomes longer, do reinforcement of earthquake resistant.

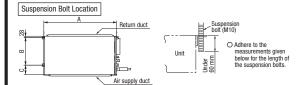
OFor grid ceiling

When the suspension bolt length is over 500mm, or the gap between the ceiling and roof is over 700mm, apply earthquake resistant brace to the bolt.

Oln case the unit is hanged directly from the slab and is installed on the ceiling plane which has enough strength.

When suspension bolt length is over 1000mm, apply the earthquake resistant brace to the bolt.

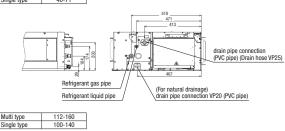
Prepare four (4) sets of suspension bolt, nut and spring washer (M10) on site.

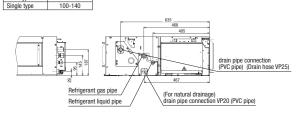


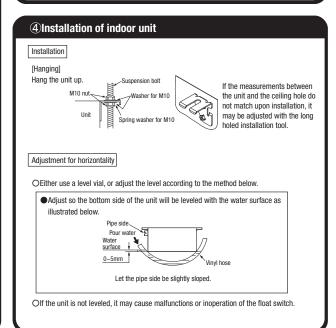
			UNIT: mm
Multi type	22-56	71, 90	112-160
Single type	40-50	60, 71	100-140
Α	786	986	1404
В	472	472	530
С	135	135	180

Pipe locations UNIT: mm

Multi type







5 Duct Work

- 1) A corrugated board (for preventing sputtering) is attached to the main body of the air-conditione (on the outlet port). Do not remove it until connecting the duct.
- ●An air filter can be provided on the main body of the air-conditioner (on the inlet port). Remove it when connecting the duct on the inlet port

2 Blowout duct

 Use rectangular duct to connect with unit. Duct size for each unit is as shown below.

			UNIT: mm
Single type	40-50	60, 71	100-140
Multi type	22-56	71, 90	112-140
A	682	882	1202
В	172	172	172
B			

- Duct should be at their minimum length.
- •We recommend to use sound and heat insulated duct to prevent it from condensation.
- Connect duct to unit before ceiling attachment.

3 Inlet port

- When shipped the inlet port lies on the back.
- ●When connecting the duct to the inlet port, remove the air filter if it is fitted to the inlet port.
- •When placing the inlet port to carry out suction from the bottom side, use the following procedure to replace the suction duct joint and the bottom plate.



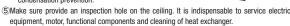
 Remove the screws which fasten the bottom plate and the duct joint on the inlet port side of the unit.

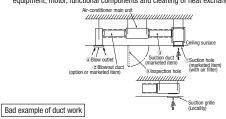


and duct joint.



- Fit the duct join with a screw; fit the bottom plate
- Make sure to insulate the duct to prevent dewing on it.
- (4)Install the specific blowout duct in a location where the air will circulate to the entire room.
- Conduct the installation of the specific blowout hole and the connection of the duct before attaching them to the ceiling.
- Insulate the area where the duct is secured by a band for dew condensation prevention.





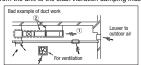
(1) If a duct is not provided at the suction side but it is substituted with the space over the ceiling humidity in the space will increase by the influence of capacity of ventilation fan, strength of wind blowing against the out door air louver, weather (rainy day) and others.

a)Moisture in air is likely to condense over the external plates of the unit and to drip on the ceiling. Unit should be operated under the conditions as listed in the above table and within the limitation of wind volume. When the building is a concrete structure, especially immediately after the construction, humidity tends to rise even if the space over the ceiling is not substituted in place of a duct. In such occasion, it is necessary to insulate the entire unit with glass wool (25mm). (Use a wire net or equivalent to hold the glass wool in place.)

b)It may run out the allowable limit of unit operation (Example: When outdoor air temperature is 35°C DB, suction air temperature is 27°C WB) and it could result in such troubles as compressor overload. etc.

c)There is a possibility that the blow air volume may exceed the allowable range of operation due to the capacity of ventilation fan or strength of wind blowing against external air louver so that drainage from be heat exchanger may fall to reach the drain pan but leak outside (Example: drip on to the ceiling) with consequential water leakage in the room.

2)If vibration damping is not conducted between the unit and the duct, and between the unit and the slab, vibration will be transmitted to the duct and vibration noise may occur. Also, vibration may be transmitted from the unit to the slab. Vibration damping must be performed.



5 Duct Work (continued)

Connecting the air intake/vent ducts

[for air intake duct only]

OUse the side fresh air intake hole, or supply through a part of the suction duct.

[for simultaneous air intake/vent] OIntake air through the suction duct (the side cannot be used)

②Air Vent

OUse the side air vent hole. (always use together with the air intake)

take through the 分 <u>-</u>6 17 分 Air vent hole = 4

Olnsulate the duct to protect it from dew condensation

6 Refrigerant pipe

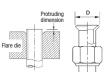
Caution

Blowout

Be sure to use new pipes for the refrigerant pipes. Use the flare nut attached to the product. Regarding whether existing pipes can be reused or not, and the washing method, refer to the instruction manual of the outdoor unit, catalogue or technical data.

- I) In case of reuse: Do not use old flare nut, but use the one attached to the unit.
 I) In case of reuse: Flare the end of pipe replaced partially for R32 or R410A.

 $\boxed{\underline{\triangle}\text{WARNING}} : \text{When flared joints are reused indoors, the flare part shall be re-fabricated. (only for R32)}$

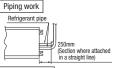


		Protruding dimer	sion for flare, mm		Flare nut tightening torque N-m	
Pipe di	 Min. pipe wall thicknes 	Rigid (Cl	utch type)	Flare O.D.		
mm	mm	For R32 For R410A	Conventional tool	mm		
6.35	0.8		0.7 - 1.3	8.9 - 9.1	14 - 18	
9.52	0.8			12.8 - 13.2	34 - 42	
12.7	0.8	0 - 0.5		16.2 - 16.6	49 - 61	
15.88	3 1			19.3 - 19.7	68 - 82	
19.05	1.2			23.6 - 24.0	100 - 120	

- Use phosphorus deoxidized copper alloy seamless pipe (C1220T) for refrigeration pipe installation. In addition, make sure there is no damage both inside and outside of the pipe, and no harmful substances such as sulfur, oxide, dust or a contaminant stuck on the pipes.

 Do not use any refrigerant other than R32 or R410A.
- Using other refrigerant except R32 or R410A (R22 etc.) may degrade inside refrigeration oil. And air
- getting into refrigeration circuit may cause over-pressure and resultant it may result in bursting, etc.

 Store the copper pipes indoors and seal the both end of them until they are brazed in order to avoid any dust, dirt or water getting into pipe. Otherwise it will cause degradation of refrigeration oil and compressor breakdown, etc.
- Use special tools for R32 or R410A refrigerant.



When conducting piping work, make sure to allow the pipes to be aligned in a straight line for at least 250 mm, as shown in the left illustration. (This is necessary for the drain pump

Work procedure

- 1. Remove the flare nut and blind flanges on the pipe of the indoor unit.
- Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the
 nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them.
 (Gas may come out at this time, but it is not abnormal.)
 Pay attention whether the flare nut pops out. (as the indoor unit is sometimes pressured.)
- Make a flare on liquid pipe and gas pipe, and connect the refrigeration pipes on the indoor unit. &Bend radius of pipe must be 4D or larger. Once a pipe is bent, do not readjust the bending
 - Do not twist a pipe or collapse to 2/3D or smaller.

 Make sure to use flare nuts assembled on the unions.
 Usage of other flare nuts could cause refrigerant
 - *Do a flare connection as follows
 - Make sure to hold the nut on indoor unit pipe side using double spanner method as indicated when fastening / loosening flare nuts in order to prevent unintentional twisting of the copper pipe.

 When fastening the flare nut, align the refrigeration pipe
 - with the center of flare nut, screw the nut for 3-4 times by hand and then tighten it by spanner with the specified torque mentioned in the table above.
- Cover the flare connection part of the indoor unit with attached insulation material after a gas
- leakage inspection, and tighten both ends with attached straps.

 Make sure to insulate both gas pipes and liquid pipes completely
- Incomplete insulation may cause dew condensation or water dropping.
- Wilso heat-resistant (120 °C or more) insulations on the gas side pipes.

 In case of using at high humidity condition, reinforce insulation of refrigerant pipes.

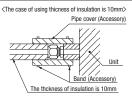
 Surface of insulation may cause dew condition or water dropping, if insulations are not

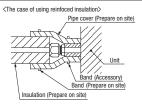
6Refrigerant pipe (continued)

Refrigerant is charged in the outdoor unit As for the additional refrigerant charge for the indoor unit and piping, refer to the installation manual attached to the outdoor unit.

Refrigerating machine oil should not be applied to the threads of union or external surface of flare. It is because, even if the same tightening torque is applied, the oil is likely to decrease the slide friction force on the threads and increase, in turn, the axial component force so that it could crack the flare

Refrigerating machine oil may be applied to the internal surface of flare only.





7 Drain pipe

Caution

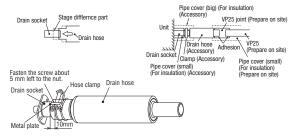
- Install the drain pipe according to the installation manual in order to drain properly. Imperfection in draining may cause flood indoors and wetting the household goods, etc.
- Do not put the drain pipe directly into the ditch where toxic gas such as sulfur, the other harmful and inflammable gas is generated. Toxic gas would flow into the room and it would cause serious damage to user's health and safety (some poisoning or deficiency of oxygen). In addition, it may cause corrosion of heat exchanger and bad smell.
- Connect the pipe securely to avoid water leakage from the joint.
- Insulate the pipe properly to avoid condensation drop.
- Check if the water can flow out properly from both the drain outlet on the indoor unit and the end of the drain pipe after installation.
- Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway. In addition, do not put air vent on the drain pipe. Check if water is drained out properly from the pipe during commissioning. Also, keep sufficient space for inspection and maintenance.

Work procedure

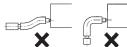
1. Make sure to insert the drain hose (the end mode of soft PVC) to the end of the step part of drain socket.

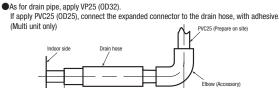
Attach the hose clamp to the drain hose around 10mm from the end, and fasten the screw about 5mm left to the nut.

- Do not apply adhesives on this end.
- Do not use acetone-based adhesives to connect to the drain socket



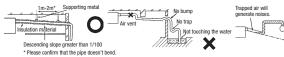
- 2. Prepare a joint for connecting VP25 pipe, adhere and connect the joint to the drain hose (the end made of rigid PVC), and adhere and connect VP25 pipe (prepare on site). %As for drain pipe, apply VP25 made of rigid PVC which is on the market.
 - Make sure that the adhesive will not get into the supplied drain hose.
 - It may cause the flexible part broken after the adhesive is dried up and gets rigid.
 - The flexible drain hose is intended to absorb a small difference at installation of the unit or drain pipes. Intentional bending, expanding may cause the flexible hose broken and water leakage.



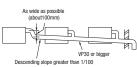


⑦Drain pipe (continued)

- 3. Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway.
 - Pay attention not to give stress on the pipe on the indoor unit side, and support and fix the pipe as close place to the unit as possible when connecting the drain pipe.
 - Do not set up air vent.



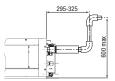
When sharing a drain pipe for more than one unit, lay the main pipe 100mm below the drain outlet of the unit. In addition, select VP30 or bigger size for main drain pipe

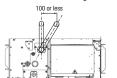


- 4. Insulate the drain pipe.
 - Be sure to insulate the drain socket and rigid PVC pipe installed indoors otherwise it may cause dew condensation and water leakage.
 - X After drainage test implementation, cover the drain socket part with pipe cover (small size), then use the pipe cover (big size) to cover the pipe cover (small size), clamps and part of the drain hose, and fix and wrap it with tapes to wrap and make joint part gapless.

Drain up

• The position for drain pipe outlet can be raised up to 600mm above the ceiling. Use elbows for installation to avoid obstacles inside ceiling. If the horizontal drain pipe is too long before vertical pipe, the backflow of water will increase when the unit is stopped, and it may cause overflow of water from the drain pan on the indoor unit. In order to avoid overflow, keep the horizontal pipe length and offset of the pipe within the limit shown in the figure below.



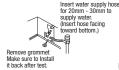


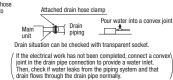
Otherwise, the construction point makes it same as drain pipe construction.

Drain test

- 1. Conduct a drain test after completion of the electrical work.
- 2. During the trail, make sure that drain flows properly through the piping and that no water leaks from connections.
- 3. In case of a new building, conduct the test before it is furnished with the ceiling.
- 4. Be sure to conduct this test even when the unit is installed in the heating season.

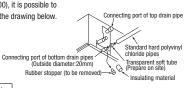
- 1. Supply about 1000 cc of water to the unit through the air outlet by using a feed water pump.
- 2. Check the drain while cooling operation.





Outline of bottom drain piping work

 If the bottom drain piping can be done with a descending gradient (1/50-1/100), it is possible to connect the pines as shown in the drawing below



Uncoupling the drain motor connector

 Uncouple the connector CnR for the drain motor as illustrated in the drawing on the right.

Note: If the unit is run with the connector coupled, drain water will be discharged from the upper drain pipe joint, causing a water leak



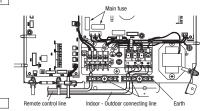
®Wiring-out position and wiring connection

Electrical installation work must be performed according to the installation manual by an
electrical installation service provider qualified by a power provider of the country, and be
executed according to the technical standards and other regulations applicable to electrical
installation in the country.

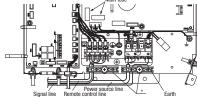
Be sure to use an exclusive circuit.

- Use specified cord, fasten the wiring to the terminal securely, and hold the cord securely in order not to apply unexpected stress on the terminal.
- Do not put both power source line and signal line on the same route. It may cause miscommunication and malfunction.
- Be sure to do D type earth work.
- For the details of electrical wiring work, see attached instruction manual for electrical wiring work.
- 1. Remove a lid of the control box (2 screws).
- 2. Hold each wiring inside the unit and fasten them to terminal block securely.
- 3. Fix the wiring with clamps.
- 4. Install the removed parts back to original place.

Single unit wiring connection



Multi unit wiring connection



* Please fix the wiring in the band not to move even if it pu

l	Model	Specification	Part No.
Γ	22-56	T3.15A L250V	SSA564A149AF
	71-160	T5A L250V	SSA564A149AH

You can set External Static Pressure (E.S.P.) by either method of MANUAL SETTING or AUTO-MATIC SETTING by remote control.

Indoor unit will control fan-speed to keep rated air flow volume at each fan speed setting (Lo-Uhi)

1. MANUAL SETTING

You can set required E.S.P. by wired remote control that calculated with the set air flow rate and pressure loss of the duct connected.

Select No.1-10 (10Pa-100Pa) from following table according to calculation result. Refer to technical manual for details of air flow characteristic.

Setting No.	1	2	3	4	5	6	7	8	9	10
External Static Pressure (Pa)	10	20	30	40	50	60	70	80	90	100

- When you set No.11-19 by remote control, unit will control fan-speed with setting of No.10 Factory default is at No.5.
- How to set E.S.P by wired remote control
 - ① Push "

 " marked button(E.S.P button).
 - $\ \ \, \ \ \, \ \ \, \ \ \,$ Select indoor unit No. by using $\ \, \mbox{\Large \textcircled{\Rightarrow}} \,$ button.
 - ③ Select setting No. by using **♦** button and set E.S.P. by button. See detailed procedure in technical manual.



You can not set E.S.P. by wireless remote control.



Caution

Be sure to set E.S.P. according to actual duct connected.

Wrong settings causes excessive air flow volume or water drop blown out.

2. AUTOMATIC SETTING

Indoor unit will recognize E.S.P. by itself automatically and select appropriate fan speed No.1-10.

9 External static pressure setting (continued)

- How to start automatic setting
 - ①, ② Same setting as MANUAL SETTING.
 - $\ensuremath{\,^{\circlearrowleft}}$ Select [AUT] by using $\ensuremath{\,\diamondsuit}$ button and press $\ensuremath{\,^{\smile}}$ button .
 - ② After setting E.S.P. at "AUT", operate unit in FAN mode with certain fan speed (Lo-Uhi).

Indoor unit fan will run automatically and recognize E.S.P. by itself.

The operation for automatic E.S.P. recognition will last about 6 minutes, and it will be stopped after recognition is completed.

Caution

- Be sure to execute AUTOMATIC SETTING by remote control AFTER ducting work is completed.

 When duct specification is changed after AUTOMATIC SETTING, be sure to execute AUTOMATIC SETTING again after power resetting and turning on again.
- Be sure to execute AUTOMATIC SETTING before trial cooling operation.

 (See ELECTRICAL WIRING WORK INSTRUCTION about trial cooling operation)
- Before AUTOMATIC SETTING, be sure to check that return air filter in duct is installed and damper is opened.

Wrong procedure causes excessive air flow or water drop blown out.

Notice

- During operation for automatic recognition (the Auto Operation), fan rotates with certain speeds regardless of set fan speed by remote control.
- When duct is set with low static pressure (around 10-50Pa), even if indoor unit operate with higher air flow volume than rated one, but it is not abnormal.
- · Winen you changed operation mode or stop operation with ON/OFF button during Auto Operation, the Auto operation will be canceled.
- \cdot In such case, be sure to execute AUTOMATIC SETTING again according to above procedure.

(11) Check list after installation

Check the following items after all installation work completed

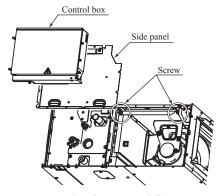
Check if	Expected trouble	Check
The indoor and outdoor units are fixed securely?	Falling, vibration, noise	
Inspection for leakage is done?	Insufficient capacity	
Insulation work is properly done?	Water leakage	
Water is drained properly?	Water leakage	
Power source voltage is same as mentioned in the model name plate?	PCB burnt out, not working at all	
No mis-wiring or mis-connection of piping?	PCB burnt out, not working at all	
Earth wiring is connected properly?	Electric shock	
Cable size comply with specified size?	PCB burnt out, not working at all	
Any obstacle blocks air flow on air inlet and outlet?	Insufficient capacity	
Is setting of E.S.P finished?	Excessive air flow, water drop blow out	

(b) Replacement procedure of the fan unit

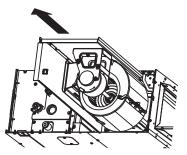
Notes(1) The unit is a heavy item. It must be supported securely and handled with care not to drop when it is necessary to replace. (2) For the maintenance space, refer to page 177.

(i) Model FDUM50VH

1) Remove the control box and the side panel, and remove the screws marked in the circles (2 places) in the figure.

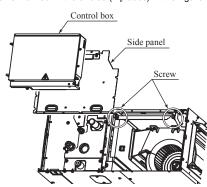


2) Take out the fan unit in the arrow direction.

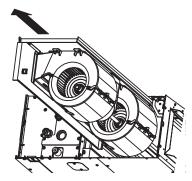


(ii) Models FDUM60VH, 71VH

1) Remove the control box and the side panel, and remove the screws marked in the circles (2 places) in the figure.

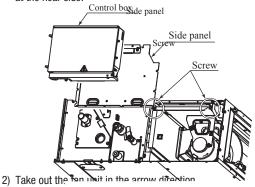


2) Take out the fan unit in the arrow direction.

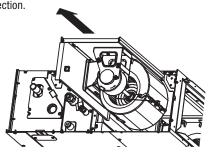


(iii) Models FDUM100VH, 125VH, 140VH

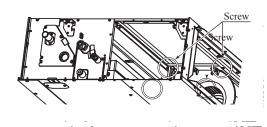
 Remove the control box and the side panel, and remove the screws marked in the circles (2 places) from the unit located at the near side.



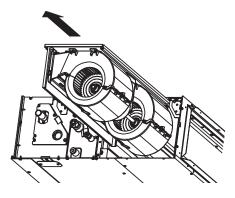
2) Take out the fan unit located at the near side in the arrow direction.



3) Remove the screws marked in the circles (2 places) from the fan unit located at the far side.



4) Take out the fan unit in the arrow direction.



(5) Ceiling suspended type (FDE)

PFA012D636/B

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This manual is for the installation of an indoor unit

For electrical wiring work (Indoor), refer to page 195. For remote control installation, refer to page 199. For wireless kit installation, refer to page 378. For electrical wiring work (Outdoor) and refrigerant pipe work installation for outdoor unit, refer to page

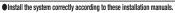
SAFETY PRECAUTIONS

- Read the "SAFETY PRECAUTIONS" carefully first of all and then strictly follow it during the installation work in order to protect yourself
- The precautionary items mentioned below are distinguished into two levels.

 ☐ WARNING and ☐ CAUTION <u>AWARNING</u>: Wrong installation would cause serious consequences such as injuries or death. ACAUTION: Wrong installation might cause serious consequences depending on circumstances
- Both mentions the important items to protect your health and safety so strictly follow them by any means. The meanings of "Marks" used here are as shown as follows:
- Never do it under any circumstances. ◆After completing the installation, do commissioning to confirm there are no abnormalities, and explain to the customers about "SAFETY PRECAUTIONS", correct operation method and maintenance method (air filter cleaning, operation method and temperature setting method) with user's manual of this unit. Ask your customers to keep this installation manual together with the user's manual. Also, ask them to hand over the user's manual to the new user when the owner is changed.

△ WARNING

- Installation should be performed by the specialist.
 - If you install the unit by yourself, it may lead to serious trouble such as water leakage, electric shock, fire, and injury due to overturn of the unit.



Improper installation may cause explosion, injury, water leakage, electric shock, and fire

• When installing in small rooms, take prevention measures not to exceed the density limit of refrigerant in the

event of leakage, referred by the formula (accordance with ISO5149). If the density of refrigerant exceeds the limit, please consult the dealer and install the ventilation system, otherwise lack of oxygen can occur, which can cause serious accidents.

• Use the genuine accessories and the specified parts for installation.

0 If parts unspecified by our company are used it could cause water leakage, electric shock, fire, and injury due to overturn of the unit.

Ventilate the working area well in case the refrigerant leaks during installation.

If the refrigerant contacts the fire, toxic gas is produced

In case of R32, the refrigerant could be ignited because of its flammability

●Install the unit in a location that can hold heavy weight. Improper installation may cause the unit to fall leading to accidents

order not to apply unexpected stress on the terminal.

• Install the unit properly in order to be able to withstand strong winds such as typhoons, and earthquakes.

Improper installation may cause the unit to fall leading to accidents

Do not mix air in to the cooling cycle on installation or removal of the air-conditioner. If air is mixed in, the pressure in the cooling cycle will rise abnormally and may cause explosion and injuries

• Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circuit.

Power source with insufficient capacity and improper work can cause electric shock and fire

•Use specified wire for electrical wiring, fasten the wiring to the terminal securely, and hold the cable securely in

Loose connections or hold could result in abnormal heat generation or fire.

• Arrange the electrical wires in the control box properly to prevent them from rising. Fit the lid of the services panel property. A

Improper fitting may cause abnormal heat and fire.

Check for refrigerant gas leakage after installation is completed

If the refrigerant gas leaks into the house and comes in contact with a fan heater, a stove, or an oven, toxic gas is produc ●Use the specified pipe, flare nut, and tools for R32 or R410A.

Using existing parts (R22) could cause the unit failure and serious accident due to explosion of the cooling cycle

Tighten the flare nut according to the specified method by with torque wrench. If the flare nut were tightened with excess torque, it could cause burst and refrigerant leakage after a long period

● Do not put the drainage pipe directly into drainage channels where poisonous gases such as sulfide gas can occur. $Poisonous\ gases\ will\ flow\ into\ the\ room\ through\ drainage\ pipe\ and\ seriously\ affect\ the\ user's\ health\ and\ safety.\ This\ can\ also\ pipe\ and\ seriously\ affect\ the\ user's\ health\ and\ safety.\ This\ can\ also\ pipe\ and\ seriously\ affect\ the\ user's\ health\ and\ safety.\ This\ can\ also\ pipe\ and\ seriously\ affect\ the\ user's\ health\ and\ safety.\ This\ can\ also\ pipe\ and\ seriously\ affect\ the\ user's\ health\ and\ safety.\ This\ can\ also\ pipe\ and\ seriously\ affect\ the\ user's\ health\ and\ safety.\ This\ can\ also\ pipe\ and\ seriously\ affect\ the\ user's\ health\ and\ safety.\ This\ can\ also\ pipe\ and\ seriously\ affect\ the\ user's\ health\ and\ safety.\ This\ can\ also\ pipe\ and\ seriously\ affect\ the\ user's\ health\ and\ safety.\ This\ can\ also\ pipe\ and\ seriously\ affect\ the\ user's\ health\ and\ safety.\ This\ can\ also\ pipe\ and\ seriously\ affect\ the\ user's\ health\ and\ safety.\ This\ can\ also\ pipe\ and\ seriously\ affect\ the\ user's\ health\ and\ safety.\ This\ can\ also\ pipe\ and\ seriously\ affect\ the\ user's\ pipe\ and\ seriously\ affect\ the\ user's\ pipe\ and\ seriously\ affect\ the\ user's\ pipe\ and\ pipe\ a$ cause the corrosion of the indoor unit and a resultant unit failure or refrigerant leak

Connect the pipes for refrigeration circuit securely in installation work before compressor is operated. If the compressor is operated when the service valve is open without connecting the pipe, it could cause explosion and injuries due to abnormal high pressure in the system

Stop the compressor before removing the pipe after shutting the service valve on pump down work.

If the pipe is removed when the compressor is in operation with the service valve open, air would be mixed in the refrigeration circuit and it could cause explosion and injuries due to abnormal high pressure in the cooling cycle.

•Only use prescribed option parts. The installation must be carried out by the qualified installer. If you install the system by yourself, it can cause serious trouble such as water leaks, electric shocks, fire

Do not repair by yourself. And consult with the dealer about repair

Improper repair may cause water leakage, electric shock or fire Consult the dealer or a specialist about removal of the air-conditioner. 0 Improper installation may cause water leakage, electric shock or fire.

● Turn off the power source during servicing or inspection work.

If the power is supplied during servicing or inspection work, it could cause electric shock and injury by the operating fan

Do not run the unit when the panel or protection guard are taken off.

Touching the rotating equipment, hot surface, or high voltage section could cause an injury to be caught in the machine, to get burned, or electric shock.

Shut off the power before electrical wiring work.

It could cause electric shock, unit failure and improper running

↑ CAUTION

Perform earth wiring surely.

Do not connect the earth wiring to the gas pipe, water pipe, lightning rod and telephone earth wiring. Improper earth could cause unit failure, electric shock and fire due to a short circuit.

Earth leakage breaker must be installed.

If the earth leakage breaker is not installed, it can cause fire and electric shocks.

 Use the circuit breaker of correct capacity. Circuit breaker should be the one that disconnect all poles under over current. Using the incorrect one could cause the system failure and fire

 Do not use any materials other than a fuse of correct capacity where a fuse should be used. Connecting the circuit by wire or copper wire could cause unit failure and fire.

 Do not install the indoor unit near the location where there is possibility of flammable gas leakage: If the gas leaks and gathers around the unit, it could cause fire.

 Do not install and use the unit where corrosive gas (such as sulfurous acid gas etc.) or flammable gas (such as thinner, petroleum etc.) may be generated or accumulated, or volatile flammable substances are handled.

It could cause the corrosion of heat exchanger, breakage of plastic parts etc. And inflammable gas could cause fire.

 Secure a space for installation, inspection and maintenance specified in the manual nsufficient space can result in accident such as personal injury due to falling from the installation place

 Do not use the indoor unit at the place where water splashes such as laundry. ndoor unit is not waterproof. It could cause electric shock and fire

Do not use the indoor unit for a special purpose such as food storage, cooling for precision instrument, preservation of animals, plants, and a work of art.

It could cause the damage of the items.

 Do not install nor use the system near equipments which generate electromagnetic wave or high harmonics. Equipments like inverter equipment, private power generator, high-frequency medical equipment, or telecommunication equipment might influence the air-conditioner and cause a malfunction and breakdown. Or the air-conditioner might influence medical equipments or telecommunication equipments, and obstruct their medical activity or cause jamm

 Do not install the remote control at the direct sunlight. It could cause breakdown or deformation of the remote control

Do not install the indoor unit at the place listed below

Places where flammable gas could leak Places where carbon fiber, metal powder or any powder is floated.

Place where the substances which affect the air-conditioner are generated such as sulfide gas, chloride gas, acid, alkali or ammonic atmospheres. Places exposed to oil mist or steam directly.

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On vehicles and ships
Places where machinery which generates high harmonics is use

Places where cosmetics or special sprays are

Highly salted area such as beach Heavy snow area

Places where the system is affected by

smoke from a chimn Altitude over 1000m

 Do not install the indoor unit in the locations listed below (Be sure to install the indoor unit according to the installation manual for each model because each indoor unit has each limitation)

Locations with any obstacles which can prevent inlet and outlet

Locations where vibration can be amplified due to insufficient strenath of structure.

Locations where the infrared receiver is exposed to the direct sunlight or the strong light beam. (in case of the infrared specification unit)

Locations where an equipment affected by high harmonics is placed. (TV set or radio receiver is placed within 5m) Locations where drainage cannot run off safely.

It can affect performance or function and etc..

Do not install the motion sensor at following places. It could cause detection error, incapacity of detection, or characteristic degradation Place where vibration is applied to it for a long period of time. Place where static electricity or electro netic wave generates. Place where it is exposed to high temperature

or humidity for a long period of time Dusty place or where the lens face could be fouled or damaged.

 Do not put any valuables which will break down by getting wet under the air-conditioner. on could drop when the relative humidity is higher than 80% or drain pipe is clogged, and it dama

Do not use the base frame for the outdoor unit which is corroded or damaged after a long period of use. It could cause the unit falling down and injury. Pay attention not to damage the drain pan by weld sputter when brazing work is done near the unit

Œ If sputter entered into the unit during brazing work, it could cause damage (pinhole) of drain pan and leakage of water. To avoid damaging, keep the indoor unit packed or cover the indoor unit.

 Install the drain pipe to drain the water surely according to the installation manual. Improper connection of the drain pipe may cause dropping water into room and damaging user's belonging • Do not share the drain pipe for indoor unit and GHP (Gas Heat Pump system) outdoor unit

Toxic exhaust gas would flow into room and it might cause serious damage (some poisoning or deficiency of oxygen) to user's health and safety.

 Be sure to perform air tightness test by pressurizing with nitrogen gas after completed refrigerant piping work. If the density of refrigerant exceeds the limit in the event of refrigerant leakage in the small room, lack of oxygen can occur, which can cause serious accidents.

 For drain pipe installation, be sure to make descending slope of greater than 1/100, not to make traps, and not to make air-bleeding. Check if the drainage is correctly done during commissioning and ensure the space for inspection and maintena

Ensure the insulation on the pipes for refrigeration circuit so as not to condense water.

 Do not install the outdoor unit where is likely to be a nest for insects and small animals. ects and small animals could come into the electronic components and cause breakdown and fire. Instruct the user to keep the surro

Pav extra attention, carrying the unit by hand.

Carry the unit with 2 people if it is heavier than 20kg. Do not use the plastic straps but the grabbing place, moving the uni by hand. Use protective gloves in order to avoid injury by the aluminum fin.

Make sure to dispose of the packaging material

Leaving the materials may cause injury as metals like nail and woods are used in the package Do not operate the system without the air filter.

It may cause the breakdown of the system due to clogging of the heat exchanger. Do not touch any button with wet hands.

Do not touch the refrigerant piping with bare hands when in operation.

The pipe during operation would become very hot or cold according to the operating condition, and it could cause a burn or fro

 Do not clean up the air-conditioner with water. It could cause electric shock.

Do not turn off the power source immediately after stopping the operation

Be sure to wait for more than 5 minutes. Otherwise it could cause water leakage or breakdow

Do not control the operation with the circuit breaker.

t could cause fire or water leakage. In addition, the fan may start operation unexpectedly and it may cause injury

1 Before installation Install correctly according to the installation manual Confirm the following points: OUnit type/Power source specification OPipes/Wires/Small parts OAccessory items Accessory item For unit hanging <u></u> (0)Q (M)

2Selection of installation location for the indoor unit

- ① Select the suitable areas to install the unit under approval of the user
 - Areas where the indoor unit can deliver hot and cold wind sufficiently. Suggest to the user to use a circulator if the ceiling height is over 3m to
 - avoid warm air being accumulated on the ceiling. In case of having the motion sensor, the installation height must be no higher than 4 m. It could reduce the sensitivity of motion sensor, disabling the detection. Areas where there is enough space to install and service.

 - Areas where it can be drained properly. Areas where drain pipe descending slope can be taken.

 Areas where there is no obstruction of air flow on both air return grille and air supply port.

 - Areas where fire alarm will not be accidentally activated by the air-conditioner. Areas where the supply air does not short-circuit. Areas where it is not influenced by draft air.

 - Areas not exposed to direct sunlight.

 Areas where dew point is lower than around 28°C and relative humidity is lower than 80%. This indoor unit is tested under the condition of JIS (Japan Industrial Standard) high humidity condition and confirmed there is no problem. However, there is some risk of condensation drop if the air-conditioner is operated under the severer condition than mentioned above.

 If there is a possibility to use it under such a condition, attach additional insulation of
 - 10 to 20mm thick for entire surface of indoor unit, refrigeration pipe and drain pipe.

 Areas where TV and radio stays away more than 1m. (It could cause jamming and noise.)

 - Areas where any items which will be damaged by getting wet are not placed such as food, table wares, server, or medical equipment under the unit.

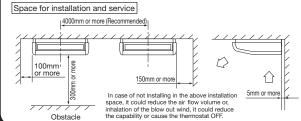
 Areas where there is no influence by the heat which cookware generates.

 Areas where not exposed to oil mist, powder and/or steam directly such as above fryer.

 Areas where lighting device such as fluorescent light or incandescent light

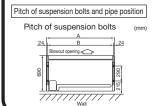
 - doesn't affect the operation.
- A beam from lighting device sometimes affects the infrared receiver for the wireless remote control and the air conditioner might not work properly.) (2) Check if the place where the air-conditioner is installed can hold the weight of the unit.

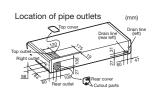
 If it is not able to hold, reinforce the structure with boards and beams strong enough
- to hold it. If the strength is not enough, it could cause injury due to unit falling
- If there are 2 units of wireless type, keep them away for more than 6m to avoid malfunction due to cross communication.
- When plural indoor units are installed nearby, it is recommended to separate each other more than 4m.



③Preparation before installation

- •If suspension bolt becomes longer, do reinforcement of earthquake resistant. O For grid ceiling
 - When suspension bolt length is over 500mm, or the gap between the ceiling and roof is over 700mm, apply earthquake resistant brace to the bolt.
- O In case the unit is hanged directly from the slab and is installed on the ceiling plane which has enough strength. When suspension bolt length is over 1000mm, apply the earthquake resistant brace to the bolt.
- Prepare four (4) sets of suspension bolt, nut and spring washer (M10) on site.





③Preparation before installation (continued)

			(mm)
Series	type	Α	В
Single split (PAC)	40 to 50type	1070	1022
series	60 to 71type	1320	1272
	100 to 140type	1620	1572
	36 to 56type	1070	1022
VRF (KX) series	71type	1320	1272
	112 to 140type	1620	1572

Liquid

9 81

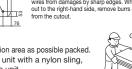
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*Pipes can be taken out in 3 directions (rear, right or

- Cut out holes using nippers, etc.
 Cut out holes to take out pipes along the cutoff line on the rear cover.
 Cut out the top face cover aligning to the piping position

- position. When taking pipe out to right-hand side, cut out a hole along the groove at the inside of side panel. After installing pipes and wires, seal clearances around pipes and wires with putty, etc. to shut off dust

Make sure to install the covers at rear and top in order to protect the inside of unit from intrusion of dust or protect wires from damages by sharp edges. When taking then out to the right-hand side, remove burrs or sharp edge:



- •Move the box as close to the installation area as possible packed. •If it must be unpacked, wrap the unit with a nylon sling,
- and be careful not to damage the unit. *Do not hold fragile plastic parts, such as the side panel,
- •If you need to lay the unit on a floor after unpacking, always put it with the intake grille facing upward.

Preparation before instalation

Pipe position

271 Unit interior 10 mm slope

Haulage

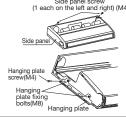
1. Remove the air return grille. Slide stoppers (4 places) of the catches. then pull out the pins (4 or 6 places).



Remove the hanging plate Remove the screw, and then loosen the fixing bolts. Unscrew 8-12mm



2. Remove the side panel. Remove the screw and detach the side panel by sliding it toward the direction indicated by the arrow mark. Side panel screw (1 each on the left and right) (M4)



(4) Installation of indoor unit

Hanging plate

⚠ WARNING

Completely seal the hole in the wall with putty. If not sealed properly, dust, insects, small animals, and highly humid air may enter the room from outside, which could result in fire or other hazarde.

⚠ CAUTION

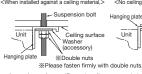
Completely seal the hole in the wall with putty. If not sealed properly, furniture and other fixtures may be damaged by water leakage or condensation.



Work procedure

- Select the suspension bolt locations and the pipe hole location. (1) Use enclosed paper pattern as a reference, and drill the holes for the suspension bolts and pipe. Decide the locations based on direct measurements
- (2) Once the locations are properly placed, the paper pattern can be removed.
- 2. Install the suspension bolts in place.
- 3. Fix with 4 suspension bolts, which can endure load of 500N.
- Check the measurements given at the right figure for the length of the suspension bolts
- 5. Fasten the hanging plate onto the suspension bolts.







Install the unit to the hanging plate. (See the figure at right.)

- (1) Slide the unit in from front side to get it hanged on the hanging plate with the bolts. (2) Fasten the four fixing bolts (M8: 2
- each on the left and right sides) firmly. (3) Fasten the two screws (M4: 1 each on

the left and right sides). **⚠WARNINIG**: Hang a side panel on from the panel side to the rear side and then fasten it securely onto

the indoor unit with screws *To ensure smooth drain flow, install the unit with a descending slope toward the drain outlet.

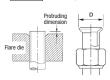
⚠ CAUTION: Do not give the reversed slope, which may cause water leaks.

⑤ Refrigerant pipe

Caution

- Be sure to use new pipes for the refrigerant pipes. Use the flare nut attached to the product.Regarding whether existing pipes can be reused or not, and the washing method, refer to the instruction manual of the Regarding whether existing pipes can be outdoor unit, catalogue or technical data.
 - 1) In case of reuse: Do not use old flare nut, but use the one attached to the unit.
 - 2) In case of reuse: Flare the end of pipe replaced partially for R32 or R410A.

MARNING : When flared joints are reused indoors, the flare part shall be re-fabricated. (only for R32)



			Protruding dimension for flare, mm														
	Pipe dia. d mm	Min. pipe wall thickness mm	Rigid (Clutch type)		Flare O.D. D	Flare nut tightening torque											
			For R32 For R410A	Conventional tool	mm	N-m											
	6.35	0.8	0-0.5		8.9 - 9.1	14 - 18											
	9.52	0.8		0 - 0.5	0 - 0.5	0 - 0.5											12.8 - 13.2
	12.7	0.8					0.7 - 1.3	16.2 - 16.6	49 - 61								
	15.88	1			19.3 - 19.7	68 - 82											
	19.05	1.2			23.6 - 24.0	100 - 120											

- Use phosphorus deoxidized copper alloy seamless pipe (C1220T) for refrigeration pipe installation. In addition, make sure there is no damage both inside and outside of the pipe, and no harmful substances such as sulfur, oxide, dust or a contaminant stuck on the pipes
- Do not use any refrigerant other than R32 or R410A. Using other refrigerant except R32 or R410A (R22 etc.) may degrade inside refrigeration oil. And air
- getting into refrigeration circuit may cause over-pressure and resultant it may result in bursting, etc.

 Store the copper pipes indoors and seal the both end of them until they are brazed in order to avoid any dust, dirt or water getting into pipe. Otherwise it will cause degradation of refrigeration oil and compressor breakdown, etc
- Ouse special tools for R32 or R410A refrigerant.

Work procedure

- Remove the flare nut and blind flanges on the pipe of the indoor unit.
 Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them. (Gas may come out at this time, but it is not abnormal.)
- Pay attention whether the flare nut pops out, (as the indoor unit is sometimes pressured.)
- Make a flare on liquid pipe and gas pipe, and connect the refrigeration pipes on the indoor unit.

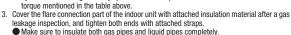
 When pulling out pipes backward or upward, install them passing through the attached
- cover together with the electrical cabling.

 Seal the gap with putty, or other, to protect from dust, etc.

 Bend radius of pipe must be 4D or larger. Once a pipe is bent, do not readjust the bending.
- Do not twist a pipe or collapse to 2/3D or smaller.

 Make sure to use flare nuts assembled on the unions.
 Usage of other flare nuts could cause refrigerant leakage. *Do a flare connection as follows:
- Make sure to hold the nut on indoor unit pipe side using double spanner method as indicated when fastening /
- outpute spatiane meanou as mulcated when asterling / loosening flare nuts in order to prevent unintentional twisting of the copper pipe.

 When fastening the flare nut, align the refrigeration pipe with the center of flare nut, screw the nut for 3-4 times by hand and then tighten it by spanner with the specified



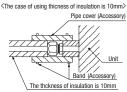
- | Mineral results of miscale bourl gas pipes and require pipes or miprotery.
 | Wish complete insulation may cause dew condensation or water dropping.
 | Use heart-resistant (120 °C or more) insulations on the gas side pipes.
 | In case of using at high humidity condition, reinforce insulation of refrigerant pipes.

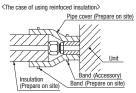
- Surface of insulation may cause dew condition or water dropping, if insulations are not reinfoced. Refrigerant is charged in the outdoor unit.
- As for the additional refrigerant charge for the indoor unit and piping, refer to the installation

Refrigerating machine oil should not be applied to the threads of union or external surface of flare. It is because, even if the same tightening torque is applied, the oil is likely to decrease the slide friction force on the threads and increase, in turn, the axial component force so that it could crack the flare

by the stress corrosion.

Refrigerating machine oil may be applied to the internal surface of flare only.

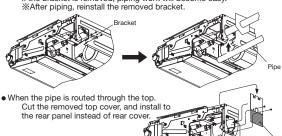




The pipe can be connected from three different directions. (back, reight, top)

When the pipe is routed through the back

If the bracket is removed, piping work will become easy *After piping, reinstall the removed bracket.



6 Drain pipe

The drain pipes may pull out either from back, right or left side.

- Install the drain pipe according to the installation manual in order to drain properly. Imperfection in draining may cause flood indoors and wetting the household goods, etc.
- Do not put the drain pipe directly into the ditch where toxic gas such as sulfur, the other harmful andinflammable gas is generated. Toxic gas would flow into the room and it would cause serious damage to user's health and safety (some poisoning or deficiency of oxygen). In addition, it may cause corrosion of heat exchanger and bad smell.
- Connect the pipe securely to avoid water leakage from the joint. Insulate the pipe properly to avoid condensation drop.

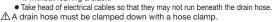
- Check if the water can flow out properly from both the drain outlet on the indoor unit and the end of the drain pipe after installation.

 Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway. In addition, do not put air vent on the drain pipe. Check if water is drained out properly from the pipe during commissioning. Also, keep sufficient space for inspection and maintenance

Work procedure

- 1. Insert drain hose completely to the base. and tighten the drain hose clamp securely. (adhesive must not be used.)
- *When plumbing on the left side, move the rubber plug and the cylindrical insulating materials by the pipe connecting hole on the left side of the unit to the right side
- ⚠ Beware of a possible outflow of water that may
- occur upon removal of a drain plug.

 2. Fix the drain hose at the lowest point with a hose clamp supplied as an accessory. **Give a drain hose a gradient of 10mm as
 - illustrated in the right drawing by laying it without leaving a slack.



- There is a possibility that drain water overflows. Connect VP20(prepare on site) to drain hose. (Adhesive must not be used.) W Use commercially available rigid PVC general pipe VP20 for drain pipe.
- Do not to make the up-down bending and trap in the mid-way while assum
 - ing that the drain pipes is downhill. (more than 1/100)

 Never set up air vent.
 - Insulate the drain pipe.
 - Insulate the drain hose clamp with the heat insulation supplied as accessories.
 - When the unit is installed in a humid place, consider precautions against dew condensation such as heat insulation for the drain pipe.

Drain test

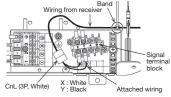
- After installation of drain pipe, make sure that drain system work in good condition and no water leakage from joint and drain pan.
- Do drain test even if installation of heating season.

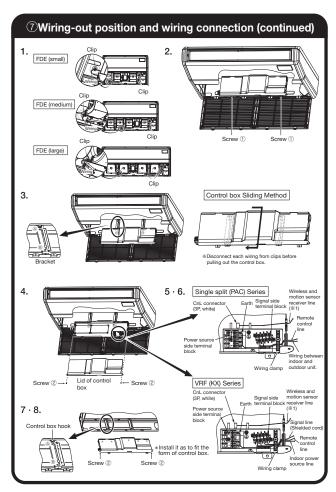
Wiring-out position and wiring connection

- Electrical installation work must be performed according to the installation manual by an electrical installation service provider qualified by a power provider of the country, and be executed according to the technical stan-dards and other regulations applicable to electrical installation in the country. Be sure to use an exclusive circuit.
- Use specified cord, fasten the wiring to the terminal securely, and hold the cord securely in order not to apply unexpected stress on the terminal.
- Do not put both power source line and signal line on the same route. It may cause miscommunication and malfunction.
- Be sure to do D type earth work.
- For the details of electrical wiring work, see attached instruction manual for electrical wiring work.
- Remove wiring from clips.
- Remove the control box (Screw ①, 2pcs).
 Pull out the control box by sliding along the groove on the bracket
- (Direction $\mathbb{A} \to \mathbb{B}$). Remove the lid of control box (Screw \mathbb{Q} , 2pcs)
- Hold each wiring inside the unit and connect to the terminal block surely.
- Fix the wiring by clamp.
 Install the lid of control box (Screw ②, 2pcs).
- Return the control box to the original place by sliding along the groove on the bracket (Direction $\widehat{\mathbb{B}} \rightarrow \widehat{\mathbb{A}}$). Install the removed parts at their original places.
- **1 Wiring for the signal receiving section of wireless kit (Option) and motion sensor kit (Option) are connected at the time of shipping from the factory. It is not necessary to disconnect these wiring when wired remote control is connected. When the wired/wireless kits are used together, it becomes necessary to set the slaves and remote control. For the methods of installing the wireless kit and the motion sensor kit, refer to the attached installation manuals.

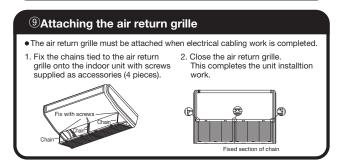
NOTICE

When installing the Superlink adapter, remove the band fixed the wiring from receiver.





Becontrol mode switching **The control content of indoor units can be switched in following way. (is the default setting) **Switch No. | Control Content | *Sw8-4 | ON | Indoor unit silent mode | *OFF | Normal operation |



10Check list after installation • Check the following items after all installation work completed. Check if Expected trouble The indoor and outdoor units are fixed securely? Falling, vibration, noise Inspection for leakage is done? Insufficient capacity Insulation work is properly done? Water leakage Water is drained properly? Water leakage Power source voltage is same as mentioned in the model name plate? PCB burnt out, not working at all There is mis-wiring or mis-connection of piping? PCB burnt out, not working at all Earth wiring is connected properly? Electric shock Cable size comply with specified size? PCB burnt out, not working at all Any obstacle blocks air flow on air inlet and outlet? Insufficient capacity

(6) Wall mounted type (SRK)

(a) Models SRK50, 60ZSX-W

RLF012A202B

Model SRK20,25,35,50,60ZSX R32/R410A REFRIGERANT USED

- This installation manual deals with an indoor unit installation only. For an outdoor unit installation, refer to page 211.
- This unit is designed for R32 or R410A. See a label on the outdoor unit to check refrigerant information.

SAFETY PRECAUTIONS

- Before installation, read the "SAFETY PRECAUTIONS" carefully and strictly follow it during the installation work in order to protect yourself.
 The precautionary items mentioned below are distinguished into two levels, [AWARNING] and [ACAUTION].
 Be sure to confirm no operation problem on the equipment after completing the installation. If unusual noise can be heard during the test run, consult the dealer.
 Be sure to explain the operating methods as well as the maintenance methods of this equipment to the
- ⚠ WARNING Indicates a potentially hazardous situation which, if not avoided, can result in serious consequences such as death or severe injury.
 ⚠ CAUTION Indicates a potentially hazardous situation which, if not avoided, can result in personal injury or property damage.
 Both mention the important items to protect your health and safety. Therefore, strictly follow them by any means.

⚠ WARNING

Be sure to use only for residential purpose.

If this unit is installed in inferior environment such as machine shop, vehicle (like ship), warehouse, etc., it can malfunction.

etc., it can manufactor.

Installation must be carried out by the qualified installer completely in accordance with the installation manual.

Installation by non qualified person or incorrect installation can cause serious troubles such as water leak, electric shock, fire and personal injury.

Be sure to wear protective goggles and gloves while performing installation work.

Improper safety measures can result in personal injury.

Use the original accessories and the specified components for the installation.

Using parts other than those prescribed may cause water leak, electric shock, fire and personal injury.

Do not install the unit near the location where leakage of flammable gases can occur. If leaked gases accumulate around the unit, it can cause fire resulting in property damage and personal injury.

when installing the unit in small rooms, make sure that refrigerant density does not exceed the limit (Reference: ISOS149) in the event of leakage. If refrigerant density exceeds the limit, consult the dealer and install the ventilation system. Otherwise lack of oxygen can occur resulting in serious accident.

Install the unit in a location where unit will remain stable, horizontal and free

of any vibration transmission.

Unsuitable installation location can cause the unit to fall resulting in material damage and personal injury.

Do not run the unit with removed panels or protections.

Touching rotating equipments, hot surfaces or high voltage parts can cause personal injury due to entrapment, burn or electric shock.

entrapment, burn or electric shock.

This unit is designed specifically for R32 or R410A.

Using any other refrigerant can cause unit failure and personal injury.

Do not vent R32 or R410A into atmosphere.

R32 is a fluorinated greenhouse gas with a Global Warming Potential(GWP)=675.

R410A is a fluorinated greenhouse gas with a Global Warming Potential(GWP)=2088.

Make sure that no air enters the refrigerant circuit when the unit is installed and removed.

If air enters the refrigerant circuit, the pressure in the refrigerant circuit will become too high, which can cause burst and personal injury.

Be sure to use the prescribed pipes, flare nuts and tools for R32 or R410A.
Using existing parts (for R22 or R407C) can cause refrigerant circuit burst resulting in unit failure and personal injury.

Be sure to connect both liquid and gas connecting pipes properly before op-

Be sure to commerce both induited and gas commercing pipes properly.

Do not open the liquid and gas service valves before completing piping work, and evacuation.

If the compressor is operated when connecting pipes are not connected and service valves are open, air can be sucked into the refrigerant circuit which can cause anomalous high pressure resulting in

burst or personal injury.

Be sure to tighten the flare nuts to specified torque using the torque wrench.

Tightening flare nuts with excess torque can cause burst and refrigerant leakage after a long period.

During pump down work, be sure to stop the compressor before closing service valves and removing connecting pipes.

If the connecting pipes are removed when the compressor is in operation and service valves are

open, air can be sucked into the refrigerant circuit which can cause anomalous high pressure result-

ing in burst or personal injury.

In the event of refrigerant leakage during installation, be sure to ventilate the working area properly.

If the refrigerant comes into contact with naked flames, poisonous gases will be produced

Electrical work must be carried out by the qualified electrician, strictly in accordance with national or regional electricity regulations.

Incorrect installation can cause electric shock, fire or personal injury.

Make sure that earth leakage breaker and circuit breaker of appropriate ca-

pacities are installed.

Circuit breaker should be able to disconnect all poles under over current. Absence of appropriate breakers can cause electric shock, personal injury or property damage.

Be sure to switch off the power source in the event of installation, mainte-

nance or service.

If the power source is not switched off, there is a risk of electric shock, unit failure or personal injury.

Be sure to tighten the cables securely in terminal block and relieve the cables properly to prevent overloading the terminal blocks.

Loose connections or cable mountings can cause anomalous heat production or fire.

Do not process, splice or modify the power cable, or share the socket with

other power plugs.

Improper power cable or power plug can cause fire or electric shock due to poor connection, insufficient insulation or over-current.

Do not perform any change in protective device or its setup condition yourself. Changing protective device specifications can cause electric shock, fire or burst.

Be sure to clamp the cables properly so that they do not touch any internal component of the unit.
If cables touch any internal component, it can cause overheating and fire.

Be sure to install service cover properly.

Improper installation can cause electric shock or fire due to intrusion of dust or water.

Improper installation can cause electric shock or fire due to intrusion of outs or water.

Be sure to use the prescribed power and connecting cables for electrical work. Using improper cables can cause electric leak or fire.

This appliance must be connected to main power source by means of a circuit breaker or switch with a contact separation of at least 3mm. Improper electrical work can cause unit failure or personal injury.

When plugging this unit, a plug conforming to the standard IEC60884-1 must be used.

Using improper plug can cause electric shock or fire.

Be sure to connect the power source cable with power source properly.

Improper connection can cause intrusion of dust or water resulting in electric shock or fire.

⚠ CAUTION

Take care when carrying the unit by hand.
If the unit weight is more than 20kg, it must be carried by two or more persons.
Do not carry the unit by the plastic straps. Always use the carry handle.
Do not install the outdoor unit in a location where insects and small animals can inhabit.

Insects and small animals can enter the electrical parts and cause damage resulting in fire or per-sonal injury. Instruct the user to keep the surroundings clean.

If the outdoor unit is installed at height, make sure that there is enough space for installation, maintenance and service.

Insufficient space can result in personal injury due to falling from the height.

To not install the unit near the location where neighbours are bothered by noise or air generating from the unit.

It can affect surrounding environment and cause a claim.

Do not install in the locations where unit is directly exposed to corrosive gases (like sulphide gas, chloride gas), sea breeze or salty atmosphere.

It can cause performance degradation, corrosion and damage of component bispose of all packing materials properly.

Packing materials contain nails and wood which can cause personal injury. Keep the polybag away from children to avoid the risk of suffocation.

Do not put anything on the outdoor unit.

Only the property of the polybag away from children to avoid the risk of suffocation.

gases (like suipnice gas, cinome gas, common gas, comm

Equipment such as inverters, standby generators, medical high frequency equipments and telecommunication equipments can affect the system, and cause malfunctions and breakdowns.

The system can also affect medical equipment and telecommunication equipment, and obstruct its

function or cause jamming

- Do not install the unit in the locations where:
- There are heat sources nearby.
- Unit is directly exposed to rain or sunlight.

 There is any obstacle which can prevent smooth air circulation from inlet and outlet side of the unit.
 Unit is directly exposed to oil mist and steam such as kitchen.

 Chemical substances like ammonia (organic fertilizer), calcium chloride (snow melting agent) and

Greening Substances like ammonia (organic tertilizer), calcium chloride (snow melting agent) and acid (sulfurous acid etc.), which can harm the unit, will generate or accumulate.
 Drain water can not be discharged properly.
 TV set or radio receiver is placed within 1m.
 Height above sea level is more than 1000m.
It can cause performance degradation, corrosion and damage of components, unit malfunction and fire.

Do not put anything on the outdoor unit.Object may fall causing property damage or personal injury

Do not touch any refrigerant pipe with your hands when the system is in operation. During operation the refrigerant pipes become extremely hot or extremely cold depending on the operating condition. Touching pipes can cause personal injury like burn (hot/cold). Install isolator or disconnect switch on the power source wiring in accordance with the local codes and regulations.

The isolator should be locked in OFF state in accordance with EN60204-1.

1. ACCESSORIES AND TOOLS Standard accessories (Supplied with indoor unit) (5) Wood screws (for remote control holder ø3.5 X 16mm) 1 1pc (1) Installation board 2pcs (6) Batteries [R03 (AAA, Micro) 1.5V] Wireless remote control Remote control holder 1pc (7) Air-cleaning filters (4) Tapping screws (for installation board ø4 X 25mm) 5pcs (8) Insulation (#486 50 X 100 t3)

	Locally procured parts
(a)	Sleeve (1pc)
(b)	Sealing plate (1pc)
(c)	Inclination plate (1pc)
(d)	Putty
(e)	Connecting cable
(f)	Drain hose (extension hose)
(g)	Piping cover (for insulation of connection piping)
(h)	Clamp and screw (for finishing work)
(i)	Electrical tape

Tools for	installation work
Plus headed driver	Pipe cutter
Knife	Hole core drill (65mm in diameter)
Saw	Wrench key (Hexagon) [4mm]
Tape measure	Flaring tool set*
Torque wrench	Gas leak detector*
	Pipe bender
Plier	Flare adjustment gauge
* Design	ned specifically for R32 or R410A

2. SELECTING INSTALLATION LOCATION

After getting customer's approval, select installation location according to following guidelines.

1. Indoor unit

- Where there is no obstruction to the airflow and where the cooled and heated air can be evenly distributed.

- evenly distributed.

 A solid place where the unit or the wall will not vibrate.

 A place where there will be enough space for servicing.

 (Where space mentioned on the right side can be secured.)

 Where it is easy to conduct wiring and piping work.

 A place where unit is not directly exposed to sunlight or street light.

 A place where it can be easily drained.

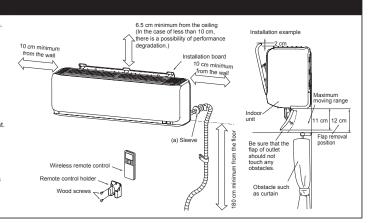
 A place separated at least 1m away from the television or the radio.

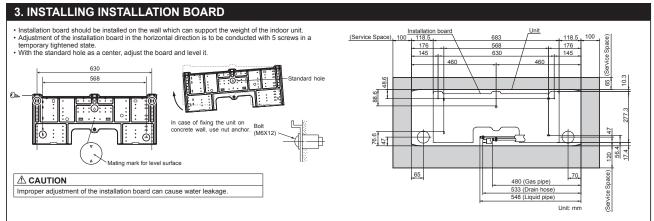
 (To prevent interference to images and sounds.)

- (10 prevent intererence to images and sounds.)
 A place where this unit is not affected by the high frequency equipment or electric equipment.
 Avoid installing this unit in place where there is much oil mist.
 A place where there is no electric equipment or household.
 Install the indoor unit on the wall where the height from the floor to the bottom of the unit is more than 180 cm.

2. Wireless remote control

- A place where the air-conditioner can receive the signal surely during operating the wireless remote control.
- A place where it is not affected by the TV, radio etc.
 Do not place where it is exposed to direct sunlight or near heat devices such as a stove.





4. DRILLING HOLE AND FIXTURE OF SLEEVE

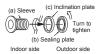
When drilling the wall that contains a metal lath, wire lath or metal plate, be sure to use sealing plate, sleeve and inclination plate (Locally procured parts).



(1) Drill a hole with hole



(2) Cut sleeve to adjust to wall thickness. In case of rear piping draw out, cut off the lower and the right side portions of the sleeve collar



(3) Fix sealing plate, sleeve and inclination plate.



(d) Putty (4) After piping work, seal the hole in the wal with putty.

⚠ WARNING

Completely seal the hole in the wall with putty. If not sealed properly, dust, insects, small animals, and highly humid air may enter the room from out-side, which could result in fire or other hazards.

⚠ CAUTION

Completely seal the hole in the wall with putty If not sealed properly, furniture and other fixtures may be damaged by water leakage or condensation.

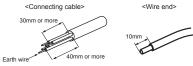
5. ELECTRICAL WIRING WORK

- Before installation, make sure that the power source complies with the air-conditioner's power specification Carry out electrical wiring work according to following guidelines.

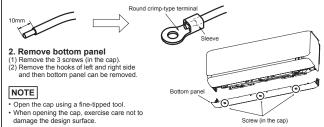
1. Preparing cable

- (1) Selecting cable
 Select the connecting cable in accordance with the specifications mentioned below.
 4-core* 1.5mm² conformed with 60245 IEC57
 * 1 Earth wire is included (Yellow/Green).
- (2) Arrange each wire length as shown below.

 Make sure that each wire is stripped 10mm from the end.



(3) Attach round crimp-type terminal to each wire as shown in the below.
Select the size of round crimp-type terminal after considering the specifications of terminal block and wire diameter.

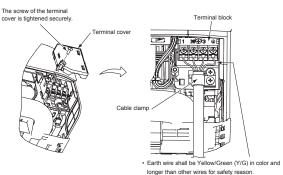


3. Connecting cable

- (2) Remove the cable clamp.
 (3) Connect the connecting wires to the terminal block.
 (4) Fix the connecting cable by cable clamp.
 (5) Fix the terminal cover.

NOTE

Take care not to confuse the terminal numbers for indoor and outdoor connections.

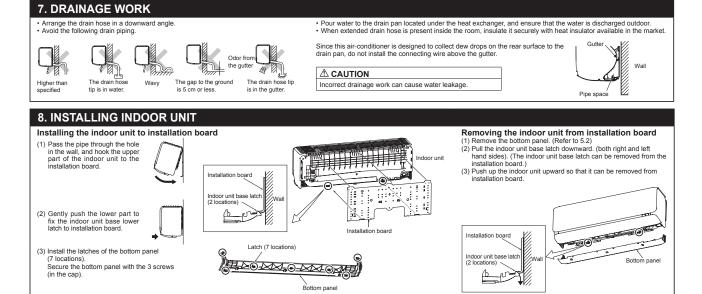


⚠ WARNING

Incorrect wiring connection can cause malfunction or fire.

6. FORMING PIPING AND DRAIN HOSE 1. Forming piping Piping is possible in the right, rear, downward, left, left rear or left downward direction Taping of the exterior Tape only the portion that goes through the wall. Always tape the wiring Forming of pipings • Hold the bottom of the NOTE piping and fix direction before stretching it Sufficient care must be taken not to damage the panels when connecting pipes. and shaping it. with the piping. 2. Drain change procedures Remove the screw and drain nose. Remove the drain cap by hand or pilers. Insert the drain cap which was removed at procedure (2) securely using a hexagonal wrench etc. Install the drain hose and screw securely. Left dov (1) (2) (3) Left hand side piping Right hand side piping Piping in the left rear direction Piping in the right rear direction **⚠** CAUTION

Piping in the right di



9. CONNECTING PIPING WORK

1. Preparation of connecting pipe

Piping in the left direction

1.1. Selecting connecting pipe
Select connecting pipe according to the following table

	Model SRK20/25/35	Model SRK50/60
Gas pipe	ø9.52	ø12.7
Liquid pipe	ø6.35	ø6.35

- Pipe wall thickness must be greater than or equal to 0.8 mm.
 Pipe material must be O-type (Phosphorus deoxidized seamless copper pipe ICS 23.040.15, ICS 77.150.30)

- (1) Cut the connecting pipe to the required length with pipe cutter.
 (2) Hold the pipe downward and remove the burrs. Make sure that no foreign material enters the pipe.
 (3) Cover the connecting pipe ends with the tape.

2. Piping work

2.1. Flaring pipe

2.1. r laring pipe

 Take out flare nuts from the service valves of indoor unit and engage them onto connecting pipes.
 Flare the pipes according to table and figure shown below.
 Flare dimensions for R32 are different from those for conventional refrigerant.
 Although it is recommended to use the flaring tools designed specifically for R32 or R410A, conventional flaring tools can also be used by adjusting the measurement of protrusion B with a flare adjustment gauge.

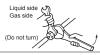




	Copper pipe	Rigid (clutch) type		
	outer diameter	R32 or R410A	Conventional	
	ø6.35			
24	ø9.52	0-0.5	1.0-1.5	
	ø12.7			

2.2 Connecting pipes
(1) Connect pipes on both liquid and gas sides.
(2) Tighten nuts to specified torque shown in the table below

Service valve size (mm)	Tightening torque (N·m)
ø6.35 (1/4")	14-18
ø9.52 (3/8")	34-42
ø12.7 (1/2")	49-61



⚠ CAUTION

Do not apply refrigerating machine oil to the flared surface. It can cause refrigerant leakage.
 Do not apply excess torque to the flared nuts. The flared nuts may crack resulting in refrigerant

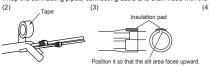
- Heating and condensation prevention
 Dress the connecting pipes (both liquid and gas pipes) with insulation to prevent it from heating and Use the heat insulating material which can withstand 120°C or higher temperature. Make sure that insu-
- Use the heat insulating material which can withstand 120°C or higher temperature. Make sure that insulation is wrapped tightly around the pipes and no gap is left between them.

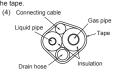
 (2) Wrap the refrigerant pipings of indoor unit with indoor unit heat insulation using tape.

 (3) Cover the flare-connected joints (indoor side) with the indoor unit heat insulation and wrap it with an insulation gad (standard accessory provided with indoor unit).

 (4) Wrap the connecting pipes, connecting cable and drain hose with the tape.

Incorrect installation of drain hose and cap can cause water leakage





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Pipe assembly

NOTE

Locations where relative humidity exceeds 70%, both liquid and gas pipes need to be dressed with 20mm or thicker heat insulation materials.

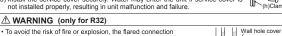
⚠ CAUTION

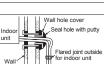
- Improper insulation can cause condensate(water) formation during cooling operation. Condensate can leak or drip causing damage to household property. Poor heat insulating capacity can cause pipe outer surface to reach high temperature during heating operation. It can cause cable deterioration and personal injury.

- (1) Make sure that the exterior portion of connecting pipes, connecting cable and drain hose is wrapped properly with tape. Shape the connecting pipes to match with the contours of the pipe assembly froute.

 (2) Fix the pipe assembly with the wall using clamps and screws. Pipe assembly should be anchored every 1.5m or less to isolate the vibration.

 (3) Install the service cover securely. Water may enter the unit if service cover is not installed properly, resulting in unit malfunction and failure.





- must/shall be installed outdoors.
- Reusable mechanical connectors and flared joints are not allowed indoors.

⚠ CAUTION

Make sure that the connecting pipes do not touch the components within the unit. If pipes touch the internal components, it may generate abnormal sounds and/or vibrations.

10. HOW TO OPEN, CLOSE, REMOVE AND INSTALL THE AIR INLET PANEL

1. Open
Pull the air inlet panel at both ends of lower part and release latches, then pull up the panel until

you feel resistance. (The panel stops at approx. 60° open position)

2. Close
Hold the panel at both ends of lower part, lower it downward slowly, then push it slightly until the latch works.

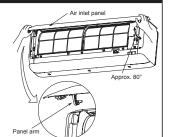
3. Removing
Open the panel by 80° (as shown in the right illustration) and then pull it forward.

4. Installing

Insert the panel arm into the slot on the front panel from the position shown in right illustration, hold the panel at both ends of lower part, lower it downward slowly, then push it slightly until the latch works.

NOTE

• When carrying out maintenance, handle the air inlet panel with care.



13. INSTALLING TWO AIR-CONDITIONERS IN THE SAME ROOM

In case two air-conditioners are installed in the same room, apply this setting so that one unit can be operated with only one wireless remote control.

Setting one wireless remote control (1) Slide and take out the cover and batt

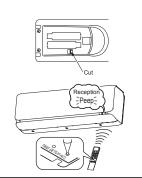
- (2) Cut the switching line next to the battery with wire cutters
- (3) Set the batteries and cover again.

Setting one indoor unit

- (1) Turn off the power source and turn it on after 1 minute.
- minute.
 (2) Send the signal by pressing the ACL switch on the wireless remote control that was set according to the procedure described on the above side.
 (3) Check that the reception buzzer sound "Peep" is emitted from the indoor unit. Since the signal is sent about 6 seconds after the ACL switch is pressed, point the wireless remote control to the indoor unit for a while.



If no reception buzzer is emitted, restart the setting from the beginning.

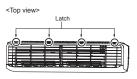


11. HOW TO REMOVE AND INSTALL THE SIDE AND FRONT PANEL

1. Side panel (R/L)

- 1.1. Removing
 (1) Remove the 2 screws
- (1) Remove the 2 screws.
 (2) Remove the 3 latches and then side panel can be removed.
 1.2. Installing
 (1) Cover the unit with the side panel and fix 3

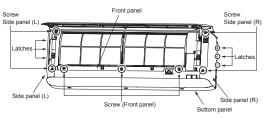
- (2) Secure the side panel with the 2 screws



2. Front panel

- 2. From panel
 2. 1. Removing
 (1) Remove the side panel (R/L), the air inlet panel, the air filters and the bottom panel.
 (2) Remove the 3 screws.
 (3) Remove the 4 upper latches and then front panel can be removed.

- 2.2. Installing(1) Cover the unit with the front panel and fix 4 upper latches.
- (2) Secure the front panel with the 3 screws.
 (3) Install the bottom panel, the side panel
 (R/L), the air inlet panel and the air filters.



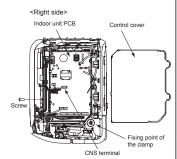
14. TERMINAL CONNECTION FOR AN INTERFACE

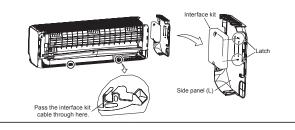
To install wired remote control, superlink etc., interface kit is needed.

- (1) Remove the air inlet panel, bottom panel and side panel (R).(2) Remove the control cover. (Remove the
- screw.)
 (3) There is a terminal (respectively marked with CNS) for the indoor control board. While connecting an interface, connect to the respective terminal securely with the connection harness supplied with an option "Interface kit SC-BIKN-E and SC-BIKN2-E" and fasten

the connection harness onto the indoor control box with the clamp and screw supplied with the kit.
(4) Hook to fix the interface kit to the 2

latches on side panel (L).
For more details, refer to the user's manual of "Interface kit SC-BIKN-E and SC-BIKN2-F





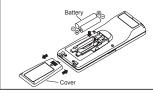
12. INSTALLING WIRELESS REMOTE CONTROL

Mount the batteries

- (1) Slide and take out the cover of backside.
 (2) Mount the batteries [R03 (AAA, Micro), ×2 pieces] in the body properly.
 (Fit he poles with the indication marks + & -)
 (3) Set the cover again.

NOTE

- Do not use new and old batteries together.
 In case the unit is not operated for a long time take out the batteries



Wood screws ø3.5 X 16

Installing remote control holder
(1) Select the place where the unit can receive

(2) Fix the holder to pillar or wall with wood

15. PUMP DOWN WORK

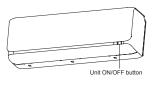
For the environmental protection, be sure to pump down when relocating or disposing of the unit. Pump down is the method of recovering refrigerant from the indoor unit to the outdoor unit before the connecting pipes are removed from the unit. When pump down is carried out, forced cooling operation is needed.

Forced cooling operation

- (1) Turn off the power source and turn it on again after 1 minute. The air inlet panel
- and flap open and close.

 (2) After the air inlet panel closes, press the ON/OFF button continuously for at least 5 seconds. Then operation will start.

For the detail of pump down, refer to the installation manual of outdoor unit.



16. INSTALLATION CHECK AND TEST RUN

After finishing the installation work, check the following points again before turning on the power. Conduct a test run and ensure that the unit operates properly. At the same time, explain to the customer how to use the unit and how to take care of the unit following the user's manual.

Before test run

ck following points

Defore test run, eneck following points.	
Power source voltage complies with the rated voltage of air-conditioner.	
Earth leakage breaker and circuit breaker are installed.	
Power cable and connecting cable are securely fixed to the terminal block.	
Both liquid and gas service valves are fully open.	
No gas leaks from the joints of the service valves.	
Indoor and outdoor side pipe joints have been insulated.	
Hole on the wall is completely sealed with putty.	
Drain hose and cap are installed properly.	
Screw of the terminal cover is tightened securely.	

Test run

Check following points during test run.

Indoor unit receives signal of wireless remote control.	
Air-conditioning operation is normal.	
There is no abnormal noise.	
Water drains out smoothly.	
Display of wireless remote control is normal.	

Explain the operating and maintenance methods to the user according to the user's manual.	
Keep this installation manual together with user's manual.	

During restart or change in operation mode, the unit will not start operating for approximately 3 minutes. This is to protect the unit and it is not malfunction.

RLD012A018 🛕

Model SRK63,71,80,100ZR R32/R410A REFRIGERANT USED

(b) Models SRK71, 100ZR-W

- This installation manual deals with an indoor unit installation only. For an outdoor unit installation, refer to page 211.
- This unit is designed for R32 or R410A. See a label on the outdoor unit to check refrigerant information

SAFETY PRECAUTIONS

- tion work in order to protect yourself.

 The precautionary items mentioned below are distinguished into two levels, AWARNING and ACAUTION indicates a potentially hazardous situation which, if not avoided, can result in personal injury or property damage.

 Both mention the important items to protect your health and safety. Therefore, strictly follow them by any means.

⚠ WARNING

- Be sure to use only for residential purpose.

 If this unit is installed in inferior environment such as machine shop, vehicle (like ship), warehouse, it can malfunction
- Installation must be carried out by the qualified installer completely in accordance with the installation manual

- dance with the installation manual.
 Installation by non qualified person or incorrect installation can cause serious troubles such as water leak, electric shock, fire and personal injury.

 Be sure to wear protective goggles and gloves while performing installation work. Improper safety measures can result in personal injury.

 Use the original accessories and the specified components for the installation. Using parts other than those prescribed may cause water leak, electric shock, fire and personal injury.

 Do not install the unit near the location where leakage of flammable gases can occur. If leaked gases accumulate around the unit, it can cause fire resulting in property damage and personal injury.
- When installing the unit in small rooms, make sure that refrigerant density does not exceed the limit (Reference: ISO5149) in the event of leakage.

 If refrigerant density exceeds the limit, consult the dealer and install the ventilation system.
- If retrigerant density exceeds the limit, consult the dealer and install the ventilation system. Otherwise lack of oxygen can occur resulting in serious accident.

 Install the unit in a location where unit will remain stable, horizontal and free of any vibration transmission.

 Unsuitable installation location can cause the unit to fall resulting in material damage and personal injury.

 Do not run the unit with removed panels or protections.

 Touching rotating equipments, hot surfaces or high voltage parts can cause personal injury due to entrapment, burn or electric shock.

 This unit is designed specifically for R32 or R410A.

 Lising any other refrigerant can cause unit failure and personal injury.

- Using any other refrigerant can cause unit failure and personal injury.

 Do not vent R32 or R410A into atmosphere.
 R32 is a fluorinated greenhouse gas with a Global Warming Potential(GWP)=675.
 R410A is a fluorinated greenhouse gas with a Global Warming Potential(GWP)=2088.

 Make sure that no air enters the refrigerant circuit when the unit is installed
- Make sure that no air enters the retrigerant circuit when the unit is installed and removed.

 If air enters the refrigerant circuit, the pressure in the refrigerant circuit will become too high, which can cause burst and personal injury.

 Be sure to use the prescribed pipes, flare nuts and tools for R32 or R410A.

 Using existing parts (for R22 or R407C) can cause refrigerant circuit burst resulting in unit failure and personal injury.

 Be sure to connect both liquid and gas connecting pipes properly before operating the compressor.

- Be sure to connect both induit and gas connecting pipes properly erating the compressor.

 Do not open the liquid and gas operation valves before completing piping work, and evacuation.

 If the compressor is operated when connecting pipes are not connected and operation valves are open, air can be sucked into the refrigerant circuit which can cause anomalous high pressure resultopen, all can be sourced into the fellingorist contact which can cause anomalism for personal injury.

 Be sure to tighten the flare nuts to specified torque using the torque wrench Tightening flare nuts with excess torque can cause burst and refrigerant leakage after a long period.

- During pump down work, be sure to stop the compressor before closing operation valves and removing connecting pipes. If the connecting pipes are removed when the compressor is in operation and operation valves are open, air can be sucked into the refrigerant circuit which can cause anomalous high pressure resulting in burst or personal injury.

- ing in burst or personal injury.

 In the event of refrigerant leakage during installation, be sure to ventilate the working area properly.

 If the refrigerant comes into contact with naked flames, poisonous gases will be produced.

 Electrical work must be carried out by the qualified electrician, strictly in accordance with national or regional electricity regulations.

 Incorrect installation can cause electric shock, fire or personal injury.

 Make sure that earth leakage breaker and circuit breaker of appropriate capacities are installed.

 Circuit breaker should be able to disconnect all poles under over current. Absence of appropriate breakers can cause electric shock, personal injury or property damage.

 Be sure to switch off the power source in the event of installation, maintenance or service.

 If the power source is not switched off, there is a risk of electric shock, unit failure or personal injury.

 Be sure to tighten the cables securely in terminal block and relieve the ca-

- Be sure to tighten the cables securely in terminal block and relieve the ca-bles properly to prevent overloading the terminal blocks.

 Loose connections or cable mountings can cause anomalous heat production or fire.
- Do not process, splice or modify the power cable, or share the socket with other power plugs.

 Improper power cable or power plug can cause fire or electric shock due to poor connection, insuf-
- ficient insulation or over-c
- Do not perform any change in protective device or its setup condition yourself. Changing protective device specifications can cause electric shock, fire or burst.

 Be sure to clamp the cables properly so that they do not touch any internal
- component of the unit.
 If cables touch any internal component, it can cause overheating and fire.
 Be sure to install service cover properly.
 Improper installation can cause electric shock or fre due to intrusion of dust or water

- Be sure to use the prescribed power and connecting cables for electrical work. Using improper cables can cause electric leak or fire. This appliance must be connected to main power source by means of a circuit breaker or switch with a contact separation of at least 3mm.
- Improper electrical work can cause unit failure or personal injury
- When plugging this unit, a plug conforming to the standard IEC60884-1 must be

 - Using improper plug can cause electric shock or fre.

 Be sure to connect the power source cable with power source properly.

 Improper connection can cause intrusion of dust or water resulting in electric shock or fire.

⚠ CAUTION

- Take care when carrying the unit by hand.
 If the unit weight is more than 20kg, it must be carried by two or more persons.
 Do not carry the unit by the plastic straps. Always use the carry handle.
 Do not install the outdoor unit in a location where insects and small animals
- can inhabit.
 Insects and small animals can enter the electrical parts and cause damage resulting in fire or per-
- Insertion and single relative the electron pairs and cause delingle residing in the or personal injury. Instruct the user to keep the surroundings clean.

 If the outdoor unit is installed at height, make sure that there is enough space for installation, maintenance and service.

 Insufficient space can result in personal injury due to falling from the height.

 Do not install the unit near the location where neighbours are bothered by noise or air generating from the unit.

- The continuation of the co
- waves and/or high-harmonic waves.

 Equipment such as inverters, standby generators, medical high frequency equipments and tele munication equipments can affect the system, and cause malfunctions and breakdowns.
- The system can also affect medical equipment and telecommunication equipment, and obstruct its function or cause jamming.

- Do not install the unit in the locations where:

 - Do not install the unit in the locations where:

 There are heat sources nearby.

 Unit is directly exposed to rain or sunlight.

 There is any obstacle which can prevent smooth air circulation from inlet and outlet side of the unit.

 Unit is directly exposed to oil mist and steam such as kitchen.

 Chemical substances like ammonia (organic fertilizer), calcium chloride (snow melting agent) and acid (sulfurous acid etc.), which can harm the unit, will generate or accumulate.

 Drain water can not be discharged properly.

 Ty set or radio preciver is placed within 1 m.

 - TV set or radio receiver is placed within 1m

 - Height above sea level is more than 1000m.
 It can cause performance degradation, corrosion and damage of components, unit malfunction and fire.
 - Dispose of all packing materials properly.

 Packing materials contain nails and wood which can cause personal injury.

 Keep the polybag away from children to avoid the risk of suffocation.

 - **Do not put anything on the outdoor unit.**Object may fall causing property damage or personal injury.

 - Object may fall causing property damage or personal injury.

 Do not touch the aluminum fin of the outdoor unit.

 Aluminium fin temperature is high during heating operation. Touching fin can cause burn.

 Do not touch any refrigerant pipe with your hands when the system is in operation. During operation the refrigerant pipes become extremely hot or extremely cold depending on the operating condition. Touching pipes can cause personal injury like burn (hot/cold).

 Install isolator or disconnect switch on the power source wiring in accordance with the local codes and regulations.

 The isolator should be locked in OFF state in accordance with EN60204-1.

1. ACCESSORIES AND TOOLS Locally procured parts Standard accessories (supplied with indoor unit) (a) Sleeve (1pc) Plus headed drive ole core drill (65mm in diameter) 689 1pc (1) Installation board (6) Batteries (R03 (AAA, Micro) 1.5VI 2pcs Sealing plate (1pc) Wrench key (Hexagon) [4mm] Knife (c) Inclination plate (1pc) Saw Flaring tool set 1pc (7) Air-cleaning filters 2pcs) Putty (2) Remote control Tape measure (e) Connecting cable Torque wrench 14.0-82.0N·m (1.4-8.2kgf·m) Pipe bender (3) Remote control holder 1pc (8) Filter holders 2pc (f) Drain hose (extension hose) Gauge for projection adjustment (Used when flare is made by us ing conventional flare tool) Plier Piping cover (for insulation of connection piping) Tapping screws (for installation board ø4 X 25mm) (9) Insulation (#486 50 X 100 t3) Pipe cutter 0 10pcs Clamp and screw (for finishing work) Designed specifically for R32 or R410A (5) Wood screws (for remote control holder ø3.5 X 16mm) (i) Electrical tape

2. SELECTING INSTALLATION LOCATION

After getting customer's approval, select installation location according to following guidelines.

- Indoor unit
 Where there is no obstruction to the airflow and where the cooled and heated air can be evenly distributed.
 A colid place where the unit or the unit
- distributed.

 A solid place where the unit or the wall will not vibrate.

 A place where there will be enough space for servicing. (Where space mentioned on the right side can be secured.)

 Where it is easy to conduct wiring and piping work.

 A place where unit is not directly exposed to sunlight or street light.

 A place where it can be easily drained.

 A place separated at least 1m away from the television or the radio. (To prevent interference to images and sounds)

- ages and sounds.)

 A place where this unit is not affected by the high frequency equipment or electric equipment.

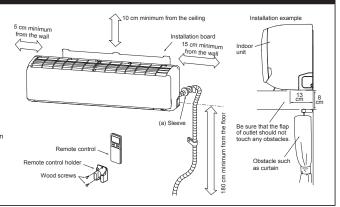
 Avoid installing this unit in place where there is much oil mist.

 A place where there is no electric equipment or household.

 Install the indoor unit on the wall where the height from the floor to the bottom of the unit is more than

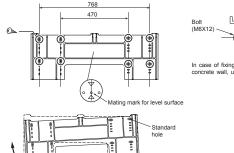
2. Remote control

- A place where the air-conditioner can receive the signal surely during operating the remote control.
 A place where it is not affected by the TV, radio etc.
 Do not place where it is exposed to direct sunlight or near heat devices such as a stove.



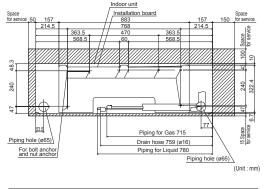
3. INSTALLING INSTALLATION BOARD

- Installation board should be installed on the wall which can support the weight of the indoor unit.
 Adjustment of the installation board in the horizontal direction is to be conducted with 8 screws in a
- temporary tightened state.
 With the standard hole as a center, adjust the board and level it.





In case of fixing the unit on concrete wall, use nut anchor



⚠ CAUTION

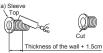
Improper adjustment of the installation board can cause water leakage



When drilling the wall that contains a metal lath, wire lath or metal plate, be sure to use sealing plate, sleeve and inclination plate (Locally procured parts)



(1) Drill a hole with hole core drill.



(2) Cut sleeve to adjust to wall thickness. In case of rear piping draw out, cut off the lower and the right side portions of the sleeve collar.



Indoor side Outdoor side (3) Fix sealing plate, sleeve and inclination plate





(4) After piping work seal the hole in the wall with putty.

⚠ WARNING

Completely seal the hole in the wall with putty. If not sealed properly, dust, insects, small animals, and highly humid air may enter the room from outside, which could result in fire or other hazards.

⚠ CAUTION

Completely seal the hole in the wall with putty. If not sealed properly, furniture and other fixtures may be damaged by water leakage or condensation.

5. ELECTRICAL WIRING WORK

- Before installation, make sure that the power source complies with the air-conditioner's power speci-
- ncarron.

 Carry out electrical wiring work according to following guidelines.

1. Preparing cable

(1) Selecting cable

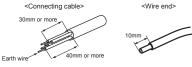
- Select the connecting cable in accordance with the specifications mentioned below.

 4-core* 1.5mm² conformed with 60245 IEC57

 * 1 Earth wire is included (Yellow/Green).

(2) Arrange each wire length as shown below.

Make sure that each wire is stripped 10mm from the end.



(3) Attach round crimp-type terminal to each wire as shown in the below. Select the size of round crimp-type terminal after considering the specifications of terminal block and wire diameter.



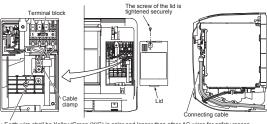
2. Connecting cable

- 2. Connecting cable
 (1) Open the air inlet panel.
 (2) Remove the lid.
 (3) Remove the cable clamp.
 (4) Connect the connecting wires to the terminal block.
 (5) Fix the connecting cable by cable clamp.
 (6) Fix the lid.

- (7) Close the air inlet panel

NOTE

Take care not to confuse the terminal numbers for indoor and outdoor connections.



· Earth wire shall be Yellow/Green (Y/G) in color and longer than other AC wires for safety reason

⚠ WARNING

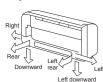
Incorrect wiring connection can cause malfunction or fire

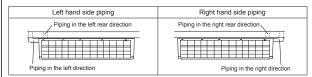
6. FORMING PIPING AND DRAIN HOSE

1. Forming pipingPiping is possible in the right, rear, downward, left, left rear or left downward direction

NOTE

Sufficient care must be taken not to damage the panels when connecting pipes.





Forming of pipings.

Hold the bottom of the piping and fix direction before stretching it and shaping it.

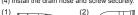


- Taping of the exterior
 Tape only the portion that goes through the wall.
 Always tape the wiring with the piping.

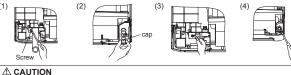


2. Drain change procedures

- Remove the screw and drain hose.
 Remove the drain cap by hand or pliers.
- (3) Insert the drain cap which was removed a (4) Install the drain hose and screw securely. Insert the drain cap which was removed at procedure (2) securely using a hexagonal wrench etc.







7. DRAINAGE WORK

Arrange the drain hose in a downward angle. Avoid the following drain piping.









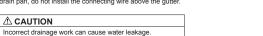
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The drain ho

Pour water to the drain pan located under the heat exchanger, and ensure that the water is discharged outdoor.
 When extended drain hose is present inside the room, insulate it securely with heat insulator available in the market.

Incorrect installation of drain hose and cap can cause water leakage

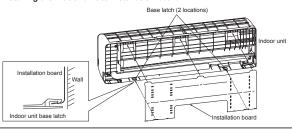
Since this air-conditioner is designed to collect dew drops on the rear surface to the drain pan, do not install the connecting wire above the gutter.





8. INSTALLING INDOOR UNIT

Installing the indoor unit to installation board



(1) Pass the pipe through the hole in the wall, and hook the upper part of the indoor unit to the installation board.

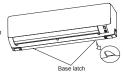


(2) Gently push the lower part to fix the indoor unit base lower latch to installation board.



Removing the indoor unit from installation board

- (1) Push up at the marked portion of the indoor unit base latch, and slightly pull it toward you (both right and left hand sides). (The indoor unit base latch can be removed from the installation
- (2) Push up the indoor unit upward so that it can be removed from



9. CONNECTING PIPING WORK

1. Preparation of connecting pipe

1.1. Selecting connecting pipe
Select connecting pipe according to the following table.

coloct commonly pipe according to the following table.			
Model SRK63 Model SRK71/8		Model SRK71/80	Model SRK100
Gas pipe ø12.7		ø15.88	ø15.88
Liquid pipe	ø6.35	ø6.35	ø9.52

- Pipe wall thickness must be greater than or equal to 0.8 mm (ø15.88:1.0mm).
- Pipe material must be O-type (Phosphorus deoxidized seamless copper pipe ICS 23.040.15, ICS 77.150.30).

1.2. Cutting connecting pipe

- Cut the connecting pipe to the required length with pipe cutter.
 Hold the pipe downward and remove the burrs. Make sure that no foreign material enters the pipe.
 Cover the connecting pipe ends with the tape.

2. Piping work

2.1. Flaring pipe

2.1. Haring pipe (1) Take out flare nuts from the operation valves of indoor unit and engage them onto connecting pipes. (2) Flare the pipes according to table and figure shown below. Flare dimensions for R32 are different from those for conventional refrigerant. Although it is recommended to use the fairing tools designed specifically for R32 or R410A, conventional flaring tools can also be used by adjusting the dimension B with a flare adjustment gauge.

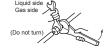
	Copper pipe outer diameter	А	
_ I i II	ø6.35	9.1	
	ø9.52	13.2	
	ø12.7	16.6	
1 (11	ø15.88	19.7	



	Copper pipe	B [Rigid (cl	utch) type]	
	outer diameter	R32 or R410A	Conventional	
8	ø6.35			
9	ø9.52	0-0.5	1.0-1.5	
	ø12.7	0-0.5	1.0-1.5	
	ø15.88			

2.2 Connecting pipes
(1) Connect pipes on both liquid and gas sides.
(2) Tighten nuts to specified torque shown in the table below

Operation valve size (mm) Tightening torque (N·m) ø6.35 (1/4") 14-18 34-42 ø9.52 (3/8") ø12 7 (1/2' 49-6 ø15.88 (5/8")



⚠ CAUTION

Do not apply refrigerating machine oil to the flared surface. It can cause refrigerant leakage.
 Do not apply excess torque to the flared nuts. The flared nuts may crack resulting in refrigerant

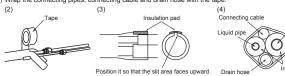
leakage.

3. Heating and condensation prevention

- (1) Dress the connecting pipes (both liquid and gas pipes) with insulation to prevent it from heating and
 - Use the heat insulating material which can withstand 120°C or higher temperature. Make sure that insu-lation is wrapped tightly around the pipes and no gap is left between them.

 Wrap the refrigerant pipings of indoor unit with indoor unit heat insulation using tape.
- (3) Cover the flare-connected joints (indoor side) with the indoor unit heat insulation and wrap it with an in-
- sulation pad (standard accessory provided with indoor unit).

 (4) Wrap the connecting pipes, connecting cable and drain hose with the tape



NOTE

⚠ CAUTION

4. Finishing work

 Improper insulation can cause condensate(water) formation during cooling operation. Improper insulation can leak or often sate(water) infiniation until gooding operation.

 Condensate can leak or drip causing damage to household property.

 Poor heat insulating capacity can cause pipe outer surface to reach high temperature during heating operation. It can cause cable deterioration and personal injury.

4. Final Initial Work
4. Final Initial Work
(1) Make sure that the exterior portion of connecting pipes, connecting cable and drain hose is wrapped properly with tape. Shape the connecting pipes to match with the contours of the pipe assembly route.
(2) Fix the pipe assembly with the wall using clamps and screws. Pipe assembly should be anchored every 1.5m or less to isolate the vibration.
(3) Install the service cover securely. Water may enter the unit if service cover is not installed properly, resulting in unit malfunction and failure.



Gas pipe

⚠ WARNING (only for R32)

 To avoid the risk of fire or explosion, the flared connection must/shall be installed outdoors.

Reusable mechanical connectors and flared joints are not allowed indoors

<u>L</u> Seal hole with putty Flared joint outside for indoor unit

Make sure that the connecting pipes do not touch the components within the unit. If pipes touch the internal components, it may generate abnormal sounds and/or vibrations.

10. HOW TO OPEN, CLOSE, REMOVE AND INSTALL THE AIR INLET PANEL

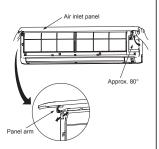
Pull the air inlet panel at both ends of lower part and release latches, then pull up the panel until you feel resistance. (The panel stops at approx. 60° open position)

2. Close

Hold the panel at both ends of lower part, lower it downward slowly, then push it slightly until the latch works.

3. Removing
Open the panel by 80° (as shown in the right illustration) and then pull it forward.

4. Installing
Seert the panel arm into the slot on the front 4. Installing Insert the panel arm into the slot on the front panel from the position shown in right illustra-tion, hold the panel at both ends of lower part, lower it downward slowly, then push it slightly until the latch works.



Installing remote control holder

 Select the place where the unit can receive signals. (2) Fix the holder to pillar or wall with wood

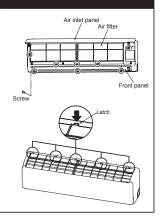
11. HOW TO REMOVE AND INSTALL FRONT PANEL

1. Removing

- (1) Remove the air inlet panel and the air filters.
 (2) Remove the 8 screws.
 (3) Remove the 5 upper latches and then front panel can be removed.

- panel can be removed.

 2. Installing
 (1) Cover the unit with the front panel and fix 5 upper latches.
 (2) Secure the front panel with the 8 screws.
 (3) Install the air inlet panel and the air filters.



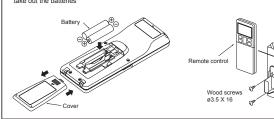
12. INSTALLING REMOTE CONTROL

Mount the batteries

- (1) Slide and take out the cover of backside.
 (2) Mount the batteries [R03 (AAA, Micro), ×2 pieces] in the body properly.
 (Fit he poles with the indication marks + & -)
- (3) Set the cover again.

NOTE

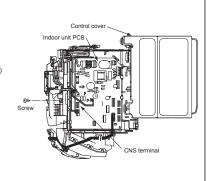
- Do not use new and old batteries together.
 In case the unit is not operated for a long time, take out the batteries



13. TERMINAL CONNECTION FOR AN INTERFACE

- (1) Remove the air inlet panel and
- front panel.
 (2) Remove the control cover.
 (Remove the screw.)
 (3) There is a terminal
 (respectively marked with CNS)
 for the indeper extent hourd. for the indoor control board. While connecting an interface, connect to the respective terminal securely with the connection harness supplied with an optional "Interface connection kit SC-BIKN-E and SC-BIKN2-E" and fasten the connection harness onto the indoor control box with the clamp and screw supplied with

For more details, refer to the user's manual of "Interface connection kit SC-BIKN-E and SC-BIKN2-E".



14. INSTALLING TWO AIR-CONDITIONERS IN THE SAME ROOM

In case two air-conditioners are installed in the same room, apply this setting so that one unit can be operated with only one remote control.

- Setting one remote control
 (1) Slide and take out the cover and batteries.
 (2) Cut the switching line next to the battery
- with wire cutters.
 (3) Set the batteries and cover again.



- Setting one indoor unit

 (1) Turn off the power source and turn it on after 1 minute.

 (2) Send the signal by pressing the ACL switch on the remote control that was set according to the procedure described on the left side.

 (3) Check that the reception buzzer sound "peep" is emitted from the indoor unit. Since the signal is sent about 6 seconds after the ACL switch is pressed, point the remote control to the indoor unit for a while.

If no reception buzzer is emitted, restart the setting from the beginning.





15. PUMP DOWN WORK

For the environmental protection, be sure to pump down when relocating or disposing of the unit. Pump down is the method of recovering refrigerant from the indoor unit to the outdoor unit before the connecting pipes are removed from the unit. When pump down is carried out, forced cooling operation is needed.

Forced cooling operation

- (1) Turn off the power source and turn it on again after 1 miniute.
 (2) Press the ON/OFF button continuously for at
- least 5 seconds. Then operation will start

For the detail of pump down, refer to the installation manual of outdoor unit.



16. INSTALLATION CHECK AND TEST RUN

After finishing the installation work, check the following points again before turning on the power. Conduct a test run and ensure that the unit operates properly. At the same time, explain to the customer how to use the unit and how to take care of the unit following the user's manual.

Before test run

Before test run, check following points.

Power source voltage complies with the rated voltage of air-conditioner.	
Earth leakage breaker and circuit breaker are installed.	
Power cable and connecting cable are securely fixed to the terminal block.	
Both liquid and gas operation valves are fully open.	
No gas leaks from the joints of the operation valves.	
Indoor and outdoor side pipe joints have been insulated.	
Hole on the wall is completely sealed with putty.	
Drain hose and cap are installed properly.	
Screw of the lid is tightened securely.	

Test run
Check following points during test run.

Indoor unit receives signal of remote control.	
Air-conditioning operation is normal.	
There is no abnormal noise.	
Water drains out smoothly.	
Display of remote control is normal.	

Aitei test iuli		
Explain the operating and maintenance methods to the user according to the user's manual.		
Keep this installation manual together with user's manual		

NOTE

During restart or change in operation mode, the unit will not start operating for approximately 3 minutes. This is to protect the unit and it is not malfunction.

(7) Effective range of cool/hot wind (Reference)

(a) FDT series

Guideline for ceiling height

For Chard Cotting	Model			
Fan Speed Setting	FDT50VH, 60VH	FDT71VH	FDT100VH	FDT125VH, 140VH
Hi	2.7m	3.0m	3.2m	3.6m
P-Hi	3.5m	3.8m	4.3m	4.5m

Notes (1) If the ceiling height is over 3m, please consider to add circulators.

This table shows reference values in case of four outlet.

If you shut some outlets, they are different.

Fan speed setting can be changed by using a wired remote control.

(b) FDE series

Model	Effective range
FDE50VH	7.5m
FDE60VH, 71VH	8.0m
FDE100VH, 125VH, 140VH	9.0m

[Conditions] 1. Height of unit: 2.4 - 3.0 (m) above floor level

2. Fan speed: Hi

3. Location: Free space without obstacles

4. The effective range means the horizontal distance for wind to reach the floor.

5. Wind speed at the effective range: 0.5 m/s

1.10.2 Electric wiring work installation

PSC012D117 A

Electrical wiring work must be performed by an electrician qualified by a local power provider according to the electrical installation technical standards and interior wiring regulations applicable to the installation site.

- Read the "SAFETY PRECAUTIONS" carefully first of all and then strictly follow it during the installation work in order to protect yourself.
- The precautionary items mentioned below are distinguished into two levels, AWARNING and ACAUTION .

AWARNING: Wrong installation would cause serious consequences such as injuries or death. ACAUTION: Wrong installation might cause serious consequences depending on circumstances. Both mentions the important items to protect your health and safety so strictly follow them by any means.

- The meanings of "Marks" used here are as shown on the right: Never do it under any circumstances. Always do it according to the instruction.
- Accord with following items. Otherwise, there will be the risks of electric shock and fire caused by overheating or short-circuit.

∆WARNING

- Be sure to have the electric wiring work done by qualified electrical installer, and use exclusive circuit.
- Power source with insufficient capacity and improper work can cause electric shock and fire
- Use specified wire for electrical wiring, fasten the wiring to the terminal securely, and hold the cable securely in order not to apply unexpected stress on the terminal. Loose connections or hold could result in abnormal heat generation or fire.
- ●Arrange the electrical wires in the control box properly to prevent them from rising. Fit the lid of the services panel property. Improper fitting may cause abnormal heat and fire.
- Ouse the genuine option parts. And installation should be performed by a specialist.
- 0 If you install the unit by yourself, it could cause water leakage, electric shock and fire. Do not repair by yourself. And consult with the dealer about repair.
- Improper repair may cause water leakage, electric shock or fire.
- Consult the dealer or a specialist about removal of the air-conditioner. Improper installation may cause water leakage, electric shock or fire.
- ●Turn off the power source during servicing or inspection work. If the power is supplied during servicing or inspection work, it could cause electric shock and injury by the operating fan.
- Shut off the power before electrical wiring work. It could cause electric shock, unit failure and improper running.

Perform earth wiring surely.

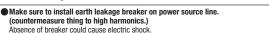
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4 Do not connect the earth wiring to the gas pipe, water pipe, lightning rod and telephone earth wiring. Improper earth could cause unit failure and electric shock due to a short-circuit.

Earth leakage breaker must be installed

If the earth leakage breaker is not installed, it can cause electric shocks.



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 Use the circuit breaker of correct capacity. Circuit breaker should be the one that disconnect all poles under over current.
Using the incorrect one could cause the system failure and fire

Do not use any materials other than a fuse of correct capacity where a fuse should be used.

Connecting the circuit by wire or copper wire could cause unit failure and fire

• Use power source line of correct capacity.

Using incorrect capacity one could cause electric leak, abnormal heat generation and fire.

Do not mingle solid cord and stranded cord on power source and signal side In addition, do not mingle difference capacity solid or stranded cord

in audition, up not milligle difference capacity solid or stranded cord.

Inappropriate cord setting could cause loosing screw on terminal block, bad electrical contact smoke and fire. contact, smoke and fire.

● Do not turn off the power source immediately after stopping the operation.

Be sure to wait for more than 5 minutes. Otherwise it could cause water leakage or

Do not control the operation with the circuit breaker. It could cause fire or water leakage. In addition, the fan may start operation unexpectedly and it may cause injury.

Control mode switching The control content of indoor units can be switched in following way. (is the default setting) Control Content Indoor unit address (0-Fh) Master/Slave Switching (plural /Slave unit Setting) SW5-2 SW6-1~4 Model capacity setting ON Operation check. Drain motor test run

Normal operation

1 Electrical wiring connection

- Electrical wiring work must be performed by an electlician an qualified by a local power provider. These wiring specifications are determined on the assumption that the following instructions are observed:
- instructions are observed:

 "Do not use orost other than copper ones.

 Do not use any source line lighter than one specified in parentheses for each type below.

 -traided cord (code designation 60245 IEC 51), if allowed in the relevant part 2;

 -ordinary though rubber sheathed cord (code designation 60245 IEC 53);

 -lat twin tinsel cord (code designation 60227 IEC 41);

 -ordinary polying (chindre) sheathed cord (code designation 60227 IEC 53);

 2) Connect the power source to the outdoor unit.

 3) Pay extra attention so as not to confuse signal line and power source line connection, become at the confuse signal than the confuse signal line and power source line connection, become at the confuse signal line and power source line connection, become at the confuse signal line and power source line connection, because the confuse signal line and power source line connection, because the confuse signal line and power source line connection, because the confuse signal line and power source line connection, because the confuse signal line and power source line connection, because the confuse signal line and power source line connection, because the confuse signal line and power source line connection, because the confuse signal line and power source line connection, because the confuse signal line and power source line connection, because the confuse signal line and power source line connection, because the confuse signal line and power source line connection, because the confuse signal line and power source line connection and line signal line and line signal line
- burnal the boards at once.

 Connect ground wires before connecting wires between the indoor and outdoor units and between indoor units. The ground wires need to be longer than the wires between the indoor and outdoor units, and protected from undue stress.

 Do not turn on the power source before completing the work. Round crimp terminal

 The ground wires must be connected by the Class D grounding connection.

- Use the round crimp terminals for connections to the terminal block.
 Use dedicated branch circuits, avoiding combination with other devices. Otherwise, it could trip the power source breaker, resulting in secondary accidents.

 Install the overcurrent and earth leakage breakers (sensitivity current: 30 mA) specified to
- respective models.
- Do not connect indoor and outdoor signal cables to extension cables on the way. If the joint is wetted with intruding water, it could cause a ground insulation failure or poor connection, resulting in communication errors. (If it is inevitable to connect cables on the way, make sure to prevent the water intrusion completely.)
- When running wires (wires for power source, remote controller, connecting between indoor and outdoor units, or other) behind the ceiling, protect them using copper or other pipes
- arrio outdoor units, or other; or entitle tree-terming, protect treint using copper or other pipes against assault by rat, or other.

 It is up to 3.5 mm² the size of power supply cables connected to indoor units. When using cables of 5.5 mm² or larger, provide a dedicated pull box for branching connection to indoor units.

 If signal and power source cables are connected mistakenly, it could burn down all PCBs.

 It signal power source cables are connected mistakenly, it could burn down all PCBs.

 It is the one power source of 20/24/03/04/15 to connected mistakenly to A-5 signal cable, its protected at initial ocasion only.

 If the remote control fails to detect the unit No. (address) at 15 minutes after turning the power on, check and repair all signal cables for misconnection.
- 2 if the refinded counts in all outside the rest of the refined counts in all outsides for misconnection.
 3. Cut the jumper wire J105L1 of burnt PCB, and reconnect connectors CnK (yellow) and CnK1 (white) to CnK2 (black).
 4. If any anomaly is found on wires between the A-B terminal block and the PCB, replace them.

 At the outside of indoor and outdoor units, take care to avoid direct contacts between remote control and power source cables.
- In no event connect the power source of 220/240/380/415 V to the remote control terminal block. It could cause failures.
- © Connections of Wiring between units, ground wire and remote control cable

 ① When connecting wires between units, ground wire or remote control wire, connect them according to the number of terminals on the power source terminal block or signal terminal block in the control box. Connect the ground wire to the ground terminal
- on the power source terminal olock or signal terminal olock in the control ox. Connect the ground were to the ground terminal on the power source terminal block.

 2 Make sure to install an earth leakage breaker for the power source. Select a breaker for inverter circuit.

 3 When the earth leakage breaker is exclusive for the earth leakage protection, it is necessary to connect also an isolating switch (Switch + Class B fuse) or wiring circuit breaker in series to the earth leakage breaker.

 4 Install the isolating switch close to the unit.

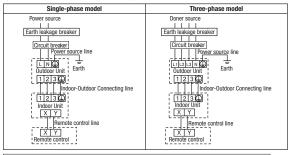
 Connect wires securing by tightening screws firmly. Confirm also no connector or wire (from terminal) in disconnected it, it sho canter be over
- terminal) is disconnected in the control box.
- When installing an auxiliary electric heater, consult the electric heater manual or technical data.

Cable connection for single unit installation

①As for connecting method of power source, select from following connecting patterns. In principle, do not directly connect power souce line to inside unit.

※ As for exceptional connecting method of power source, discuss with the power provider of the country with referring to technical documents, and follow its instruction.

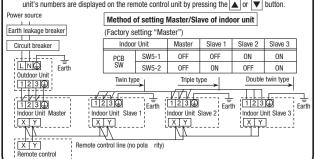
2 For cable size and circuit breaker selection, refer to the outdoor unit installation manual.



Cable connection for a V multi configuration installation

- ①Connect the same pairs number of terminal block "①, ②, and ③"and " \bigotimes and \bigotimes " between master and slave indoor units.

 ②Do the same address setting of all inside units belong to same refrigerant system by rotary



② Remote control, wiring and functions

- Do not install it on the following places
- ①Places exposed to direct sunlight
- 2 Places near heat devices
- 3 High humidity places
- 4)Hot surface or cold surface enough to generate condensation
- ⑤Places exposed to oil mist or steam directly.
- 6 Ineven surface

Installation and wiring of remote control

1 Install remote control referring to the attached installation manual.

②Wiring of remote control should use 0.3mm² ×2 core wires or cables.

The insulation thickness is 1mm or more. (on-site configuration)

3 Maximum prolongation of remote control wiring is 600 m.

If the prolongation is over 100m, change to the size below.

But, wiring in the remote control case should be under 0.5mm². Change the wire size outside of the case according to wire connecting. Waterproof treatment is necessary at the wire connecting section. Be careful about contact failure.

100 - 200m	$0.5 \text{mm}^2 \times 2 \text{ cores}$
Under 300m	0.75mm ² × 2 cores
Under 400m	1.25mm ² × 2 cores
Under 600m	2.0mm ² × 2 cores

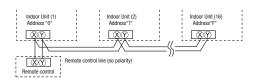
- 4 Avoid using multi-core cables to prevent malfunction.
- ⑤Keep remote control line away from earth (frame or any metal of building).
- ⑥Make sure to connect remote control line to the remote control and terminal block of indoor unit. (No polarity)

Control plural indoor units by a single remote control

①A remote control can control plural indoor units (Up to 16).

In above setting, all plural indoor units will operate under same mode and temperature setting. ②Connect all indoor units with 2 core remote control line.

③Set unique remote control communication address from "0" to "F" to each inside unit by the rotary switch SW2 on the indoor unit's PCB.



Master/ slave setting when more than one remote control unit are used

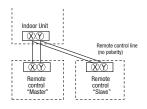
A maximum of two remote control units can be connected to one indoor unit (or one group of indoor units.)

The air-conditioner operation follows the last operation of the remote control regardless of the master/slave setting of it.

Acceptable combination is "two (2) wired remote controls", "one (1) wired remote control and one (1) wireless kit" or "two (2) wireless kits".

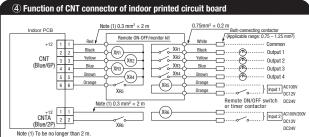
Set one to "Master" and the other to "Slave".

Note:The setting "Remote control unit sensor enabled" is only selectable with the master remote control unit in the position where you want to check room temperature.



No.	Item	Operation from the eco touch remote control (RC-EX series)	Operation from the standard remote control (RC-E series)
1	Check the number of units connected in the multi remote control system.	[Menu] ⇒ [Service setting] ⇒ [Service & Maintenance] ⇒ [Service password] ⇒ [IU address]	Press the AIR CON NO button to display the IU address. Press the A or button and check addresses of connected indoor units one by one.
2	Check if each unit is connected properly in the remote control system.	[Menu] ⇒ [Service setting] ⇒ [Service & Maintenance] ⇒ [Service password] ⇒ [IU address] ⇒ [Check run mode]	 Press the AIR CON NO button to display the IU address. Press the A or ▼ button and select one of IU addresses. Press the □ MODE button. The unit starts to blow air.
3	Setting main/sub remote controls	[Menu] ⇒ [Service setting] ⇒ [R/C function settings] ⇒ [Service password] ⇒ [Main/Sub of R/C]	Set SW1 to "Sub" for the sub remote control unit.
4	Checking operation data	Menu ⇒ (Service setting) ⇒ Service & Maintenance ⇒ Service password ⇒ (Operation data)	Press the ☐HEXX button. ⇒ "DFR DATA V" is displayed. ⇒ Press the □ GST) button. ⇒ "Influming" is displayed. ⇒ Select one of addresses for conceted indoor units by pressing the ☐N or V button. ⇒ Press the □□ (SET) button. ⇒ "Influming" is displayed. ⇒ Select data by pressing the ☐N or V button.
5	Checking inspection display	[Menu] ⇒ [Service setting] ⇒ [Service & Maintenance] ⇒ [Service password] ⇒ [Error display]	Press the CHECK button. ⇒ "OFFROATA ▼" is displayed. ⇒ Press the ▼ button. ⇒ "BYBROATA ▲" is displayed. ⇒ Press the ③ (SET) button. ⇒ "BYBROATA A" is displayed. ⇒ Data is displayed.
6	Cooling test run from remote control	[Menu] ⇒ [Service setting] ⇒ [Installation settings] ⇒ [Service password] ⇒ [Test run] ⇒ [Cooling test run] ⇒ [Start]	1) Start the system by pressing the (DOWOFE) button. 2) Select **E (COO)** with the (SO) (MODE) button. 3) Press the (LEST) button for 3 seconds or longer. The screen display will switch to **S (EST) button, while the **EST RUN ** is displayed, starts the cooling test run. The screen display will switch to **TEST RUN*.
7	Trial operation of drain pump from remote control	$\begin{split} & Menu \Rightarrow Service \ setting \Rightarrow \\ & Installation \ settings \Rightarrow \\ & Service \ password \Rightarrow Test \ run \Rightarrow \\ & Drain \ pump \ test \ run \Rightarrow Run \end{split}$	① Start the system by pressing the ②○NOOFE button. The display will chang to "# ETR RIM ▼" ② Press the ☑ button once to display "0RMRFUT" ≎". ③ Pressing the ③ (SET) button starts the drain pump operation. The display will show "+50 10 18 TIP".

The menu configuration may vary depending on models of the remote control. If the model of your remote control is different, refer to the installation manual attached to the remote control.



- ■XR1-4 are DC 12 V relays. (Equivalent to Omron's LY2F)
- •XR5 is a DC 12 V, 24 V or 100 V, 200 V relay. (Equivalent to Omron's MY2F)
- Maker and model of CnT connector (Site side)

Connector : Molex 5264-06 Terminal : Molex 5263T

CnTA connector is used on FDT, or other. <Check with the specifications.> (Site side) Maker and model Connector: J.S.T. Mfg. XAP02V-1-E

Connector: J.S.T. Mfg. XAP02V-1-E Terminal: J.S.T. Mfg. SXA-01T-P0.6

ullet Output 1 – 4 and input1/2 can be selected/set as required from following items.

Factory default is set as shown below.

RUN output	8 Fan ON output 3
② Heating output	Defrost/oil return output
③ Compressor ON output	Ventilation output
Inspection (error) output	Heater output
Cooling output	12 Free cleaning output
6 Fan ON output 1	Indoor overload error output
7 Fan ON output 2	
nput	
nput ① RUN/STOP	⑤ Setting temp. shift
nput 1 RUN/STOP 2 RUN permit prohibition	6 Compulsory thermostat OFF
nput 1 RUN/STOP 2 RUN permit prohibition 3 Emergency stop	6 Compulsory thermostat OFF 7 Temporary stop
nput 1 RUN/STOP 2 RUN permit prohibition	6 Compulsory thermostat OFF
nput RUN/STOP	6 Compulsory thermostat OFF 7 Temporary stop
nput RUN/STOP	6 Compulsory thermostat OFF 7 Temporary stop
nput ① RUNSTOP ② RUN permit prohibition ③ Emergency stop ④ Cooling/Heating Factory default setting	© Compulsory thermostat OFF Temporary stop Silent mode

⑤ Operation and setting from remote control A : Refer to the instruction manual for RC-EX series ○ : Nearly same function setting and operations are possible. *1: Remote controls before RC-EX1A don't have this function. B: Refer to the installation manual for RC-EX series *2: Remote controls before RC-EX3 don't have this function. △ : Similar function setting and opperations are possible. C: Loading a utility software vie Internet Setting & display iten Description RC-EX3A RC-E5 .Remote Control network 1 Control plural indoor units by a single remote control A remote control can control plural indoor units up to 16 (in one group of remote control network). An address is set to each indoor unit. 2 Main/sub setting of remote controls A pair of remote controls (including option wireless remote control) can be connected within the remote control В network. Set one to "Main" and the other to "Sub" 2.TOP scrren, Switch manipulation "Control","State", or "Details" can be selected. (3-8) "Cooling","Heating","Fan","Dry" or "Auto" can be set. 1 Menu 2 Operation mode 3 Set temp. 4 Air flow direction "Set temperature" can be set by 0.5°C interval. Α "Air flow direction" [Individual flap control] can be set. Select Enable or Disable for the "3D AUTO" (in case of FDK). *1 Α 5 Fan speed 'Fan speed" can be set. 6 Timer setting 7 ON/OFF "Timer operation" can be set. "On/Off operation of the system" can be done. 8 F1 SW 9 F2 SW The system operates and is controlled according to the function specified to the F1 switch. The system operates and is controlled according to the function specified to the F2 switch 10 Select the language Select the language to display on the remote control Α Select from English, German, French, Spanish, Italian, Dutch, Turkish, Portuguese, Russian, Polish, Japanese and Chinese. 3 Useful functions 1 Individual flap control The moving range (the positions of upper limit and lower limit) of the flap for individual flap can be set. Α \triangle Set also the left and right limit positions for FDK. *1 2 Anti draft settingYou can set Enable or Disable for anti draft motion performed at each blow outlet in each operation mode Α When the panel with the anti-draft function is assembled. ${\tt ON/OFF\ setting\} You\ can\ set\ {\tt ON/OFF\ (operation/stop)\ of\ anti}\ draft\ function\ for\ the\ enabled\ blow\ outlet\ set\ in\ Details.$ The period of time to start operation after stopping can be set. 3 Timer settings Set On timer by hour The period of set time can be set within range of 1hour-12houres (1hr interval) The operation mode, set temp-and fan speed at starting operation can be set. Α \triangle Set Off timer by hour The period of time to stop operation after starting can be set Α Δ The period of set time can be set within range of 1hour-12houres (1hr interval) Set On timer by clock The clock time to start operation can be set. The set clock time as a be set by 5-minutes intervals. [Once (one time only)] or [Everyday] operation can be switched. The operation mode, set temp. and fan speed at starting operation can be set. Α The clock time to stop operation can be set. The set clock time can be set by 5-minute intervals. [Once (one time only)] or [Everyday] operation can be switched Set Off timer by clock Α \triangle tatus of timer settings can be seen. Confirmation of timer settings Set the operation mode, setting temperature, air flow capacity and air flow direction for the choice setting operations 4 Favorite setting Α Set them for the Favorite set 1 and the Favorite set 2 respectively. On timer and Off timer on weekly basis can be set. 8-operation patterns per day can be set at a maximum. [Administrator password] Weekly time orberation factories per day can be set at a maximum. The setting clock time can be set by 5-minute intervals. Holiday setting is available. The operation mode, set temp. and fan speed at starting operation can be set. Α 6 Home leave mode When leaving home for a long period like a vaction leave, the unit can be operated to maintain the room temperature not to be hotter in summer or not to be colder in winter. The judgment to switch the operation mode (Cooring \Leftrightarrow Heating) is done by the both factors of the set temp. and outdoor air temp The set temp. and fan speed can be set. Administrator password1 On/Off operation of the external ventilator can be done. It is necessary to set from [Menu] ⇒ [Service setting] ⇒ [R/C function settings] ⇒ [Ventilation setting]. If the "Independent" is selected for the ventilation setting, the ventilator can be operated or stopped. 7 External Ventilation When the ventilator is combined. Α Select the language to display on the remote control. Select from English, German, French, Spanish, Italian, Dutch, Turkish, Portuguese, Russian, Polish, Japanese and Chinese. *1 8 Select the language Α 9 Silent mode control The period of time to operate the unit by prioritizing the quietness can be set • Start and end can be set for the silent mode Α Administrator password 4.Energy-saving setting To prevent the timer from keeping ON, set hours to stop operation automatically with this timer. 1 Sleep timer \triangle The selectable range of setting time is from 30 to 240 minutes. (10-minute intervals) When setting is "Enable", this timer will activate whenever the 0N timer is set. Α 2 Peak-cut timer Power consumption can be reduced by restructing the maximum capacity For the consumption can be reduced by restricting the final multi-dapacity. Set the [Start time], the [End time] and the capacity limit % (Peak-cut %). 4-operation patterns per day can be set at maximum. The setting time can be changed by 5-minute intervals. The setectable range of capacity limit % (Peak-cut %) is from 0% to 40-80% (20% interval). Α Holiday setting is available. After the elapse of the set time period, the current set temp. will be set back to the [Set back time.] * The setting can be done in cooling and heating mode respectively. * Selectable range of the set time is from 20 min. to 120 min. (10 min. interval). * Set the [Set back temp.] by 1°C interval. 3 Automatic temp set back When the motion sensor is used, it is necessary to set Enable or Disable for the "Power control" and the "Auto-off". 4 Motion sensor control Α When the panel with the motion sensor is assembled The filter sign can be reset 1 Filter sign reset Filter sign reset Setting next cleaning date The next cleaning date can be set. 6.User setting The current date and time can be set or revised. If a power failure continues no longer than 80 hours, the clock continues to tick by the built-in power source. 1 Internal settings Clock setting Α Date and time display [Display] or [Hide] the date and/or time can be set, and [12H] or [24H] display can be set. When select [Enable], the +1hour adjustment of current time can be set. When select [Disable], the [Summer time] adjustment can be reset Summer time Contrast The contrast of LCD can be adjusted higher or lower. Switching on/off a light can be set and period of the lighting time can be set within the range of 5sec-90 sec (5sec interval) Backlight It can set with or without [Control sound (beep sound)] at touch panel. Control sound Operation lamp luminance This is used to adjust the luminance of operation lamp. Α Permission/Prohibition setting of operation can be set. [On/Off] [Change set temp] [Change operation mode] [Change flap direction] [Change fan speed] [High power operation] [Energy-saving operation] [Timer] Request for administrator can be set. 2 Administrator settings ermission/Prohibition setting Administrator password [Individual flap control] [Weekly timer] [Select the language] [Anti draft setting] *1 The period of time to operate the outdoor unit by prioritizing the quiteness can be set. The [Start time] and the [End time] for operating outdoor unit in silent mode can be set. Outdoor unit silent mode time Α The period of the operation time can be set once aday by 5-minute interals. The upper/lower limit of temp. setting range can be set. The limitation of indoor temp. setting range can be set for each operation mode in cooling and heating. Setting temp, range Α \triangle

Contractions participy Contractions participated partici	tting & display item		Description	RC-EX3A	RC-
See it was calculary Portification's password of PC capture serior Processing of the capture serior Description of the capture serior Prift Sunder serio					110
Compare administrator passwards in the process of t					
Contes personnell programments personnell by the administrator passessord on the order of the Contest on State (1997) and the Contest (1997) and t	[Administrator password]		Display [Indoor temp display] or not. Display [Error code display] or not.	Α	_
PROF. Sections writing The control of the control			The administrator password can be changed. (Default setting is "0000")		
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Service proteower	ervice setting		[arone oot 2] and [mor oigh rooth		
Company information Tel for tan Coasting part an an Tel for progression of the person of	Installer settings [Service password]	Installation date	When registering the [Instaration date], the [Next service date] is displayed automatically.	В	
Flat or In Cooking best run. The Disposition of the least not can be advoced. Cooking best run the Cooking best of can be above at \$20 dest strong, but \$30 minutes. Only of any pump best fairs with the present of the control of the present of the cooking of t		Company information	The [Company information] can be registed and can be displayed on the R/C. • The [Company] can be registered within 26 characters.	В	
Counting best run. Dearway purpose to run. Store, pressure adjustment. Store, pressure adjustment. Store, pressure adjustment. Change auto-address of the pressure adjustment in a sear of contributions in the pressure adjustment. It is attack, pressure adjustment. Address acting of the pressure adjustment in a sear of contributions in the pressure adjustment. It is attack, pressure adjustment. Address acting of the pressure adjustment and the pressure adjustment and the pressure adjustment. It is adjustment and the pressure adjustment and the pressure adjustment. Address acting of the pressure adjustment and the pressure adjustment and the pressure adjustment and the pressure adjustment. Address acting of the pressure adjustment and the pre		Test run			
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- The case with the set of the case of the			Only drain pump can be operated.		
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train II J Conf. the Main indoor unit can charge operation mode and the Sol indoor units comisated by the Main indoor shall follow. The Main indoor shall		Change auto-address	The set address of each indoor unit decided by auto-address setting method can be changed to any other address. (For		
When the part with the major of information () When the part with the major of information () When the part with the major () Set Enable or Disable for the infrared service declared on the carried of the remote control. (I am bear formation of the carried of the remote control.)			Only the Main indoor unit can change operation mode and the Sub indoor units dominated by the Main indoor shall follow.	В	2
When the panel with the motion of Disable is selected, it cannot be control for the energy-saving setting. Bit Churctors setting When two or more indoor with are connected to one until of remote control, suction sensors, which are used for the RPC sensor at temp. RC sensor It can be selected from principlosal, [Relater III] and [Sensorge Irms]. RC sensor at the set the mode to switch the remote control, suction sensors, which are used for the RPC sensor at the set them does not switch the remote control, suction sensors, which are used for the RPC sensor at the set the mode of switch the remote control sensor. It can be selected from conting and heating. RC sensor It can be selected from principlosal, [Relater III] and [Sensorge Irms]. RC sensor at the set them mode sensor sensor sensor sensor sensor sensor sensor sensor. It can be selected from conting and heating. RC sensor at the set them mode sensor sensor sensor sensor sensor sensor sensor sensor. It can be selected. First speed. First speed. First speed. First speed in the sensor sen		·	When a pair of indoor units (2 groups) is connected to one unit of remote control, it can be set Enable or Disable for the [IU rotation], [IU capacity back-up] and [IU fault back-up]	В	
Service passwort		When the panel with the motion		В	
Service password	R/C function setting	Main/Sub R/C		В	
RC sensor adjustment RC sensor RC sensor R	[Service password]		judgement by thermostat, can be selected.	В	
Departion mode Enable or Disable can be set for each operation mode. B C C C F Set the unit for setting temperatures. B S S S S S S S S S		R/C sensor			
For Set the unit for setting temperatures. *Co of "Can be selected. Fina speed Fina speed Fina speeds can be selected. External input When two or more indirect units are connected to one unit of remote control, the range to apply CNT inputs can be set. B Upper/lower fisp control *Experiment of the provided of the speed of the speed of the speed and work lowers. B (Upper/lower fisp control) *Experiment of the speed of the speed of the speed of the speed and work lowers. B (Vertilation setting Combination control for vertilation can be setted. Auto-restart The operation control method after recovery of power failure happened during operation can be set. B (Vertilation setting Combination control for vertilation can be setted. Auto temp setting (Enable) or (Deable) or (Auto temp setting) (as he selected. B (Vertilation setting Combination control for Vertilation can be setted. B (Vertilation setting Combination control for Vertilation can be setted. B (Vertilation setting Combination Control of Public Instruction and the setted. B (Vertilation setting Combination Control of Public Instruction Combination Control of Public Instruction Combination Combina					
Fan speed Fan sp			Set the unit for setting temperatures.		
Upper/lower flag control Shop at fixed position of (Shop at any position) can be selected for the upper and lower lowers. B Vertilation setting Vertilation setting Combination control for vertilation can be set. B Vertilation setting Combination control for vertilation can be set. B Auto temp setting Canada C		Fan speed		В	
Lethright flag control 1 Floor position stop) or (Stop at any position) can be selected for the right and left louvers. 8 8 Auto-restart 1					
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1.10.3 Installation of wired remote control (Option parts)

(1) Model RC-EX3A

1) Safety precautions

Please read this manual carefully before starting installation work to install the unit properly. Every one of the followings is important information to be observed strictly.

WARNING consequences such as d	leath, severe injury, etc.
CAUTION Failure to follow these instance.	structions properly may cause injury or property

It could have serious consequences depending on the circumstances.

The following pictograms are used in the text.



Keep this manual at a safe place where you can consult with whenever necessary. Show this manual to installers when moving or repairing the unit. When the ownership of the unit is transferred, this manual should be given to a new owner.

!WARNING

- Consult your dealer or a professional contractor to install the unit.

 Improper installation made on your own may cause electric shocks, fire or dropping of the unit.
- Installation work should be performed properly according to this installation manual.

Improper installation work may result in electric shocks, fire or break-down.

- Be sure to use accessories and specified parts for installation work.
 Use of unspecified parts may result in drop, fire or electric shocks.
- Install the unit properly to a place with sufficient strength to hold the weight.

If the place is not strong enough, the unit may drop and cause injury.

Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circuit.

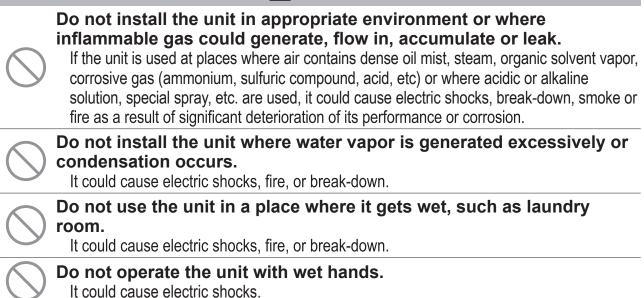
Power source with insufficient and improper work can cause electric shock and fire.

- Shut OFF the main power source before starting electrical work. Otherwise, it could result in electric shocks, break-down or malfunction.
- Do not modify the unit.

 It could cause electric shocks, fire, or break-down.
- Be sure to turn OFF the power circuit breaker before repairing/inspecting the unit.

Repairing/inspecting the unit with the power circuit breaker turned ON could cause electric shocks or injury.

MARNING





It could cause electric shocks, fire, or break-down.

Use the specified cables for wiring, and connect them securely with care to protect electronic parts from external forces.

Improper connections or fixing could cause heat generation, fire, etc.

Seal the inlet hole for remote control cable with putty.

If dew, water, insect, etc. enters through the hole, it could cause electric shocks, fire or break-down.

If dew or water enters the unit, it may cause screen display anomalies.

When installing the unit at a hospital, telecommunication facility, etc., take measures to suppress electric noises.

It could cause malfunction or break-down due to hazardous effects on the inverter, private power generator, high frequency medical equipment, radio communication equipment, etc.

The influences transmitted from the remote control to medical or communication equipment could disrupt medical activities, video broadcasting or cause noise interference.

Do not leave the remote control with its upper case removed.

If dew, water, insect, etc. enters through the hole, it could cause electric shocks, fire or break-down.

ACAUTION

Do not install the remote control at following places.

- (1) It could cause break-down or deformation of remote control.
 - Where it is exposed to direct sunlight
 - Where the ambient temperature becomes 0 °C or below, or 40 °C or above
 - Where the surface is not flat
 - · Where the strength of installation area is insufficient
- (2) Moisture may be attached to internal parts of the remote control, resulting in a display failure.
 - Place with high humidity where condensation occurs on the remote control
 - · Where the remote control gets wet
- (3) Accurate room temperature may not be detected using the temperature sensor of the remote control.
 - · Where the average room temperature cannot be detected
 - Place near the equipment to generate heat
 - Place affected by outside air in opening/closing the door
 - Place exposed to direct sunlight or wind from air-conditioner
 - Where the difference between wall and room temperature is large

To connect to a personal computer via USB, use the dedicated software.

Do not connect other USB devices and the remote control at the same time.

It could cause malfunction or break-down of the remote control/personal computer.

2) Accessories & Prepare on site

Following parts are provided.

Accessories R/C main unit, wood screw (ø3.5 x 16) 2 pcs, Quick reference

Following parts are arranged at site. Prepare them according to the respective installation procedures.

Item name	Q'ty	Remark
Switch box For 1 piece or 2 pieces (JIS C 8340 or equivalent)	1	
Thin wall steel pipe for electric appliance directly on a wall. (JIS C 8305 or equivalent)	As required	These are not required when installing directly on a wall.
Lock nut, bushing (JIS C 8330 or equivalent)	As required	
Lacing (JIS C 8425 or equivalent)	As required	Necessary to run R/C cable on the wall.
Putty	Suitably	For sealing gaps
Molly anchor	As required	
R/C cable (0.3 mm ² x 2 pcs)	As required	See right table when longer than 100 m

When the cable length is longer than 100 m, the max size for wires used in the R/C case is 0.5 mm². Connect them to wires of larger size near the outside of R/C. When wires are connected, take measures to prevent water, etc. from entering inside.

≦ 200 m	0.5 mm ² x 2 cores
≦ 300m	0.75 mm ² x 2 cores
≦ 400m	1.25 mm ² x 2 cores
≦ 600m	2.0 mm ² x 2 cores

3) Installation place

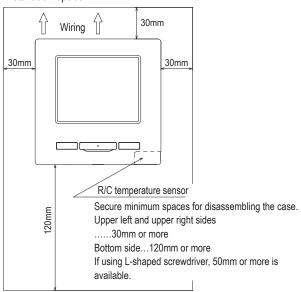
Secure the installation space shown in the figure.

For the installation method, "embedding wiring" or "exposing wiring" can be selected.

For the wiring direction, "Backward", "Upper center" or "Upper left" can be selected.

Determine the installation place in consideration of the installation method and wiring direction.

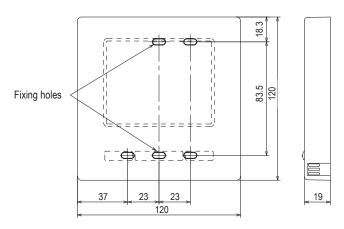
Installation space



4) Installation procedure

Perform installation and wiring work for the remote control according to the following procedure.

Dimensions (Viewed from front)



To disassemble the R/C case into the upper and lower pieces after assembling them once

 \cdot Insert the tip of flat head screwdriver or the like in the recess at the lower part of R/C and twist it lightly to remove. It is recommended that the tip of the screwdriver be wrapped with tape to avoid damaging the case.

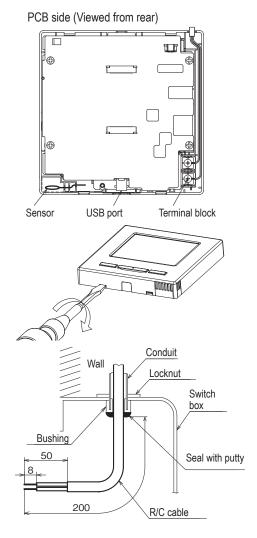
Take care to protect the removed upper case from moisture or dust.

In case of embedding wiring

(When the wiring is retrieved "Backward")

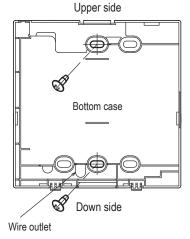
1 Embed the switch box and the R/C wires beforehand.

Seal the inlet hole for the R/C wiring with putty.

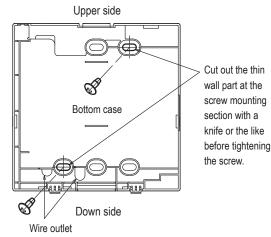


② When wires are passed through the bottom case, fix the bottom case at 2 places on the switch box.





Switch box for 2 pcs

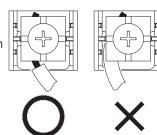


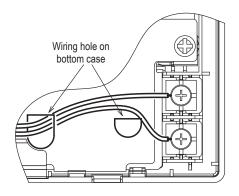
- ③ Connect wires from X and Y terminals of R/C to X and Y terminals of indoor unit. R/C wires (X, Y) have no polarity. Fix wires such that the wires will run around the terminal screws on the top case of R/C.
- 4 Install the upper case with care not to pinch wires of R/C.

Cautions for wire connection

Use wires of no larger than 0.5 mm² for wiring running through the remote control case. Take care not to pinch the sheath.

Tighten by hand $(0.7\ N\cdot m\ or\ less)$ the wire connection. If the wire is connected using an electric driver, it may cause failure or deformation.





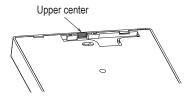
In case of exposing wiring

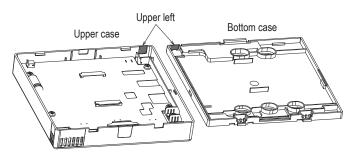
(When the wiring is taken out from the "upper center" or "upper left" of R/C)

1) Cut out the thin wall sections on the cases for the size of wire.

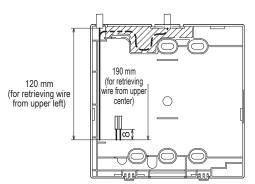
When taking the wiring out from the upper center, open a hole before separating the upper and bottom cases. This will reduce risk of damaging the PCB and facilitate subsequent work.

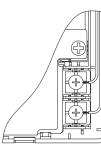
When taking the wiring out from the upper left, take care not to damage the PCB and not to leave any chips of cut thin wall inside.





- ② Fix the bottom R/C case on a flat surface with two wood screws.
- ③ In case of the upper center, pass the wiring behind the bottom case. (Hatched section)
- 4 Connect wires from X and Y terminals of R/C to X and Y terminals of indoor unit. R/C wires (X, Y) have no polarity. Fix wires such that the wires will run around the terminal screws on the top case of R/C.
- (5) Install the top case with care not to pinch wires of R/C.
- 6 Seal the area cut in 1 with putty.



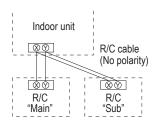


5) Main/Sub setting when more than one remote control are used

Up to two units of R/C can be used at the maximum for 1 indoor unit or 1 group.

One is main R/C and the other is sub R/C.

Operating range is different depending on the main or sub R/C.



R/C operation	Main	Sub		
Run/Stop, Change set temp., Change flap direction, Auto swing, Change fan speed operations			0	0
High power of	High power operation, Energy-saving operation			0
Silent mode control			0	×
Useful	Individual flap control		0	×
functions	Anti draft se	etting	0	×
	Timer		0	0
	Favorite se	tting	0	0
	Weekly tim	er	0	×
	Home leave	e mode	0	×
	External ve	ntilation	0	0
	Select the language		0	0
	Silent mode	0	×	
Energy-saving setting			0	×
Filter	Filter sign reset		0	0
User setting	Initial settin	gs	0	0
	Administrator settings	Permission/ Prohibition setting	0	×
		Outdoor unit silent mode timer	0	×
		Setting temp. range	0	×
		Temp increment setting	0	x
		Set temp. display	0	0
		R/C display setting	0	0
		Change administrator password	0	0
		F1/F2 function setting	0	0

			○ : operable ×: n	ot ope	erable
R/C operations					Sub
Service Installation		Installati	0	×	
setting	etting settings		Company information		
		Test run	0	×	
		Static pressure adjustment Change auto-address Address setting of main IU		0	×
				0	×
				0	×
		IU back-up function			×
		Motion s	ensor setting	0	×
	R/C function	Main/Su	b of R/C	0	0
	settings	Return a	nir temp.	0	×
		R/C sen	sor	0	×
		R/C sen	sor adjustment	0	×
		Operation	n mode	0	×
		°C / °F		0	×
		Fan spe	ed	0	×
		External	input	0	×
		Upper/lo	0	×	
	Left/		t flap control	0	×
		Ventilation setting Auto-restart Auto temp. setting		0	×
				0	×
				0	×
		Auto fan	0	×	
	IU settings				
	Service &	IU address		0	0
	Maintenance	Next service date		0	×
		Operation	n data	0	×
		Error	Error history	0	0
		display Display/eras anomaly dat		0	×
			Reset periodical check	0	0
		Saving IU settings		0	×
		Special	Erase IU address	0	×
		settings	CPU reset	0	0
			Restore of default setting	0	×
			Touch panel calibration	0	0
		Indoor u	nit capacity display	0	×

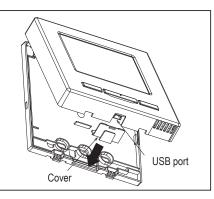
Advice: Connection to personal computer

It can be set from a personal computer via the USB port (mini-B). Connect after removing the cover for USB port of upper case.

Replace the cover after use.

Special software is necessary for the connection.

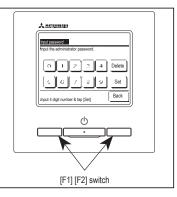
For details, view the web site.



Advice: Initializing of password

Administrator password (for daily setting items) and service password (for installation, test run and maintenance) are used.

- The administrator password at factory default is "0000". This setting can be changed (Refer to User's Manual).
 - If the administrator password is forgotten, it can be initialized by holding down the [F1] and [F2] switches together for five seconds on the administrator password input screen.
- Service password is "9999", which cannot be changed.
 When the administrator password is input, the service password is also accepted.



Advice

When connecting two or more FDT/FDTC to one R/C, unify the panel type either to a panel with anti draft function or a standard panel.

PJA012D730/B

(2) Model RC-E5

Read together with indoor unit's installation manual.

MARNING

Fasten the wiring to the terminal securely and hold the cable securely so as not to apply unexpected stress on the terminal.

Loose connection or hold will cause abnormal heat generation or fire.

Make sure the power source is turned off when electric wiring work.
Otherwise, electric shock, malfunction and improper running may occur.



ACAUTION

- Do not install the remote control at the following places in order to avoid malfunction.
 - (1) Places exposed to direct sunlight
- (4) Hot surface or cold surface enough to generate condensation
- (2) Places near heat devices
- (5) Places exposed to oil mist or steam directly
- (3) High humidity places
- (6) Uneven surface



Do not leave the remote control without the upper case.

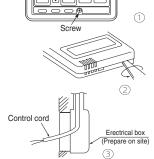
In case the upper cace needs to be detached, protect the remote control with a packaging box or bag in order to keep it away from water and dust.



Accessories	Remote control, wood screw (ø3.5×16) 2 pieces	
Prepare on site	Remote control cord (2 cores) the insulated thickness in 1mm or more.	
	[In case of embedding cord] Erectrical box, M4 screw (2 pieces)	
	[In case of exposing cord] Cord clamp (if needed)	

Installation procedure

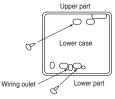
- Open the cover of remote control, and remove the screw under the buttons without fail.
- ② Remove the upper case of remote control. Insert a flat-blade screwdriver into the dented part of the upper part of the remote control, and wrench slightly.

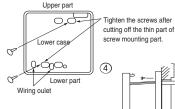


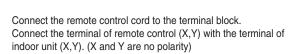
[In case of embedding cord]

3 Embed the erectrical box and remote control cord beforehand.

Prepare two M4 screws (recommended length is 12-16mm) on site, and install the lower case to erectrical box. Choose either of the following two positions in fixing it with screws.



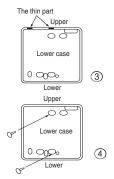




Install the upper case as before so as not to catch up the remote control cord, and tighten with the screws.

[In case of exposing cord]

- You can pull out the remote control cord from left upper part or center upper part. Cut off the upper thin part of remote control lower case with a nipper or knife, and grind burrs with a file etc.
- ④ Install the lower case to the flat wall with attached two wooden screws.

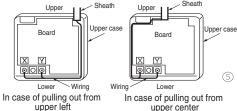


M4 screw × 2 (Prepare on site)

5 Connect the remote control cord to the terminal block.

Connect the terminal of remote control (X,Y) with the terminal of indoor unit (X,Y). (X and Y are no polarity)

Wiring route is as shown in the right diagram depending on the pulling out direction.



The wiring inside the remote control case should be within 0.3mm² (recommended) to 0.5mm². The sheath should be peeled off inside the remote control case.

The peeling-off length of each wire is as below.

Pulling out from upper left	Pulling out from upper center
X wiring : 215mm	X wiring : 170mm
Y wiring: 195mm	Y wiring: 190mm



- Install the upper case as before so as not to catch up the remote control cord, and tighten with the screws.
- In case of exposing cord, fix the cord on the wall with cord clamp so as not to slack.

Installation and wiring of remote control

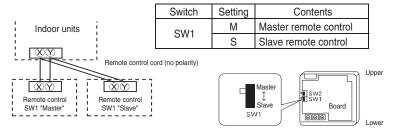
- ① Wiring of remote control should use 0.3mm² × 2 cores wires or cables. (on-site configuration)
- 2 Maximum prolongation of remote control wiring is 600 m.

If the prolongation is over 100m, change to the size below.

But, wiring in the remote control case should be under 0.5mm². Change the wire size outside of the case according to wire connecting. Waterproof treatment is necessary at the wire connecting section. Be careful about contact failure.

Master/ slave setting when more than one remote controls are used

A maximum of two remote controls can be connected to one indoor unit (or one group of indoor units.)



Set SW1 to "Slave" for the slave remote control. It was factory set to "Master" for shipment.

Note: The setting "Remote control sensor enabled" is only selectable with the master remote control in the position where you want to check room temperature.

The air-conditioner operation follows the last operation of the remote control regardless of the master/ slave setting of it.

The indication when power source is supplied

When power source is turned on, the following is displayed on the remote control until the communication between the remote control and indoor unit settled.

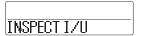
At the same time, a mark or a number will be displayed for two seconds first.

This is the software's administration number of the remote control, not an error cord.



When remote control cannot communicate with the indoor unit for half an hour, the below indication will appear

Check wiring of the indoor unit and the outdoor unit etc.



The range of temperature setting

When shipped, the range of set temperature differs depending on the operation mode as below.

Heating: 16-30°C (55-86°F)

Except heating (cooling, fan, dry, automatic): 18-30°C (62-86°F)

●Upper limit and lower limit of set temperature can be changed with remote control.

Upper limit setting: valid during heating operation. Possible to set in the range of 20 to 30°C (68 to 86°F). Lower limit setting: valid except heating (automatic, cooling, fan, dry) Possible to set in the range of 18 to 26°C (62 to 79°F).

When you set upper and lower limit by this function, control as below.

When ②TEMP RANGE SET, remote control function of function setting mode is "INDN CHANGE" (factory setting),
 If upper limit value is set]

During heating, you cannot set the value exceeding the upper limit.

[If lower limit value is set]

During operation mode except heating, you cannot set the value below the lower limit.

2. When ② TEMP RANGE SET, remote control function of function setting mode is "NO INDN CHANGE" [If upper limit value is set]

During heating, even if the value exceeding the upper limit is set, upper limit value will be sent to the indoor unit. But, the indication is the same as the temperature set.

[If lower limit value is set]

During except heating, even if the value lower than the lower limit is set, lower limit value will be sent to the indoor unit. But, the indication is the same as the temperature set.

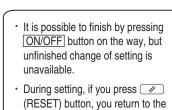
How to set upper and lower limit value

1. Stop the air-conditioner, and press (SET) and (MODE) button at the same time for over three seconds.

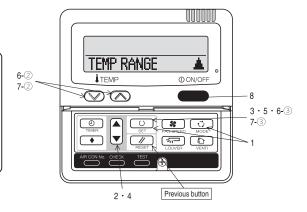
The indication changes to "FUNCTION SET ▼".

- 2. Press ▼ button once, and change to the "TEMP RANGE ▲ " indication.
- 3. Press (SET) button, and enter the temperature range setting mode.
- 4. Select "UPPER LIMIT ▼" or "LOWER LIMIT ▲" by using ▲ ▼ button.
- 5. Press (SET) button to fix.
- 6. When "UPPER LIMIT ▼" is selected (valid during heating)
 - ① Indication: " $\bigcirc \lor \land$ SET UP" \rightarrow "UPPER 30°C \lor "
 - ② Select the upper limit value with temperature setting button ☑ ⚠ . Indication example: "UPPER 26°C ∨ ∧" (blinking)
 - ③ Press ◯ (SET) button to fix. Indication example: "UPPER 26°C" (Displayed for two seconds)

 After the fixed upper limit value displayed for two seconds, the indication will return to "UPPER LIMIT ▼".
- 7. When "LOWER LIMIT **\(\Lambda \)**" is selected (valid during cooling, dry, fan, automatic)
 - ① Indication: " \bigcirc $\lor \land$ SET UP" \rightarrow "LOWER 18°C \land "
 - ② Select the lower limit value with temperature setting button $\boxed{\lor}$ $\boxed{\land}$. Indication example: "LOWER 24°C \lor \land " (blinking)
 - ③ Press (SET) button to fix. Indication for example: "LOWER 24°C" (Displayed for two seconds)
 After the fixed lower limit value displayed for two seconds, the indication will return to "LOWER LIMIT ▼".
- 8. Press ON/OFF button to finish.



previous screen.



The functional setting

The initial nation setting for typical using is performed automatically by the indoor unit connected, when remote control and indoor unit are connected.

As long as they are used in a typical manner, there will be no need to change the initial settings.

If you would like to change the initial setting marked "C", set your desired setting as for the selected item. The procedure of functional setting is shown as the following diagram.

[Flow of function setting] Record and keep the setting Consult the technical data etc. for each control details It is possible to finish above setting on the way, and unfinished change of setting is unavailable.

" ": Initial settings

" * ": Automatic criterion Stop air-conditioner and press

Stop air-conditioner and press

(MODE) buttons at the same time for over three seconds

Note 1: The initial setting marked * * is decided by connected indoor and outdoor unit, and is automatically defined as following table. | International Content of the Conte ndoor and outdoor unit, and is automatically defined as f Model
"Auto-RIN" mode selectable indoor unit. Indoor unit without "Auto-RIN" mode Indoor unit without "Auto-RIN" mode Indoor unit with two or three step of air flow setting Indoor unit with automatically swing lower Indoor unit without automatically swing lower Indoor unit with three step of air flow setting Indoor unit with three step of air flow setting Indoor unit with two step of air flow setting Indoor unit with two step of air flow setting Function No.
Remote control function02
Remote control function06
Remote control Item AUTO RUN SET Remote control function07
Remote control function13 Indoor unit with only one of air flow setting

					·.	
			FUNCTION SET ▼	No. are indicated only whe	_	Note2: Fan setting of "HIGH SPEED"
(Remote control fu	notion)		(Indoor unit function) IZU FUNCTION ▲ plural indoor		n	Indoor unit air flow setting
N ▼ (Hemote control tu	nction)		(Indoor unit function) [1/U FUNCTION A] piurai iridoo.	Function		Fan tap \$\partial - \partial - \part
Function			I/0000 ▲	02 FAN SPEED SET	setting	FAN STANDARD UH-Hi-Me-Lo Hi-Me-Lo Hi-Lo Hi-
01 300 EFST	setting	LO	Validate setting of ESP:External Static Pressure 1/0002 ≠		STANDARD X HIGH SPEED 1 X	SPEED
	AND EST WALD AND EST NWALD	10	Validate setting of ESP:External Static Pressure 1/0002 ≑ Invalidate setting of ESP 1/0003 ≑		HIGH SPEED 2 *	SET SPEED UH-UH-HI-Me UH-HI-Me UH-Me UH-Me
02 AUTO RUN SET			1/U004 \$	03 FILTER SIGN SET		Initial function setting of some indoor unit is "HIGH SPEED".
	AUTO RUN ON AUTO RUN OFF	×			INDICATION OFF	The filter sign is indicated after running for 180 hours.
03 MA TEMP SW	1101011011011	- X	Automatical operation is impossible		TYPE 1 O	The filter sign is indicated after running for 600 hours.
	S⊠⊠ VALID	0	To set other indoor unit, press Temperature setting button is not working. AIR CON No. button, which		TYPE 3	The filter sign is indicated after running for 1000 hours.
04 SE MODE SW	POMP INVALID		Temperature setting button is not working AIR CON No. button, which allows you to go back to the indoor		TYPE 4	The filter sign is indicated after running for 1000 hours, then the indoor unit will be stopped by compulsion after 24 hours.
04 122 11000 011	등급 VALID 등급 INVALID	10	unit selection screen	04 ⇒, POSITION		If you change the indoor function "04 ">¬ POSITION".
05 I ⊕ ON/OFF SW	⊕© INVALID		Mode button is not working (for example: I/U 000 ▲).		4POSITION STOP O	you must change the remote control function "14 ⇒ POSITION" accordingly.
US CONFORT OW	5⊕ VALID	ТО	1		FREE STOP	You can select the louver stop position in the four. The louver can stop at any position.
	⊕	T	On/Off button is not working	05 EXTERNAL INPUT		The fourth our stop at any position.
06 M FAN SPEED SW	-652 VALID	Lw	-		LEVEL INPUT O	
	⊕ SEE INVALID	×	Fan speed button is not working	06 ORBITANISSANISSANISM		
07 🖾 LOUVER SW		1			INVALID O	
	6년 VALID 6년 INVALID	*	Louver button is not working	07 EMERGENCY STOP	AUTIN	Permission/prohibition control of operation will be valid.
08 @ TIMER SW		4 700	Course Salari S not Working	S, LILIOLIOI GIGI	INVALID O	1
	e⊚ VALID e⊚ INVALID	10			VALID	With the VRF series, it is used to stop all indoor units connected with the same outdoor unit im
09 SENSOR SET	TOTAL THANKTIN		Timer button is not working			When stop signal is inputed from remote on-off terminal "CNT-6", all indoor units are stopped in
	SENSOR OFF	0	Remote thermistor is not working.			
	SENSOR ON SENSOR +3.0%	+	Remote thermistor is working. Remote thermistor is working, and to be set for producing +3.0°C increase in temperature.		OFFSET +3.0% OFFSET +2.0%	To be reset for producing +3.0°C increase in temperature during heating. To be reset for producing +2.0°C increase in temperature during heating.
	SENSOR +2.0%		Remote thermistor is working, and to be set for producing +2.0°C increase in temperature.	08 I ★ SP OFFSET	OFFSET +1.0%	To be reset for producing +2.0 C increase in temperature during heating. To be reset for producing +1.0 C increase in temperature during heating.
	■SENSOR +1.0℃		Remote thermistor is working, and to be set for producing +1.0 °C increase in temperature.		NO OFFSET	, , , , , , , , , , , , , , , , , , , ,
	■SENSOR - 1.0 t ■SENSOR - 2.0 t	+	Remote thermistor is working, and to be set for producing -1.0°C increase in temperature. Remote thermistor is working, and to be set for producing -2.0°C increase in temperature.		OFFSET +2.0%	To be reset producing +2.0°C increase in return air temperature of indoor unit.
	SENSOR -3.0%		Remote thermistor is working, and to be set for producing -3.0°C increase in temperature.		0FFSET + 1.5%	To be reset producing +2.0°C increase in return air temperature of indoor unit. To be reset producing +1.5°C increase in return air temperature of indoor unit.
10 AUTO RESTART	Talliel ID	10		09 RETURN AIR TEMP	OFFSET +1.0%	To be reset producing +1.0°C increase in return air temperature of indoor unit.
	INVALID VALID	0	1		NO OFFSET O	To be reset producing -1.0°C increase in return air temperature of indoor unit.
11 VENT LINK SET					OFFSET - 1.5%	To be reset producing -1.5°C increase in return air temperature of indoor unit.
	NO VENT	10	In case of Single split series, by connecting ventilation device to CNT of the	10 X: FAN CONTROL	OFFSET -2.05	To be reset producing -2.0°C increase in return air temperature of indoor unit.
	VENT LINK		indoor printed circuit board (in case of VRF series, by connecting it to CND of the	10 12K FRIN GONTINUL	LOW FAN SPEED	When heating thermostat is OFF, fan speed is low speed.
	VENT LINK		indoor printed circuit board), the operation of ventilation device is linked with the		SET FAN SPEED	When heating thermostat is OFF, fan speed is set speed.
		+	operation of indoor unit. In case of Single split series, by connecting ventilation device to CNT of the indoor printed		INTERMITTENCE	When heating thermostat is OFF, fan speed is operated intermittently.
	NO VENT LINK		circuit board (in case of VRF series, by connecting it to CND of the indoor printed circuit		FAN OFF	When heating thermostat is OFF, the fan is stopped.
12 TEMP RANGE SET			board), you can operate /stop the ventilation device independently by (VENT) button.			When the remote thermistor is working, "FAN OFF" is set automatically. Do not set "FAN OFF" when the indoor unit's thermistor is working.
12 TENT KNINGE GET	TAUDAL OLIVANOS	То	If you change the range of set temperature, the indication of set temperature			
	INDN CHANGE	10	will vary following the control.	11 FROST PREVENTION TEMP		Change of indoor heat exchanger temperature to start frost prevention control.
	NO INDN CHANGE		If you change the range of set temperature, the indication of set temperature		TEMP HIGH TEMP LOW	
13 I/U FAN			will not vary following the control, and keep the set temperature.		LICH LOW	1
	HI-MID-LO HI-LO	×	Air flow of fan becomes the three speed of *** **** **************************	12 FROST PREVENTION CONTROL	Transpositros on 1.0	Working only with the Single split series.
	HI-LU HI-MID	1*	Air flow of fan becomes the two speed of <code>%unit -%uril</code> . Air flow of fan becomes the two speed of <code>%unit -%uril</code> .		FAN CONTROL ON O	To control frost prevention, the indoor fan tap is raised.
	1 FAN SPEED	*	Air flow of fan is fixed at one speed.	13 DRAIN PUMPLINK		
14 S□POSITION			If you change the remote control function "14 "> POSITION ",		SO O	Drain pump is run during cooling and dry.
14 1 > Truotitus	7		you must change the indoor function "04 ">POSITION" accordingly.		© O AND X AND RE	Drain pump is run during cooling, dry and heating. Drain pump is run during cooling, dry, heating and fan.
	4POSITION STOP	0	You can select the louver stop position in the four.	- La conscionaria	\$ Ó AND≅	Drain pump is run during cooling, dry and fan.
	FREE STOP	1	The louver can stop at any position.	14 S FAN REMAINING	IND REMAINING O	After cooling is stopped is OFF, the fan does not perform extra operation.
115 I NODEL TYPE		1 377	1		0.5 HOUR	After cooling is stopped is OFF, the fan perform extra operation for half an hour.
15 MODEL TYPE	HEAT PUMP	*	1			After cooling is stopped is OFF, the fan perform extra operation for an hour.
	COOLING ONLY	* *	1		1 HOUR	After cooling is stopped is OFF, the fan periodin extra operation for all flour.
15 MODEL TYPE 16 EXTERNAL CONTROL SET	COOLING ONLY	*	If you input signal into CnT of the indoor printed circuit board from external the	15 1% FAN REMAINUNG	6 HOUR	After cooling is stopped is OFF, the fair perform extra operation for air hour. After cooling is stopped is OFF, the fair perform extra operation for six hours.
	INDIVIDUAL		If you input signal into CnT of the indoor printed circuit board from external, the indoor unit will be operated independently according to the input from external.	15 * FAN REMAINING	6 HOUR O O	After cooling is stopped is OFF, the fan perform extra operation for six hours. After heating is stopped or heating thermostat is OFF, the fan does not perform extra operation
	COOLING ONLY	*	If you input signal into CnT of the indoor printed circuit board from external, the modor unit will be operated independently according to the input from external. If you input first CNT of the indoor printed circuit board from external all units which	15 ** FAN REMAINING	6 HOUR NO REMAINING O.5 HOUR	After cooling is stopped is OFF, the fan perform extra operation for six hours. After heating is stopped or heating thermostat is OFF, the fan does not perform extra operation. After heating is stopped or heating thermostat is OFF, the fan perform extra operation for half a
	INDIVIDUAL	*	If you input signal into CnT of the indoor printed circuit board from external, the indoor unit will be operated independently according to the input from external. If you input in CnT of the indoor printed circuit board from external, all units which connect to the same remote control are operated according to the input from external.		6 HOUR O O	After cooling is stopped is OFF, the fan perform extra operation for six hours. After heating is stopped or heating thermostat is OFF, the fan does not perform extra operation. After heating is stopped or heating thermostat is OFF, the fan perform extra operation for half a After heating is stopped or heating thermostat is OFF, the fan perform extra operation for two the
16 EXTERNAL CONTROL SET	COOLING ONLY INDIVIDUAL FOR ALL UNITS	*	If you input into CNT of the indoor printed circuit board from external, all units which connect to the same remote control are operated according to the input from external.	15 ** FAN REMAINING	6 HOUR NO REMAINING 0.5 HOUR 2 HOUR 6 HOUR	After cooling is stopped is OFF, the fan perform extra operation for six hours. After heating is stopped or heating thermostat is OFF, the fan does not perform extra operation. After heating is stopped or heating thermostat is OFF, the fan perform extra operation for half a
16 EXTERNAL CONTROL SET	COOLING ONLY INDIVIDUAL FOR ALL UNITS	*	If you input into CNT of the indoor printed circuit board from external, all units which connect to the same remote control are operated according to the input from external. In normal working indication, indoor unit temperature is indicated instead of air flow.		IN OR REPORTED TO SHOUR IN OR REPORTED TO SHOUR 2 HOUR IN OR REPORTED TO SHOUR IN OR REPORTED TO SHOUR	Alter cooling is stopped is OFF, the fan perform extra operation for six hours. Alter heating is stopped or healting thermostat is OFF, the fan does not perform extra operation. After heating is stopped or healting thermostat is OFF, the nation extra operation for half and Alter heating is stopped or heating thermostat is OFF, the fan perform extra operation for two halter heating is stopped or heating thermostat is OFF, the fan perform extra operation for two halter heating is stopped or heating thermostat is OFF, the fan perform extra operation for six h
16 EXTERNAL CONTROL SET	INDIVIDUAL FOR ALL UNITS INDICATION OFF INDICATION ON	*	If you input into CNT of the indoor printed circuit board from external, all units which connect to the same remote control are operated according to the input from external.		6 HOUR NO REMAINING 0.5 HOUR 2 HOUR 6 HOUR	After cooling is stopped is OFF, the fan perform extra operation for six hours. After heating is stopped or heating thermostat is OFF, the fan does not perform extra operation. After heating is stopped or heating thermostat is OFF, the fan perform extra operation for half and After heating is stopped or heating thermostat is OFF, the fan perform extra operation for two halter heating is stopped or heating thermostat is OFF, the fan perform extra operation for six halter heating is stopped or heating thermostat is OFF, the fan perform extra operation for six halter heating is stopped or heating thermostat is OFF, the fan perform intermittent operation with tow that operated after twenty minutes? OFF.
16 EXTERNAL CONTROL SET	INDIVIDUAL FOR ALL UNITS INDICATION OFF INDICATION ON	*	If you injust into CNT of the indoor printed circuit board from external, all units which connect to the same remote control are operated according to the injust from external. In normal working indication, indoor unit temperature is indicated instead of air flow. (Only the master remote control can be indicated.)		IN OR REPORTED TO SHOUR IN OR REPORTED TO SHOUR 2 HOUR IN OR REPORTED TO SHOUR IN OR REPORTED TO SHOUR	After cooling is stopped is OFF, the fan perform extra operation for six hours. After heating is stopped or heating thermostal is OFF, the fan does not perform extra operation. After heating is stopped or heating thermostal is OFF, the fan perform extra operation for half a After heating is stopped or heating thermostal is OFF, the fan perform extra operation for his no half her heating is stopped or heating thermostal is OFF, the fan perform extra operation for his no half her heating is stopped or heating thermostal is OFF, the fan perform intermittent operation with low this speed after twenty minutes' OFF. During heating is stopped or heating thermostal is OFF, the fan perform intermittent operation with low this speed after twenty minutes' OFF.
16 EXTERNAL CONTROL SET 17 ROW HIPP IMPOSITION SET 18 JOHNSTON TO THE PROPERTY OF THE PROPER	INDIVIDUAL FOR ALL UNITS INDICATION OFF INDICATION ON	*	If you input into CNT of the indoor printed circuit board from external, all units which connect to the same remote control are operated according to the input from external. In normal working indication, indoor unit temperature is indicated instead of air flow.	16 XX FAN INTERNUTTENCE	G HOUR NO REHAINING O.S HOUR 2 MOUR G HOUR NO REHAINING coninoff swindn	After cooling is stopped is OFF, the fan perform extra operation for six hours. After heating is stopped or heating thermostat is OFF, the fan does not perform extra operation. After heating is stopped or heating thermostat is OFF, the fan perform extra operation for half and After heating is stopped or heating thermostat is OFF, the fan perform extra operation for two halter heating is stopped or heating thermostat is OFF, the fan perform extra operation for six halter heating is stopped or heating thermostat is OFF, the fan perform extra operation for six halter heating is stopped or heating thermostat is OFF, the fan perform intermittent operation with tow that operated after twenty minutes? OFF.
16 EXTERNAL CONTROL SET	INDIVIDUAL FOR ALL UNITS INDICATION OFF INDICATION ON	*	If you injust inlo CNT of the indoor printed circuit board from external, all units which connect to the same remote control are operated according to the injust from external. In normal working indication, indoor unit temperature is indicated instead of air flow. (Only the master remote control can be indicated.) Heating preparation indication should not be indicated.		IN REPAINING OUS PROF	After cooling is stopped is OFF, the fan perform extra operation for six hours. After healing is stopped or healing thermostal is OFF, the fan does not perform extra operation for half after healing is stopped or healing thermostal is OFF, the fan perform extra operation for half after healing is stopped or healing thermostal is OFF, the fan perform extra operation for six half her healing is stopped or healing thermostal is OFF, the fan perform extra operation for six hours have been seen to be sufficient to the six of t
16 EXTERNAL CONTROL SET 17 ROW HIPP IMPOSITION SET 18 JOHNSTON TO THE PROPERTY OF THE PROPER	INDIVIDUAL FOR ALL UNITS INDICATION OFF INDICATION ON	*	If you injust the CNT of the indoor printed circuit board from external, all units which connect to the same remote control are perstand according to the injust from external. In normal working indication, indoor unit temperature is indicated instead of air flow. (Only the master remote control can be indicated.) Heating preparation indication should not be indicated. Temperature indication is by degree C.	16 XX FAN INTERNUTTENCE	G HOUR NO REMAINING OLS NOR 2 HOUR G HOUR C HOUR C HOUR C HOUR C HOUR Soul-OFF swinGN sminOFF swinGN	After cooling is stopped is OFF, the fan perform extra operation for six hours. After heating is stopped or heating thermostal is OFF, the fan does not perform extra operation. After heating is stopped or heating thermostal is OFF, the fan perform extra operation for half a After heating is stopped or heating thermostal is OFF, the fan perform extra operation for his no half her heating is stopped or heating thermostal is OFF, the fan perform extra operation for his no half her heating is stopped or heating thermostal is OFF, the fan perform intermittent operation with low this speed after twenty minutes' OFF. During heating is stopped or heating thermostal is OFF, the fan perform intermittent operation with low this speed after twenty minutes' OFF.
16 EXTERNAL CONTROL SET 17 ROW HIPP IMPOSITION SET 18 JOHNSTON TO THE PROPERTY OF THE PROPER	INDIVIDUAL FOR ALL UNITS INDICATION OFF INDICATION ON	*	If you injust inlo CNT of the indoor printed circuit board from external, all units which connect to the same remote control are operated according to the injust from external. In normal working indication, indoor unit temperature is indicated instead of air flow. (Only the master remote control can be indicated.) Heating preparation indication should not be indicated.	16 XX FAN INTERNUTTENCE	IN REPAINING OUS PROF	After cooling is stopped is OFF, the fan perform extra operation for six hours. After healing is stopped or healing thermostal is OFF, the fan does not perform extra operation for half after healing is stopped or healing thermostal is OFF, the fan perform extra operation for half after healing is stopped or healing thermostal is OFF, the fan perform extra operation for six half her healing is stopped or healing thermostal is OFF, the fan perform extra operation for six hours have been seen to be sufficient to the six of t

How to set function

Stop air-conditioner and press (SET) (MODE) buttons at the same time for over three seconds, and the
"FUNCTION SET ▼" will be displayed.



- 2. Press (SET) button.
- Make sure which do you want to set, "

 FUNCTION ▼"

 (remote control function) or "I/U FUNCTION ▲" (indoor unit function).
- Press ▲ or ▼ button.
 Selecct [®] FUNCTION ▼ " (remote control function) or "I/U FUNCTION ▲ " (indoor unit function).



5. Press (SET) button.

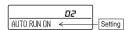
- 6. [On the occasion of remote control function selection]
 - ① "DATA LOADING" (Indication with blinking)

 ↓

 Display is changed to "01 ₺₩₩ €\$₽ \$€Ţ".
 - Press ▲ or ▼ button. *No. and function*are indicated by turns on the remote control function table, then you can select from them. (For example)



Press ()(SET) button. The current setting of selected function is indicated. (for example) "AUTO RUN ON" — If "02 AUTO RUN SET" is selected



Press or button. Select the setting.



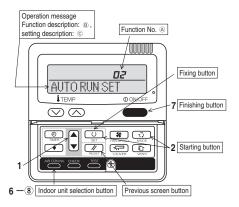
⑤ Press 〇 (SET)

"SET COMPLETE" will be indicated, and the setting will be completed.

Then after "No. and function" indication returns, Set as the same procedure if you want to set continuously ,and if to finish, go to 7.



7. Press ON/OFF button. Setting is finished.



[On the occasion of indoor unit function selection]

"DATA LOADING" (Blinking for 2 to 23 seconds to read the data)
 Indication is changed to "02 FAN SPEED SET".
 Go to ②.

[Note]

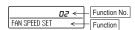
 If plural indoor units are connected to a remote control, the indication is "I/U 000" (blinking) ← The lowest number of the indoor unit connected is indicated.



- (2) Press ▲ or ▼ button. Select the number of the indoor unit you are to set If you select "ALL UNIT ▼", you can set the same setting with all unites.
- (3) Press (SET) button.
- ② Press ▲ or ▼ button.

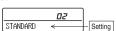
"No. and function" are indicated by turns on the indoor unit function table, then you can select from them.

(For example)



③ Press O (SET) button.

The current setting of selected function is indicated. (For example) "STANDARD" ← If "02 FAN SPEED SET" is selected.



- ④ Press ▲ or ▼ button. Select the setting.
- Press (SET) button. "SET COMPLETE" will be indicated, and the setting will be completed.

Then after "No. and function" indication returns, set as the same procedure if you want to set continuously , and if to finish, go to 7.



When plural indoor units are connected to a remote control, press the AIR CON No. button, which allows you to go back to the indoor unit selection screen. (example ¹I/U 000 ▲¹)

- It is possible to finish by pressing ON/OFF button on the way, but unfinished change of setting is unavailable.
- During setting, if you press (RESET) button, you return to the previous screen.
- $\,\cdot\,$ Setting is memorized in the control and it is saved independently of power failure.

[How to check the current setting]

When you select from "No. and funcion" and press set button by the previous operation, the "Setting" displayed first is the current setting.

(But, if you select "ALL UNIT f v", the setting of the lowest number indoor unit is displayed.)

1.10.4 Installation of outdoor unit Models FDC100-140VNA-W, 100-140VSA-W

PSC012D120A 🛕

Inverter driven split PAC 100, 125, 140 VNA-W 100, 125, 140 VSA-W Designed for R32 refrigerant

This installation manual deals with outdoor units and general installation specifications only. For indoor units, refer to the respective installation manuals supplied with the units.
When install the unit, be sure to check whether the selection of installation place, power source specifications, usage limitation (piping length, height differences between indoor and outdoor units, power source voltage and etc.) and installation spaces

SAFETY PRECAUTIONS

- We recommend you to read this "SAFETY PRECAUTIONS" carefully before the installation work in order to gain full advantage of the functions of the unit and to avoid malfunction due to mishandling.
- The precautions described below are divided into MARNING and MCAUTION. The matters with possibilities leading to serious consequences such a death or serious personal injury due to erroneous handling are listed in the MARNING and the matters with possibilities leading to personal injury or damage of the unit due to erroneous handling including probability leading to serious consequences in some cases are listed in CAUTION. These are very important precautions for safety. Be sure to observe all of them without fail.
- The meaning of "Marks" used here are as shown below.

Never do it under any circumstance. Always do it according to the instruction

- For 3 phase power source outdoor unit, EN61000-3-2 is not applicable if consent by the utility company or nortification to the utility company is given before usage.

 3 phase power source unit, both indoor and outdoor, is suitable for installation in a commercial and light industrial environment. If installed as a house-hold appliance it could cause electromagnetic interference.

 5 and 6 HP units of single phase power source are equipment complying with IEC 61000-3-12.

 Be sure to confirm no anomaly on the equipment by commissioning after completed installation and explain the operating methods as well as the maintenance methods of this equipment to the user according to the owner's manual.

 6 Keep the installation manual together with owner's manual at a place where any user can read at any time. Moreover if necessary, ask to hand them to a new user

(Check before installation work)

- Model name and power source
- Refrigerant piping length
 Piping, wiring and miscellaneous small parts
- Indoor unit installation manual

<u> </u>						
 Installation must be carried out by the qualified installer. If you install the system by yourself, it may cause serious trouble such as water leaks, electric shocks, fire and personal injury, as a result of a system mailturction. 	Tighten the flare nut by using double spanners and torque wrench according to prescribed method. Be sure not tighten the flare nut too much. The flare nut too much use the flare part by tightening with excess torque can cause burst or refrigerant leaks we may result in lack of one. The flare nut by using the flare nut by tightening with excess torque can cause burst or refrigerant leaks we may result in lack of one.					
 Install the system in full accordance with the instruction manual. Incorrect installation may cause bursts, personal injury, water leaks, electric shocks and fire. 	Do not open the service valves for liquid line and gas line until completed refrigerant piping work, air tightness					
 Use the original accessories and the specified components for installation. If parts other than those prescribed by us are used, it may cause fall of the unit, water leaks, electric shocks, fire, refrigerant leak, substandard performance, control failure and personal lighty. 	and evacuation. If the compressor is operated in state of opening service valves before completed connection of refrigerant piping work, may incur frost bite or injury from an abrupt refrigerant outflow and air can be sucked into refrigerant circuit, which can co burst or personal injury due to annoalously high pressure in the refrigerant.					
 When installing in small rooms, take prevention measures not to exceed the density limit of refrigerant in the event of leakage accordance with ISOS149. Consult the expert about prevention measures. If the density of refrigerant exceeds the limit in the event of leakage, lack of oxygen can occur, which 	Only use prescribed option parts. The installation must be carried out by the qualified installer. If you install the system by yourself, it can cause serious trouble such as water leaks, electric shocks, fire.					
can cause serious accidents. Ventilate the working area well in the event of refrigerant leakage during installation. If the refriorant comes into contact with naked flames, poisonous gas is produced.	 Do not perform any change of protective device itself or its setup condition The forced operation by short-circuiting protective device of pressure switch and temperature controller or the use of specified component can cause fire or burst. 					
After completed installation, check that no refrigerant leaks from the system. If refrigerant leaks into the room and comes into contact with an oven or other hot surface, poisonous gas is produced.	Be sure to switch off the power source in the event of installation, inspection or servicing. If the power source is not shut off, there is a risk of electric shocks, unit failure or personal injury due to the unexpected start or					
• Hang up the unit at the specified points with ropes which can support the weight in lifting for portage. And to avoid joiting out of alignment, be sure to hang up the unit at 4-point support.	Consult the dealer or an expert regarding removal of the unit. Incorrect installation can cause water leaks, electric shocks or fire.					
An improper manner of portage such as 3-point support can cause death or serious personal injury due to falling of the unit I install the unit in a location with good support. Unsuitable inclaidation locations can cause the unit to fall and cause material damage and personal injury.	Stop the compressor before closing valve and disconnecting refrigerant pipes in case of pump down operation. If disconnecting refrigerant pipes in state of opening service valves before compressor stopping, you may incur frost bi injury from an abrupt refrigerant outflow and air can be sucked, which can cause burst or personal injury due to anomal high oressure in the refrigerant cruttle.					
 Ensure the unit is stable when installed, so that it can withstand earthquakes and strong winds. Unsuitable installation locations can cause the unit to fall and cause material damage and personal injury. 	Be sure to wear protective goggles and gloves while at work.					
The electrical installation must be carried out by the qualified electrician in accordance with "the norm for electrical work" and "national wiring regulation", and the system must be connected to the dedicated circuit.	● This unit is designed specifically for R32. Using any other refrigerant can cause unit failure and personal injury.					
Power source with insufficient capacity and incorrect function done by improper work can cause electric shocks and fire, Be sure to shut off the power before starting electrical work. Failure to shut off the power can cause electric shocks, unit failure or incorrect function of equipment.	Ensure that no air enters in the refrigerant circuit when the unit is installed and removed. If air enters in the refrigerant circuit, the pressure in the refrigerant circuit becomes too high, which can cause burst personal injury.					
Be sure to use the cables conformed to safety standard and cable ampacity for power distribution work. Unconformable cables can cause electric leak, anomalous heat production or fire.	Do not run the unit with removed panels or protections Touching rotating equipments, hot surfaces or high voltage parts can cause personal injury due to entrapment, burn or eleshocks					
 Use the prescribed cables for electrical connection, tighten the cables securely in terminal block and relieve the cables correctly to prevent overloading the terminal blocks. Loses connections or cable mountings can cause anomalous heat production or fire. 	SROCKS. Be sure to fix up the service panels. Incorrect fixing can cause electric shocks or fire due to intrusion of dust or water.					
Arrange the wiring in the control box so that it cannot be pushed up further into the box. Install the service panel correctly. Incorrect installation may result in overheating and fire.	Do not perform any repairs or modifications by yourself. Consult the dealer if the unit requires repair. If you repair or modify the unit, it can cause water leaks, electric shocks or fire.					
Do not perform brazing work in the airtight room It can cause lack of oxygen.	Do not process or splice the power cord, or share the socket with other power plugs. This may cause fire or electric shock due to defecting contact, defecting insulation and over-current etc.					
 Use the prescribed pipes, flare nuts and tools for R32 and R410A. Using existing parts (for R22 or R407C) can cause the unit failure and serious accidents due to burst of the refrigerant circuit. 	Do not bundle or wind or process the power cord. Do not deform the power cord by treading it. This may cause fire or heating					

Carry out the electrical work for ground lead with care Do not connect the ground lead to the gas lies, water lies, lighting conductor or telephone line's ground lead, incorned grounding can cause unit faults such as electric placks are to soft victorizable, where connect the grounding wise to a gas pipe because if gas leads. If could cause explosion or ignition. The limit is the place of all pole with cornect capacity. Using the incornect count treate, for cause the unit malitarizable and fire. In this listedar for electromect switch on the power source wiring in accordance with the local codes and regulations. The listedar solidate located in accordance with 1800-05. The listedar solidate located with 1800-05. The listedar solidate located in accordance with 1800-05. The listedar solidate located in 1800-05. The listedar solidate located locat CAUTION Do not use the base flame for outdoor unit which is corroded or damaged due to long periods of operation Using an old and damage base flame can cause the unit falling down and cause personal injury. • Using an old and damage lasse filmer can cause the util faling down and cause personal injury. Do not install the write in the locations ledet below Locations where note in the locations ledet below Locations where note in the locations ledet the unit such as supplied gas, childred gas, acid and alkalif Vehicles and ships Locations where out systemace that can alke the unit such as supplied gas, acid and alkalif Vehicles and ships Locations where out several sprays are often used. Locations where any machines which generate high frequency harmonics are used. Locations where any machines which generate high frequency harmonics are used. Locations with the ships depress such as cossilines Locations with the unit is supposed to charmy similar Locations with minimal residency and the ships of 0 and damage of components, malfunction and fire It can cause remarkable decreases in performance, corroson and damage of components, malturction and fire. © Do not install the outdoor will in the locations listed below. Locations where discharged both air or operating sound of the outdoor unit can bother neighborhood. Locations where obtained and the outdoor will be self-ently on an armate of pains. The outful air can affect adversely to the plant etc. Locations where obtained and operation sound operated by the outdoor unit can affect seriously, (on the wall or at the place near bed room) Locations where without and operation sound operated by the outdoor unit can affect seriously, (on the wall or at the place near bed room) Locations where an equipment affected by high harmonics is placed. (If yet or radio receiver is placed within 5m) Locations where drainage cannot run off safely, Locations where ordinained performance. Act causes a claim © Do not use the unit for appectal purposes such as storing foods, cooling precision instruments and preservation of animals, plants or art. Locations the demange of the factor. It can utilitie recover a theory © Do not touch any designant pipes with your hands when the system is in operation. During operation the enfigerant pipes become extremely hot or extremely cold depending the operating condition, and it can cause burn injury or frost injury. © Do not clean up the unit with water It can cause electric shoots or Do not operate the outdoor unit with any article placed on it. You may incur properly damage or personal injure from a fail of the article Do not step onto the outdoor unit. You may incur injury from a drop or fail. Do not touch the suction or aluminum fin on the outdoor unit. Do not install nor use the system close to the equipment that generalse electromagnetic fields or high frequency harmonics Equipment such as investigations, study generators, metical high frequency explanets and the incommunication equipments can affect the system, and cause malturations and healedowns. The system can also affect medical equipment and telecommunication equipment, and obstanct its function or cause jamming.

Notabilia as a unit designed for R32

- Do not use any refrigerant other than R32. R32 will rise to pressure about 1.6 times higher than that of a conventional refrigerant (R22 or R407C).
 A cylinder containing R32 has a light blue indication mark on the top.
 A unit designed for R32 has adopted a different size indoor unit to prevent size indoor unit operation valve charge port and a different size check joint provided in the unit to prevent the charging of a wrong refrigerant by mistake. I processed dimension of the flared part of a refrigerant pipe and a flare nut's parallel side measurement have also been altered to raise strength against pressure. Accordingly, you are required to arrange dedica R32 tools listed in the table on the right before installing or servicing this unit.

 All indoor units must be models designed exclusively for R32. Check connectable indoor unit models in a catalog, etc. (A wrong indoor unit, if connected into the system, will impair proper system operation)

	Dedicated R32 and R410A tools
a)	Gauge manifold
b)	Charge hose
c)	Electronic scale for refrigerant charging
d)	Torque wrench
e)	Flare tool
f)	Protrusion control copper pipe gauge
g)	Vacuum pump adapter
h)	Gas leak detector
	b) c) d) e) f)

1. HAULAGE AND INSTALLATION (Take particular care in carrying in or moving the unit, and always perform such an operation with two or more persons.)

ACAUTION When a unit is hoisted with slings for haulage, take into consideration the offset of its gravity center position. If not properly balanced, the unit can be thrown off-balance and fall.

1) Delivery

Deliver the unit as close as possible to the installation site before removing it from the packaging.

When some compelling reason necessitates the unpacking of the unit before it is carried in, use nylon shings or protective wood pieces so as not to damage the unit by prope slitting it.

3) Selection of installation location for the outdoor unit

Selection of installation location for the outdoor unit

Be sure to select a suitable installation place in consideration of following conditions.

A place where it is horizontal, stable and can endure the unit weight and will not allow vibration transmittance of the unit.

A place where it can be free from possibility of othering neighbors due to noise or exhaust air from the unit.

A place where it can be free from danger of flammable gas leakage.

A place where it can be free from danger of flammable gas leakage.

A place where it can be free from danger of flammable gas leakage.

A place where show will not accumulate.

A place where show will not accumulate.

A place where show will not accumulate.

A place where chemical subdames in the secure, and enough service space can be secured for maintenance and service of the unit safely.

A place where chemical subdames like sulture gas, choicing as, acid and alkall (including ammonia), which can harm the

A place where chemical subdames like sulture gas, choicing as, acid and alkall (including ammonia), which can harm the

A place where strong wind will not blow against the cutted air blow of the unit.

Do not install the unit in places which exposed to sea breeze (e.g. coastal area).

Cautions, about scalescing of increalition requirements in continue of the control of

4) Caution about selection of installation location

(i) If the unit is installed in the area where the snow will accumulate, following me
The bottom plate of unit and intake, outlet may be blocked by snow.

Install the unit on the base so
that the bottom is higher than
snow cover surface.

Regarding outline of a snow
hood, consult a dealer. res are required.





Since drain water generated by defrost control may freeze, following measures are required.

Don't execute drain pining work by using a drain elbow and drain grommets (option parts), Refer to DRAIN PIPING WORK.]

Pleacomment setting plertos Control (SW3-1) and Stown Guard Fan Control (SW3-2), Refer to DRAIN PIPING WORK.]

Attach heater on a base plate on site. If there is possibility to freeze drain water.

In case that the product has a corrective drainage system, the drainage paths should have suitable measure against freezing but be sure not to melt the material of drainage paths with heat.

2) If the unit can be affected by strong wind, following measures are required.

Strong wind can cause damage of fan flam motor), or can cause performance degradation, or can trigger anomalous stop of the unit due to rising of thigh pressure.

1.Install the outlet air blow side of the unit to face a wall of building, or and the control of wind.

5.The unit should be installed on provide a fence or a windbreak screen.

1.Install the outlet air blow side of the control of wind.

1.Install the outlet air blow side of the control of wind.

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1.Install the outlet will be stable and level foundation. If the foundation is not level, the control of wind.







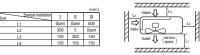


2) Portage

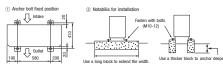
• The right hand side of the unit as viewed from the front (diffuser side) is heavier. A person carrying the right hand side must take heed of this fact. A person carrying the left hand side must hold with his right hand the handle provided on the front panel of the unit and with his left hand the corner column section.



5) Installation space



6) Installation



- In installing the unit, fix the unit's legs with bolts specified on the left.

 The profrusion of an anchor bolt on the front side must be kept within 15 mm.

 Sceurely install the unit so that if does not fall over during earthquakes or strong winds, etc.

 Refer to the left illustrations for information regarding concrete foundations.

 Install the unit in a level area. (With a parallent of 5 mm or less)

 Improper installation can result in a compressor failure, broken piping within the unit and abnormal noise generation

7) To run the unit for a cooling operation, when the outdoor temperature is -5°C or lower.

• When the outdoor air temperature is -5°C or lower, provide a snow hood to the outdoor unit on site, so that strong wind will not blow against the outdoor heat exchanger directly. Regarding outline of a snow hood consult a dealer.

< Single type >

< Twin type

< Triple type B >

2. REFRIGERANT PIPING WORK

1) Restrictions on unit installation and use

Check the following points in light of the indoor unit specifications and the installation site.
 Observe the following restrictions on unit installation and use. Improper installation can result in a compressor failure or performance degrad

		Marks appearing in the drawing					
Resitrictions	One-way pipe length difference from the first branching po	int to the indoor	unit		< 3m	≥ 3m	
nesuluuis	Model for outdoor units	Dimensional restrictions	Single type	Twin type	Triple type A	Triple type B	
A	100VNA,125VNA,100VSA,125VSA		L	L+L1+L2	L+L1+L2+L3		
One-way pipe length of refrigerant piping	140VNA, 140VSA	≨ 50m				L+L1+L2+L3	
	100VNA,125VNA,100VSA,125VSA				-	-	
Main pipe length	140VNA, 140VSA	≨ 50m	-	L I	L	L	
One-way pipe length between the first branching point from to the second branching point	140VNA, 140VSA	≦ 5m	-	-	-	La	
One-way pipe length after the first branching point	All Models		-	L1 L2	_	-	
une-way pipe length after the first branching point	140VNA, 140VSA	≤ 30m		LI,LZ	L1, L2, L3	L1 (t)	
One-way pipe length from the first branching point to indoor units through the second branching point	140VNA, 140VSA	≤ 27m	-	-	-	La+L2, La+L3 (1)	
One-way pipe length difference from the first branching	All Models	≤ 10m		IL1-L2I	_	-	
one-way pipe length difference from the first branching point to the indoor unit	140VNA, 140VSA	≤ 3m	-		L1-L2 , L2-L3 , L3-L1		
	140VBR, 140VBR	≤ 10m			_	L1-(La+L2),L1-(La+L3) (1)	
One way pipe length difference from the second branching point to the indoor unit	140/MA, 140VSA	≤ 10m	-	-	-	L2-L3	
Bevation difference between indoor and outdoor units	When the outdoor unit is positioned higher,	≤ 50m (a)	н	н	н	н	
	When the outdoor unit is positioned lower,	≤ 15m	н	н	н	. "	
Bevation difference between indoor units		≤ 0.5m	-	h	h1.h2.h3	h1.h2.h3	

△CAUTION

- The use restrictions appearing in the table above are applicable to the standard pipe size combinations shown in the table below. Where an existing pipe system is utilized, different one-way pipe length restrictions should apply depending on its pipe size. For more information, see "6. UTILCATION OF EXISTING PIPMS."

 With the triple pipe connection, the way of use is different when the difference of one-way pipe length after the first branching point is 3m to 10m. For details, refer to the above table and right figure.

 Note (1) isstall the indoor units to that L + L1 becomes the longest one-way pipe.
- (1) initial the motion that is so that it is to become an entries of enterly pipe.

 Keep the pipe length difference between L1 and (La + L2) or (La + L3) within 10m.

 (2) When the outdoor unit is installed at a position higher than the indoor unit by 30m or more, set SW5-2 on the control PCB to ON.

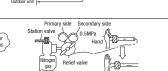
2) Determination of pipe size • Determine refrigerant pipe size pursuant to the fol

iping (Main pipe L pe set ciping (branch pipe L1,L2) Branching pipe set Refrigerant piping (branch pipe L1,L2,L3) In the case of a triple type A DIS-WA1G φ12.7 φ12.7

∆CAUTION

Object in the control of the control About brazing

Plug the end of the pipe with tape, or other material, and fill the pipe with nitrogen gas. Only use nitrogen gas (N2)



3) Refrigerant pipe wall thickness and material

Brazing must be performed under a nitrogen gas flow.

Without nitrogen gas, a large quantity of foreign matters (oxidized film) are created, causing a critical failure from capillary tube or expansion valve clo

• Select refrigerant pipes of the table shown on the right wall thickness and material as specified for each pipe size.

• This unit uses R32. Always use 1/2H pipes having a 1.0mm or thicker wall for \$\phi\$1.05 or larger pipes, because 0-type pipes do not meet the pressure resistance requirement.



NOTE

4) On-site piping work ⚠IMPORTANT Alke care so that installed pipes may not touch components within a unit. If touching with an internal component, it will generate abnormal sounds and/or vibrations. How to remove the service panel First remove the five screws (x mark) of the service panel and push it down into the direction of the arrow mark and then remove it by pulling it toward you. The pipe can be laid in any of the following directions: side right, front, rear and downward. Remove a knock-out plate provided on the pipe penetration to open a minimum necessary area. Please close the gap of piping connecting part with putty or insultation material (locally procured) after piping connection. Small animals or insects may intrude into the outdoor unit and it will cause electrical short. Carry out the on site piping work with the operation valve fully closed. Give sufficient protection to a pipe end (compressed and biazed, or with an adhesive tape) so that water or foreign matters may not enter For front • United sumicient protection to a pipe end (compressed and oraze, or with an adnessive taple) so mat water or foreign maters may not enter the piping. • Bend a pipe to a radius as large as practical.(R100-R150) Do not bend a pipe repeatedly to correct its form. • Flare connection is used between the unit and erfligerant pipe. Flare a pipe after engaging a flare nut onto it. Flare dimensions for R32 are different from those for conventional R22 and R407C. Although we recommend the use of flaring tools designed specifically for R32, conventional flaring tools can also be used by adjusting the measurement of profrusion B with a profrusion control gauge. **Do not reuse existing flare, make new flare. • The pipe should be anchored every 1.5m or less to isolate the vibration. • Tighten a flare joint securely with a double spanner. **⚠** CAUTION Do not apply force beyond proper fastening torque in tightening the flare nut. Fix both liquid and gas service valves at the valve main bodies as illustrated on the right, and then fasten them, applying appropriate fastening torque. Do not apply refrigenting machine oil to the filered variace, it can cause refrigerant leakage. Use a torque wrench Hold the hexagon part 5) Air tightness test All trught offices rest. All though outdoor and indoor units themselves have been tested for air tightness at the factory, check the connecting pipes after the installation work for air tightness from the service valve's check joint equipped on toutdoor unit side. While conducting a test, keep the service valve shut all the time. A flaste the pressure to 1.5 MPa, and stop. Leave it for five minutes to see if the pressure drops. b) Then riske the pressure to 1.5 MPa, and stop. Leave it for five minutes to see if the pressure drops. c) Then riske the pressure to 1.5 MPa, and stop. Leave it for five minutes to see if the pressure drops. c) Then riske the pressure the specified level 4.15 MPa, and record the ambient temperature and the pressure. d) If no pressure drop is observed with an installation pressurated to the specified level and left for about one day, it is acceptable. When the ambient Temperature fall 1°C, the pressure also fall approximately 0.01 MPa. The pressure, if changed, should be compensated for the pressure also fall approximately 0.01 MPa. e) If a pressure drop is observed in checking a) -(1), a leak exists somewhere. Find a leak by applying bubble test liquid to welded parts and flare points and flare points and repair it. After repair, conduct an air-tightness test again. \odot (2) In conducting an air-tightness test, use nitrogen gas and pressurize the system with nitrogen gas from the gas side. Do not use a medium other than nitrogen gas under any circumstances Airtighteness test completed 6) Evacuation Vacuuming begins Pay attention to the following points in addition to the above for Work flow > When the system has remaining moisture inside or a leaky point, the vacuum gauge indicator will rise. Check the system for a leaky point and then draw air to create a vacuum again. Run the vacuum pump for at least one hour after the vacuum gauge shows -101kPa or lower. (725mmitig or lower) Confirm that the vacuum gauge indicator does not rise even if the system is left for one hour or more. the R32 and compatible machines. 7) Additional refrigerant charge Fill refrigerant (1) Calculate a required refrigerant charge volume from the following table. <Twin, triple type: ddificiant charge volume (kg) per meter of refrigerant piping (liquid pipe) Refrigerant volume charged for shipment at the factory (kg) <Single type> Installation's pipe length (m) covered without additional refrigerant charge Additional charge volume (kg) Refrigerant volume per meter of refrigerant piping (liquid pipe) Installation's pipe length (m) covered without additional refrigerant charge Main pipe Branch pipe Capacity 100VNA-140VNA 100VSA-140VSA 100VNA-140VNA 100VSA-140VSA This unit contains factory charged refrigerant covering 30m of refrigerant piping and additional refrigerant charge on the installation site is not required for an installation with up to 30m refrigerant piping When refrigerant piping exceeds 30m, additionally charge an amount calculated from the pipe length and the above table for the portion in excess of 30m. If an existing pipe system is used, a required refrigerant charge volume will vary depending on the liquid pipe size. For further information, see "6. UTILIZITION OF EXISTING PIPING." Formula to calculate the volume of additional refrigerant required Additional charge volume (kg) = { Main pipe length (m) - Length covered without additional charge 30 (m) } x 0.054 (kg/m) + Total length of branch pipes (m) x 0.054 (kg/m) and additional charge volume calculation result is negative, it is not necessary to charge refrigerant additionally. (2) Charging refrigerant 2) Charging retrigerant. Since R32 refrigerant must be charged in the liquid phase, you should charge it, keeping the container cylinder upside down or using a retrigerant cylinder equipped with a siphon tube. Charge refrigerant always from the liquid side service port with the service valve shut. When you find it difficult to charge a required amount, fully open the outdoor unit valves on both liquid and gas sides and charge refrigerant from the gas (suction) side service port, while running the unit in the cooling mode. In doing so, care must be taken so that refrigerant may be discharged from the cylinder in the liquid phase all the time. When the cylinder valve is throttled down or a dedicated conversion tool to change liquid-phase refrigerant into mist is used to protect the compressor, however, adjust charge conditions so that refrigerant will gasify upon entering the unit. In charging refrigerant, always, charge a calculated volume by using a scale to measure the charge volume. When refrigerant is charged with the unit being run, complete a charge operation within 30 minutes. Running the unit with an insufficient quantity of refrigerant for a long time can cause a compressor failure. NOTE Put down the refrigerant volume calculated from the pipe length onto the caution label attached on the back side of the service panel. Pipe cover (accessory) 8) Heating and condensation prevention

(1) Dress refrigerant pipes (both gas and liquid pipes) for heat insulation and prevention of dew condensation.

(2) Use a heat insulating material that can withstand 120°C or a higher temperature. Poor heat insulating capacity can cause heat insulation problems or cable deterioration.

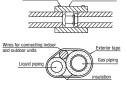
- Improper heat insulation—thee dressing can result in a valer leak or dripping causing damage to household effects, etc.

- All gas pipes must be securely heat insulated in order to prevent damage from dripping vater that comes from the condensation formed on them during a cooling operation or personal injury from burns because their surface can reach quite a high temperature due to discharged gas flowing inside during a heating operation.

- Wrap indoor units' flare joints with heat insulating parts (pipe cover) for heat insulation both gas and liquid pipes).

- Give heat insulation to both gas and liquid side pipes. Bundle a heat insulating material and a pipe tightly together so that no gaps may be left between them and wrap them together with a connecting cable by a dressing tape.

- Although it is verified in a test that this air-conditioning unit shows satisfactory performance under JS condensation test conditions, both gas and liquid pipes need to be dressed with 20 mm or thicker heat insulation materials above the ceiling where relative humidity exceeds 70%.



3. DRAIN PIPING WORK

Execute drain piping by using a drain elbow and drain grommets supplied separately as ontion parts, where water drained from the outdoor unit is a problem.

as option parts, where valer drained from the outdoor unit is a problem.

*Water may drip where there is a larger amount of drain vater. Seal around the drain elbow and drain grownness with burth or adequate caulking material.

*Condensed water may flow out from vicinity of service valve or connected pipes.

*Where you are likely to have several days of sub-zero temperatures in a row, do not use a drain elbow and drain grommets. (There is a risk of drain water freezing inside and blocking the drain.)

**Do not use drain elbow and grommet made of plastic for drain piping when base heater for outdoor unit is used. Plastic grommet and elbow will be damaged and burnt in worst case.

**Prapare another drain tray made of metallic material for collecting drain when base heater is used.



 When condensed water needs to be led to a drain, etc., install the unit on a flat base (supplied separately as an option part) or concrete blocks.
Then, please secure space for the drain elbow and the drain hose

4. ELECTRICAL WIRING WORK For details of electrical cabling, refer to the indoor unit installation manual.

Electrical installation work must be performed by an electrical installation service provider qualified by a power provider of the country. Electrical installation work must be executed according to the technical standards and other regulations applicable to electrical installations in the country.

80 not use any supply cord lighter than one specified in parentheses for each type below.

80 not use any supply cord lighter than one specified in parentheses for each type below.

90 not use any supply cord lighter than one specified in parentheses for each type below.

91 not use anything lighter than polychloroprene sheathed flexible cord (code designation 6022 Fig. 61);

92 not use anything lighter than polychloroprene sheathed flexible cord (code designation 60245 IEC57) for supply cords of parts of appliances for outdoor use.

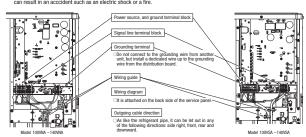
93 or outdoor use.

94 or outdoor use.

95 cound the unit. Do not connect the grounding wire to a gas pipe, water pipe, lightning rod or telephone grounding wire.

94 grounding wire must be connected before connecting the power cable. Provide a grounding wire longer than the power cable.

95 The installation of an impulse withstanding type earth leakage breaker is necessary. A failure to install an earth leakage breaker can result in an acccident such as an electric shock or a fire.



Do not turn on the power until the electrical work is completeted.
 Do not use a condensive capacitor for power factor improvement under any circumstances. (It dose not improve power factor, while it can cause an abnormal overheat accident)
 For power source cables, use conduits.
 Do not lay electronic control cables (remote control and signaling wires) and other cables together outside the unit. Laying them together can result in the malfunctioning or a failure of the unit due to electric noises.

**Do not lay electronic control causes (section of the unit due to electric noises.)

Fasten cables so that may not touch the piping, etc.

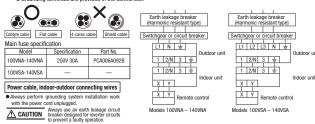
**Nen cables are connected, make sure that all electrical components within the electrical component box are free of loose connector coupling or terminal connection and then attach the cover securely, (improper cover attachment can result in malfunctioning or a failure of the unif, if water penetrates into the box.

**Always use a time-core cable for an indoor-outdoor connecting cable. Never use a shelic dable.

**Connect a pair bearing a common terminal number with an indoor-outdoor connecting wire.

In cabling, fasten cables securely with cable clamps so that no external force may work on terminal connections.

Grounding terminals are provided in the control box.



Model	Power source	Power cable thickness(mm²)	MAX. over current (A)	Cable length (m)	Grounding wire thickness	Indoor-outdoor wire thickness × number	
100VNA-140VNA	Single phase 3 wires 220-240V 50Hz 220V 60Hz	5.5	24	22	φ1.6mm	ф1.6mm x 3	
100VSA-140VSA	3 phase 4 wires 380-415V 50Hz	3.5	15	46	ψ1.Smin	,	

•The specifications shown in the above table are for units without heaters. For units with heaters, refer to the installation instructions or the index of sections of the index of sections. On the construction destruction of contract the relative specific property which is calculated from MAX, over current should be chosen along the regulations in each country.

Power source ingle phase 3 wir 220-240V 50Hz 20

(a) Power source cable: Use the cable which is conformed with 60245 IEC57. When selecting the than 2%. If the wire length gets longer, increase the wire diameter. (b) Indoor-Outdoor connecting wires: Use the wires which is conformed with 60245 IEC57. er source cable length, make sure that voltage drop is less

5. TEST RUN

- Before test run, make sure that the service valves are open.

 Before test run, turn ON power source for 6 hours in order to warm up the compressor.

 Without this operation, effigerant may accumulate in the compressor and earth leakage breaker may be activated.

 In case of the first operation after turning on power source, even if the unit does not move for 30 minutes, it is not a breakforum.

breakdown.

After power is turned off, wait 3 minutes or more before power source is turned 0N again.

Removing the service panel will expose high-voltage live parts and high-temperature parts, which are quite dangerous. Take utmost care not to incur an electric shock or burns. Do not leave the unit with the service panel open.

- CAUTION

 When you operate switches (SW3, SW5) for on-site setting, be careful not to touch a live part.

 to ucannot check discharge pressure from the liquid operation valve charge port.

 The 4-way valve (205) is energized during a heating operation.

 When power source is cut off to reset the unit, give 3 or more minutes before you turn on power again after power is cut off. If this procedure is not disented in turning on power again, "Communication error between outdoor and indoor unit" may occur.

Heating during a test run

Discharge pressure (High pressure)

2) Checking the state of the unit in operation

Use check joints provided on the piping before and after the four-way valve installed inside the unit for checking discharge pressure and suction pressure. As indicated in the table shown on the right, pressure detected at each point will vary depending on whether a cooling or heating operation has been selected.

3) Setting SW3-1, SW3-2, SW5-2, SW7-3, on-site

vertises control switching (SW3-1)
When this switch is turned ON, the unit will run in the defrost mode more frequently.
Set this switch to ON, when installed in a region where outdoor temperature falls below zero during the season the unit is run for a heating operation.

operation.

(2) Snow guard fan control (SW3-2)

-When this switch is turned 0N, the outdoor unit fan will run for 10 seconds in every 10 minutes, when outdoor temperature falls to 3°C or lower and the compressor is not running.

-When the unit is used in a very snowy country, set this switch to 0N.

(3) High height difference operation control (SW5-2)

-Set this switch to 0N when outdoor unit is installed at a position higher than indoor unit by 30m or more.

(4) Lower noise silent mode (SW7-3)

-Upper limit of compressor speed and an speed becomes lower in silent mode

4) Failure diagnosis in a test run

,							
Error indicated on the Printed circu		Printed circuit board LED	(The cycles of 5 seconds)	Failure event	Action		
	remote control unit	Red LED Green LI		i alidi 6 evelit			
	E34	Blinking once	Blinking continuously	Open phase	Check power cables for loose contact or disconnection		
	E40	Blinking once	Blinking continuously	63H1 actuation or operation with service valves shut (occurs mainly during a heating operation)	Check whether the service valves are open.		
	E49	Blinking once	Blinking continuously	Low pressure error or operation with service valves shut (occurs mainly during a cooling operation)	If an error has been canceled when 3 minutes have elapsed since a compressor stop, you can restart the unit by		
	E57	Blinking once	Blinking continuously	Short of refrigerant error or operation with service valves shut (occurs mainly during a cooling operation)	effecting Check Reset from the remote control unit.		

• If an error code other than those listed above is indicated, refer to the wiring diagram of the outdoor unit and the indoor unit.

5) The state of the electronic expansion valve.

1	The following table illustrates the steady states of the electronic expansion valve.									
Γ		When power is turned on	When the unit com	nes to a normal stop	When the unit comes to an abnormal stop					
		when power is turned on	During a cooling operation	During a heating operation	During a cooling operation	During a heating operation				
- [Valve for a cooling operation	Complete shut position	Complete shut position	Full open position	Full open position	Full open position				
	Valve for a heating operation	Full open position	Full open position	Complete shut position	Full open position	Full open position				

6) Heed the following on the first operation after turning on the circuit breaker.

This outdoor unit may start in the standby mode (waiting for a compressor startup), which can continue up to 30 minutes, to prever level in the compressor from lowering on the first operation after turning on the circuit breaker. If that is the case, do not suspect a unit

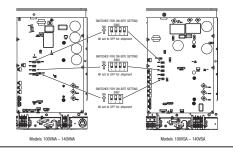
A failure to observe these instructions can result in a compressor breakdown

Items to check before a test run

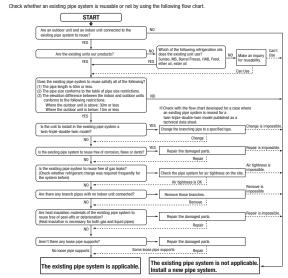
• When you leave the outdoor unit with power supplied to it, be sure to close the panel. Check item Check

Indoor unit Test run procedure Always carry out a test run and check the following in order as listed.

Turn	The contents of operation	Check			
1	Open the gas side service valve fully.				
2	Open the liquid side service valve fully.				
3	Close the panel.				
4	Where a remote control unit is used for unit setup on the installation site, follow instructions for unit setup on the installation site with a remote control unit.				
(5)	SW3-3 ON / SW3-4 OFF: the unit will start a cooling operation.				
(3)	SW3-3 ON / SW3-4 ON: the unit will start a heating operation.				
6	When the unit starts operation, press the wind direction button provided on the remote control unit to check its operation.				
7	Place your hand before the indoor unit's diffuser to check whether cold (warm) winds come out in a cooling (heating) operation.				
8	Make sure that a red LED is not blinking.				
9	When you complete the test run, do not forget to turn SW3-3 to the OFF position.				
(10)	Where options are used, check their operation according to the respective instruction manuals.				



6. UTILIZATION OF EXISTING PIPING



MARNING <Where the existing unit can be run for a cooling operation.>

- <Where the existing unit can be run for a cooling operation.>
 Carry out the following steps with the existing unit (in the order of (1), (2), (3) and (4))

 1) Run the unit for 30 misutes for a cooling operation.
 Stop the index of a misutes for a cooling operation.
 Stop the index of insert on the unit for 3 unitset for a cooling operation (elumining liquid).
 Close the liquid side service valve of the outdoor unit and pump down (enforeant recovery) when the pipe system or install a new pipe system.
 For the fier runt, do not use the old one, but use the one supplied with the outdoor unit. Process a flare to the dimensions specified for R32.
 Turn on-site setting switchs SW6-1 to the ON position. (Where the gas pipe size is \$\phi\$ 19.05)
 https://doi.org/10.1001/journal.not/ to purish proper size is \$\phi\$ 19.05)
 https://doi.org/10.1001/journal.not/ to purple system or install a new pipe system.
 If you choose to wash the pipe system, contact our distributor in the area.

- <Table of pipe size restrictions>
- ©:Standard pipe size ○:Applicable △:Restricted to shorter pipe length limits ×:Not applicable

Additional	charging amount of refrigerant per 1m	0.054kg/m		0.11kg/m	
Pipe size	Liquid pipe	φ9.52	φ9.52	φ12.7	φ12.7
Pipe size	Gas pipe	φ15.88	φ19.05	φ15.88	φ19.05
	Usability	0	○※1	\triangle	△※1
100V	Maximum one-way pipe length	50	50	25	25
	Length covered without additional charge	30	30	15	15
	Usability	0	○※1	Δ	△※1
125V	Maximum one-way pipe length	50	50	25	25
	Length covered without additional charge	30	30	15	15
	Usability	0	○※1	Δ	△※1
140V	Maximum one-way pipe length	50	50	25	25
l	I anoth covered without additional change	าก	าก	15	15

<Pipe system after the branching pipe>

		Aftı	er 1st bra	ınch ¾4	After 2nd branch			
Additional charging amount of refrigerant per 1 m			0.054kg/m			0.054kg/m		
Liquid pipe			φ9.52 φ9.52					
Pipe size	Gas pipe		ф12.7	φ15.88	φ19.05 ※ 1	φ12.7	φ15.88	φ19.05 ² 1
Model	Combination type	Combination of capacity						
100V	Twin	50+50	0	0	×	-	-	-
125V	Twin	60+60	0	0	×	-	-	-
	Twin	71+71	×	0	0	-	-	-
140V	Triple A	50+50+50	-0	0	×	-	-	-
	Triple B	50+50+50	×	0 % 5	○※5	0	0	×

- #1 Because of his insufficient pressure resistance, turn the DIP switch SWR-5 provided on the outdoor unit board to the OIP position for ϕ 19.05 × 11.0. (in the case of a him-high-double-him mode, the also applies to the case where ϕ 19.05 × 10.1 is used in a place spettern after the first branching-point.)
 #20 When the main place length cases of the case spettern after the rest branching-point. When the main place length cases of the case spettern after the rest of the case used.
 #20 When the main place length cases of the case spettern after the rest of the case used.
 #20 When the main place length cases of the case spettern after the rest of the case used.
 #20 When the main place length cases of the case of th

- <The model types of existing units of which branching pipes are reusable.>
 - Models later than Type 8. ●FDC * * * 8 □ □ □
- ●FDCP * * * 8 □ □ □

The branching pipes used with models other than those listed above are not reusable because of their insufficient pressure resistance. Please use our genuine branching pipes for R32.

□ □ □ is an alphanumeric letter

Formula to calculate additional charge volume

Offiniar to Caticulate acumuniar Charge volume (a) = (Mainpie (sign) + Charge volume (kg) = (Mainpie (sign) + Charge volume (kg) = (Mainpie (sign) + Additional charge volume per meter of pipe shown in the table (kg/m) + Total length of branch pipes (m)×Additional charge volume per meter of pipe shown in the table (kg/m) +

If you obtain a negative figure as a result of calculation, no additional refrigerant needs to be charged. **Example**) When an 140V (single installation) is installed in a 20m long existing pipe system (figure) 412.7, gas φ19.05), the quantity of refrigerant to charge additionally should be (20m-15m) x 0.118/m = 0.55 kg.

1.10.5 Instructions for branching pipe set (DIS-WA1, WB1, TA1, TB1)

PSB012D865 /A

WARNING / CAUTION

- This set is for R410A and R32 refrigerant.
- Select a branching pipe set correctly rated for the combined total capacity of connected indoor units and install it according to this manual. An improperly installed branching pipe set can cause degraded performance or an abnormal unit stop.
- Provide good heat insulation to the pipes by following instructions contained in this manual. Improper heat insulation can result in degraded performance or a water leak accident from condensation.
- Please make sure that only parts supplied as accessories or the manufacturer's approved parts are used in installing the unit, because a leak of refrigerant can result in a lack-of-oxygen accident, if it reaches a concentration beyond the tolerable limit.

This manual explains how to use a branching pipe set that is indispensable in connecting pipes for a twin/triple/double-twin configuration installation (system). For the details of piping work, unit installation work and electrical installation work, please refer to the installation manuals and installation guides supplied with your outdoor and indoor units.

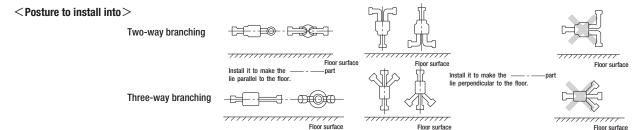
1. Branching pipe set specifications

(2) Connect pipes as illustrated in the table below. The pipe from an outdoor unit must be brazed to the pipe connection port "①" and the pipes from indoor units to "②," "③" and "④."

Branching pipe set type	Supported outdoor/inc	loor unit combinations	Part lists				
branching pipe set type	Outdoor unit model	Indoor unit model	Branching pipe set for a liquid pipe	Branching pipe set for a gas pipe	Different diameter pipe joint	Heat insulation material	
	3HP	1.5HP+1.5HP	ID9.52	ID15.88	Joint A		
	4HP	2HP+2HP			ID9.52 2 pieces		
DIS-WA1		1.5HP+2.5HP			Flare joint (for indoor unit side connection)	1 12	
(Two-way branching set)	5HP	2.5HP+2.5HP			(for indoor drift side conflection)		
(Two way branching bot)		2HP+3HP	ID9.52 🕌 ③	ID45 00	Joint B 2 pieces		
	6HP	3HP+3HP	ID9.52	ID15.88 ID15.88	0D15.88 D12.7	One each for liquid and gas	
		2HP+4HP	1 piece	1 piece			
	8НР	4HP+4HP	ID9.52	<u>ID15.88</u>			
DIS-WB1 (Two-way branching set)		3HP+5HP			Joint C 1 piece 0D12.7 D9.52		
	10HP	5HP+5HP	ID12.7 3 ID9.52 1 piece	1 piece ID25.4 ID15.88		One each for liquid and gas	
DIS-TA1 (Three-way branching set)	6HP	2HP+2HP+2HP	109.52 1 piece	ID12.7 ① ① ① ① ② ③ ① ① ID15.88 1 piece	Joint A ID9.52	One each for liquid and gas	
DIS-TB1 (Three-way branching set)	8HP	3HP+3HP+3HP	109.52 109.52 1 piece	1 piece	Joint A 2 pieces	One each for liquid and gas	

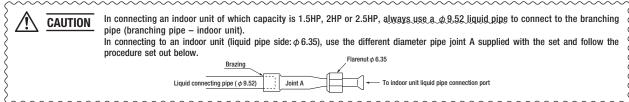
(3) To connect pipes for a Double Twin installation (involving 4 indoor units), please see 2-7. "Double Twin configuration." (4) A branching pipe set must always be installed into the posture as illustrated in the drawing below.

ID stands for inner diameter and OD, outer diameter



2. Pipe connecting procedure

Braze the different diameter pipe joint found in the set matching the connected outdoor and indoor unit capacities according to the instructions set out below.



2-1 DIS-WA1

Supported o		Liquid branching pipe	Gas branching pipe
Outdoor unit model	Indoor unit model	4 \$ 6-6	
ЗНР	1.5HP+1.5HP		Joint B ②
	2HP+2HP	Flare joint (φ6.35) ← Joint A	Joint B (3)
4HP	1.5HP+2.5HP	Connecting pipe (\$\phi 9.52\$) ID9.52 \(\begin{array}{c} \text{CAUTION} \\ \text{Reference} \\ \text{Flare joint} \\ (\$\phi 6.35) \end{array}	ID12.7
	2.5HP+2.5HP	(\$2.00)	Joint B 1015.88 1015.88 1015.88 1015.88 1015.88
5HP	2HP+3HP	Flare joint $(\phi 6.35)$ Joint A Connecting pipe $(\phi 9.52)$ ID9.52 $(\phi 9.52)$	Joint B (1) 1015.88 (1) 1015.88
	3HP+3HP	ID9.52 ID9.52 ID9.52	ID15.88 ID15.88 ID15.88
6НР	2HP+4HP	Flare joint $(\phi 6.35)$ Connecting pipe $(\phi 9.52)$	Joint B (1) 1012.7 Joint B (2) 1015.88

2-2 DIS-WB1

	ombinations	Liquid branching pipe	Gas branching pipe
Outdoor unit model	Indoor unit model	Liquid branching pipe	das branching pipe
8HP -	3HP+5HP	ID9.52	ID15.88
	4HP+4HP	Joint C ID9.52	ID15.88
10HP	5HP+5HP	ID9.52 ID12.73————————————————————————————————————	ID15.88 ID25.4 3 (3) ID15.88

2-3 DIS-TA1 Applicable to the difference in length of pipes after the branch being less than 3m * Connection is not allowed when the difference in length of pipes is larger than 3m.

Supported of Outdoor unit model	ombinations Indoor unit model	Liquid branching pipe	Gas branching pipe
6НР	2HP+2HP+2HP	Connecting pipe Joint A (ϕ 9.52) ID9.52 Flare joint (ϕ 6.35) Joint A CAUTION Reference	1D12.7 ① ② ③ ④ ID15.88 3

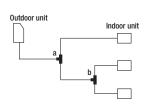
2-4 DIS-TB1 Applicable to the difference in length of pipes after the branch being less than 3 m * Connection is not allowed when the difference in length of pipes is larger than 3 m.

Supported combinations		Liquid branching pipe	Gas branching pipe				
Outdoor unit model	Indoor unit model	Liquid branching pipe	das branching pipe				
8НР	3HP+3HP+3HP	ID9.52 3————————————————————————————————————	1D15.88 1D25.4 J				

Note When connect the indoor unit of an old model that is shown in the model list, use the joint supplied with the branch piping set like *A

2-5. Triple type for same model/same capacity or different model/same capacity

When the difference in length of pipes after the branch is longer than 3m and shorter than 10m

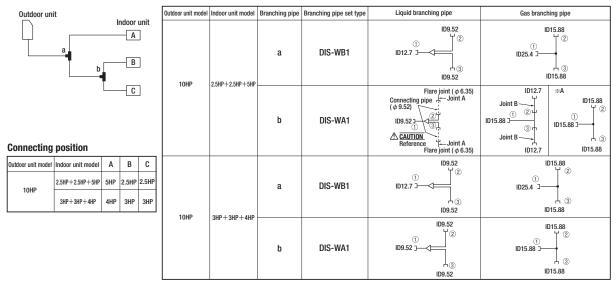


outdoor unit model	Indoor unit model	Branching pipe	Branching pipe set type	Liquid branching pipe	Gas branching pipe
		a		Flare joint $(\phi 6.35)$ Joint A Connecting pipe $(\phi 9.52)$ \bigcirc	Joint B 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
6НР	2HP+2HP+2HP	b	DIS-WA1	Flare joint $(\phi 6.35)$ Connecting pipe $(\phi 9.52)$ ID9.52 $(\phi 9.52)$	Joint B Joint B Joint B ID12.7
		a	DIS-WB1	ID9.52 ID9.52	ID15.88 ID25.4 3 3 ID15.88
8HP	3HP+3HP+3HP	b	DIS-WA1	ID9.52 (2) (3) (D9.52 (10).52	ID15.88 ID15.88 ID15.88

2-6. Triple type for same model/different capacity or different model/different capacity

Applicable to the difference in length of pipes after the branch being less than 3m

* Connection is not allowed when the difference in length of pipes is larger than 3m.



Note When connect the indoor unit of an old model that is shown in the model list, use the joint supplied with the branch piping set like * A.

2-7. Double Twin type

Pipes should be connected as follows for a Double Twin installation (4 connected indoor units. The capacity of an outdoor unit available for this configuration is either 8HP or 10HP only):

s either 8HP or 10 Outdoor unit capacity	Indoor unit capacity	Branching pipe	Branching pipe set type	Outdoor unit model	Liquid branching pipe	Gas branching pipe		
8HP 10HP	2HP×4 units 2.5HP×4 units			8HP	ID9.52 Joint C ID9.52	ID15.88 ⊕		
Outdoor unit b Indoor u		a	DIS-WB1	10HP	ID9.52 ID12.7 3 ID9.52	ID25.4 3 (3) (3) (D15.88		
a b				8НР	Flare joint (ϕ 6.35) Connecting pipe Joint A (ϕ 9.52)	ID12.7 Joint B 2 ID15.88 Joint B Joint B ID12.7		
		b	DIS-WA1	10HP	D9.52 → ⊕ ⊕ ⊕ □ ⊕ □ ⊕ □ ⊕ □ ⊕ □ ⊕ □ ⊕ □ ⊕ □ ⊕	#A		

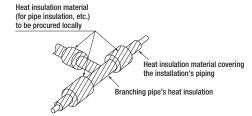
Note When connect the indoor unit of an old model that is shown in the model list, use the joint supplied with the branch piping set like * A.

3. Heat insulation work

(1) Condensation can also occur on liquid pipes with this model. Please provide good heat insulation to both liquid and gas pipes.

(2) For the heat insulation of a branching pipe, always use the heat insulation material supplied with the set and provide heat insulation according to the instructions set out below.

It has an adhesive layer on the entire inner face.
 Remove a separator and wrap it around the branching pipe.



2. Apply a heat insulation material (to be procured locally) to the joint between the branching pipe's heat insulation and the heat insulation material covering the installation's piping as described above and wrap a tape over the gap shown as a hatched (///) area to complete dressing of the piping.

1.10.6 Safety precautions in handling air-conditioners with flammable refrigerants

PSA012B839A /B

R32 REFRIGERANT USED



This equipment uses flammable refrigerants. If the refrigerant is leaked, together with an external ignition source, there is a possibility of ignition.



There is information included in the user's manual and/or installation manual.



The user's manual should be read carefully.



A service personnel should be handing this equipment with reference to the installation manual.

- This safety precaution sheet is for R32 refrigerant. If you want to know the type of refrigerant in the unit, check the label attached to the outdoor unit.
- The precautionary items mentioned below are distinguished into two levels, MARNING and ACAUTION

⚠ WARNING: Wrong installation would cause serious consequences such as injuries or death

⚠ CAUTION : Wrong installation might cause serious consequences depending on circumstances

⚠ WARNING

- Strict compliance of the domestic laws must be observed when disposing the appliance
- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater.
- Do not pierce or burn
- Be aware that refrigerants may not contain an odour.

⚠ CAUTION

(1. General)

- That the installation of pipe-work shall be kept to a minimum.
- That pipe-work shall be protected from physical damage.
- That compliance with national gas regulations shall
- That mechanical connections shall be accessible for maintenance purposes. Keep any required ventilation openings clear of
- obstruction.
- Servicing shall be performed only as recommended by the manufacturer.

2. Unventilated areas

The appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specified for operation.

Qualification of workers

The staff in servicing operations must hold the national qualification or other relevant qualifications.

Information on servicing

- 4.1 Checks to the area
- Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimised
- For repair to the refrigerating system, 4.3 to 4.7 shall be completed prior to conducting work on the system.
- 4.2 Work procedure
- · Work shall be undertaken under a controlled procedure so as to minimise the risk of a flammable gas or vapour being present while the work is being performed.
- 4.3 General work area
- All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out.
- Work in confined spaces shall be avoided.
- The area around the workspace shall be sectioned off. Ensure that the conditions within the area have
- been made safe by control of flammable material.
- 4.4 Checking for presence of refrigerantThe area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially toxic or flammable atmospheres
- Ensure that the leak detection equipment being used is suitable for use with all applicable refrigerants, i.e.

non-sparking, adequately sealed or intrinsically

- 4.5 Presence of fire extinguisher
- If any hot work is to be conducted on the refrigeration equipment or any associated parts. appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO2 fire extinguisher adjacent to the charging area
- 4.6 No ignition sources
- No person carrying out work in relation to a refrigeration system which involves exposing any pipe work shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion.
- All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which refrigerant can possibly be released to the surrounding space.
- Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks.
- "No Smoking" signs shall be displayed.
- 4.7 Ventilated area
- Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work.
- A degree of ventilation shall continue during the period that the work is carried out.
 The ventilation should safely disperse any released
- refrigerant and preferably expel it externally into the atmosphere.
- 4.8 Checks to the refrigeration equipment
- Where electrical components are being changed, they shall be fit for the purpose and to the correct specification.
- At all times the manufacturer's maintenance and
- service guidelines shall be followed.

 If in doubt consult the manufacturer's technical department for assistance
- The following checks shall be applied to installations using flammable refrigerants
 - the charge size is in accordance with the room size within which the refrigerant containing parts are installed:
- the ventilation machinery and outlets are operating adequately and are not obstructed;
- if an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant;
- marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected;
- refrigeration pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

- 4.9 Checks to electrical devices
- Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures.
- If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with.
- If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used.
- This shall be reported to the owner of the equipment so all parties are advised
- Initial safety checks shall include:
- that capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking:
- that no live electrical components and wiring are exposed while charging, recovering or purging the system:
- that there is continuity of earth bonding.

5. Repairs to sealed components

- During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc
- If it is absolutely necessary to have an electrical supply to equipment during servicing, then a permanently operating form of leak detection shall be located at the most critical point to warn of a potentially hazardous situation
- Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected.
- This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.
- Ensure that the apparatus is mounted securely.
- Ensure that seals or sealing materials have not degraded to the point that they no longer serve the purpose of preventing the ingress of flammable atmospheres.
- Replacement parts shall be in accordance with the manufacturer's specifications.

The use of silicon sealant can inhibit the effectiveness of some types of leak detection equipment. Intrinsically safe components do not have to be isolated prior to working on them.

⚠ CAUTION

Repair to intrinsically safe components

- Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use.
- Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere.
- The test apparatus shall be at the correct rating Replace components only with parts specified by the manufacturer.
- Other parts may result in the ignition of refrigerant in the atmosphere from a leak

7. Cabling

Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects. The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.

8. Detection of flammable refrigerants

- Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks.
- A halide torch (or any other detector using a naked flame) shall not be used.

9. Leak detection methods

- Electronic leak detectors may be used to detect refrigerant leaks but, in the case of flammable refrigerants, the sensitivity may not be adequate, or may need re-calibration. (Detection equipment shall be calibrated in a refrigerant-free area.)
 Ensure that the detector is not a potential source of
- ignition and is suitable for the refrigerant used
- Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed, and the appropriate percentage of gas (25 % maximum) is confirmed.
- Leak detection fluids are suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe-work.

 If a leak is suspected, all naked flames shall be
- removed/extinguished.
- If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak.
- For appliances containing flammable refrigerants, oxygen free nitrogen (OFN) shall then be purged through the system both before and during the brazing process.

10. Removal and evacuation

- When breaking into the refrigerant circuit to make repairs - or for any other purpose - conventional procedures shall be used. However, for flammable refrigerants it is important that best practice is followed since flammability is a consideration.
- The following procedure shall be adhered to: remove refrigerant;
- purge the circuit with inert gas;
- evacuate;
- purge again with inert gas;
- open the circuit by cutting or brazing. The refrigerant charge shall be recovered into the
- correct recovery cylinders.
- For appliances containing flammable refrigerants, the system shall be "flushed" with OFN to render the unit safe
- This process may need to be repeated several times.
- Compressed air or oxygen shall not be used for purging refrigerant systems.

- For appliances containing flammable refrigerants, flushing shall be achieved by breaking the vacuum in the system with OFN and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum. This process shall be repeated until no refrigerant is within the system.
- When the final OFN charge is used, the system shall be vented down to atmospheric pressure to enable work to take place. This operation is absolutely vital if brazing
- operations on the pipe-work are to take place.
- Ensure that the outlet for the vacuum pump is not close to any ignition sources and that ventilation is available

11. Charging procedures

- In addition to conventional charging procedures, the following requirements shall be followed
 - Ensure that contamination of different refrigerants does not occur when using charging equipment. Hoses or lines shall be as short as possible to minimise the amount of refrigerant contained in
- Cylinders shall be kept upright.Ensure that the refrigeration system is earthed prior to charging the system with refrigerant.
- Label the system when charging is complete (if not already).
- Extreme care shall be taken not to overfill the refrigeration system.
- Prior to recharging the system, it shall be pressuretested with the appropriate purging gas
- The system shall be leak-tested on completion of charging but prior to commissioning.
- A follow up leak test shall be carried out prior to leaving the site.

12. Decommissioning

- Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its detail.
- It is recommended good practice that all refrigerants are recovered safely.
- Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of reclaimed refrigerant.
- It is essential that electrical power is available before the task is commenced.

 a) Become familiar with the equipment and its
- b) Isolate system electrically.c) Before attempting the procedure ensure that:
- mechanical handling equipment is available, if
- required, for handling refrigerant cylinders; all personal protective equipment is available and being used correctly;
- the recovery process is supervised at all times by a competent person:
- recovery equipment and cylinders conform to the appropriate standards.
- d) Pump down refrigerant system, if possible.
- e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
- f) Make sure that cylinder is situated on the scales before recovery takes place.
- g) Start the recovery machine and operate in accordance with manufacturer's instructions.
- h) Do not overfill cylinders. (No more than 80 % volume liquid charge).
- i) Do not exceed the maximum working pressure of the cylinder, even temporarily.
- j) When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.
- k) Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked.

(13. Labelling)

- Equipment shall be labelled stating that it has been de-commissioned and emptied of refrigerant. The label shall be dated and signed.
- For appliances containing flammable refrigerants, ensure that there are labels on the equipment stating the equipment contains flammable refrigerant.

14. Recovery

- When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed
- safely.
 When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders
- are employed.

 Ensure that the correct number of cylinders for holding the total system charge are available
- All cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (i.e. special cylinders for the recovery of refrigerant).
- Cylinders shall be complete with pressure relief valve and associated shut-off valves in good working order.
- Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs
- The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of all appropriate refrigerants including, when applicable, flammable refrigerants.
- In addition, a set of calibrated weighing scales shall be available and in good working order
- · Hoses shall be complete with leak-free disconnect couplings and in good condition.
- Before using the recovery machine, check that it is in satisfactory working order, has been properly maintained and that any associated electrical components are sealed to prevent ignition in the event of a refrigerant release.
- Consult manufacturer if in doubt.
- The recovered refrigerant shall be returned to the refrigerant supplier in the correct recovery cylinder, and the relevant Waste Transfer Note arranged. Do not mix refrigerants in recovery units and especially not in cylinders.
- If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant.
- The evacuation process shall be carried out prior to returning the compressor to the suppliers.
- Only electric heating to the compressor body shall be employed to accelerate this process
- · When oil is drained from a system, it shall be carried out safely.

(15. Other safety precautions

- A brazed, welded, or mechanical connection shall be made before opening the valves to permit refrigerant to flow between the refrigerating system parts.
- Flammable refrigerant used, refrigerant tubing protected or enclosed to avoid mechanical damage (IEC/EN 60335-2-40/A1).
- Tubing protected to extent that it will not be handled or used for carrying during moving of product (IEC/ EN 60335-2-40/A1).
- Flammable refrigerant used, low temperature solder alloys, such as lead/tin alloys, not acceptable for pipe connections (IEC/EN 60335-2-40/A1).
- Do not use flare nut indoor which is locally procured.

Selection of installation location for the indoor unit

• Minimum installation area for indoor unit

⚠ CAUTION

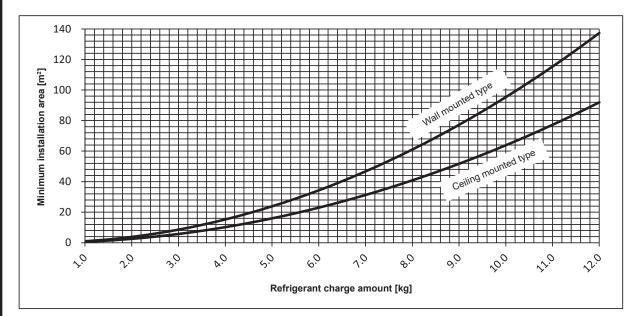
The indoor unit shall be installed in a room with minimum installation area or more according to the refrigerant charge amount (factory refrigerant charge +additional refrigerant charge).

For factory refrigerant charge, refer to the outdoor unit label model name or installation sheet.

For additional refrigerant charge, refer to the outdoor unit installation sheet.

Ceiling mounted type	FDT,FDE,FDU,FDUM	series				
Wall mounted type	SRK series					
Refriger charge amo		1.30	1.50	1.75	2.00	
	Ceiling mounted	1.1	1.4	2.0	2.6	ĺ

Refriger charge amo		1.30	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75
minimum installation area [m²]	Ceiling mounted type	1.1	1.4	2.0	2.6	3.2	4.0	4.8	5.7	6.7	7.8	9.0	10.2	11.5	12.9	14.4
	Wall mounted type	1.6	2.1	2.9	3.8	4.8	6.0	7.2	8.6	10.1	11.7	13.4	15.3	17.2	19.3	21.5
Refriger charge amo		5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0
minimum installation area [m²]	Ceiling mounted type	16	19	23	27	31	36	41	46	52	58	64	70	77	84	92
	Wall mounted type	24	29	34	40	47	54	61	69	77	86	95	105	115	126	137



The minimum floor area [m²] is determined based on the installation height of 1.8m for wall mounted type and 2.2m for ceiling mounted type.

• Ceiling opening area

⚠ CAUTION

In case of installing the indoor unit in an enclosed ceiling space, ensure there is a sufficient ventilation opening around the unit. In the event of refrigerant leakage, this countermeasure would prevent an increased concentration of refrigerant.

1.11 TECHNICAL INFORMATION

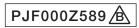
(1) Ceiling cassette-4 way type (FDT)

FDT100VNAWVH

Information to identify the model(s) to Indoor unit model name Outdoor unit model name	If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'						
Function(indicate if present)				Average(mandatory)	Yes		
cooling	Yes			Warmer(if designated)	No		
heating	Yes			Colder(if designated)	No		
Item	symbol	value	unit	Item Seasonal efficiency and energy efficie	symbol	value	class
Design load cooling	Pdesigno	10.0	7kW	cooling	SEER	7.13	A++
heating / Average	Pdesignh		kW	heating / Average	SCOP/A		A++
heating / Warmer	Pdesignh		kW	heating / Warmer	SCOP/W		-
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C	-	-
Declared capacity at outdoor tempera	aturo Tdociar	ah		Back up heating capacity at outdoor te	mporaturo	Tdocianh	unit
heating / Average (-10°C)	Pdh	8.50	lkW	heating / Average (-10°C)	elbu	0	kW
heating / Warmer (2°C)	Pdh	-	kW	heating / Warmer (2°C)	elbu	-	kW
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	-	kW
		0=/10	0-				1010-
Declared capacity for cooling, at indo	or temperatu	ire 27(19)	C and	Declared energy efficiency ratio, at ind	oor temper	rature 27(19)°C and
outdoor temperature Tj Tj=35°C	Pdc	10.00	lkW	outdoor temperature Tj Tj=35°C	EERd	3.66	1_
Tj=30°C	Pdc	7.37	kW	Tj=30°C	EERd	5.71	 -
Tj=25°C	Pdc	4.74	kW	Tj=25°C	EERd	9.24	1-
Tj=20°C	Pdc	3.10	kW	Tj=20°C	EERd	11.64	1-
Declared capacity for heating / Avera		at indoor		Declared coefficient of performance / /		ason, at ir	ndoor
temperature 20°C and outdoor 20°C a		7.40	TIAM/	temperature 20°C and outdoor temperature Ti=-7°C		2.00	7
Tj=-7°C Tj=2°C	Pdh Pdh	7.40 4.50	kW kW	Tj=-7 C	COPd COPd	3.26 4.43	
Ti=7°C	Pdh	2.90	kW	Tj=7°C	COPd	5.78	
Ti=12℃	Pdh	2.90	kW	Tj=12°C	COPd	7.19	1_
Tj=bivalent temperature	Pdh	8.50	kW	Tj=bivalent temperature	COPd	2.96	1-
Tj=operating limit	Pdh	6.30	kW	Tj=operating limit	COPd	2.25	-
				(D)			
Declared capacity for heating / Warm temperature 20°C and outdoor 20°C and 00°C and 00		it indoor		Declared coefficient of performance / \text{temperature 20°C and outdoor temperature}		ason, at ir	ldoor
Tj=2°C	Pdh		lkW	Tj=2°C	COPd	-	7_
Ti=7°C	Pdh	<u> </u>	kW	Tj=7°C	COPd	-	1_
Ti=12°C	Pdh	-	kW	Tj=12°C	COPd	-	1-
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-]-
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-
Declared capacity for heating / Colde temperature 20°C and outdoor 20°C and o		indoor		Declared coefficient of performance / 0 temperature 20°C and outdoor 2		son, at ind	oor
Tj=-7°C	Pdh	-	kW	Tj=-7°C	COPd	-	7-
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	1-
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-]-
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	<u></u> -
Tj=bivalent temperature	Pdh	<u> </u>	kW	Tj=bivalent temperature	COPd	-	-
Tj=operating limit Tj=-15°C	Pdh Pdh	-	kW kW	Tj=operating limit Tj=-15°C	COPd COPd	-	
1]=-13 C	Full		IVAA	[1]=-13 C	COFU	-	-
Bivalent temperature				Operating limit temperature			
heating / Average	Tbiv	-10	℃	heating / Average	Tol	-20	°C
heating / Warmer	Tbiv		°C	heating / Warmer	Tol	-	°C
heating / Colder	Tbiv	-	°C	heating / Colder	Tol	-	°C
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pcvcc		lkW	for cooling	EERcyc	-	7-
for heating	Pcych	-	kW	for heating	COPcyc	-	1-
Degradation coefficient			,	Degradation coefficient	.		-
cooling	Cdc	0.25	-	heating	Cdh	0.25	-
Electric power input in power modes	other than 'a	ctive mod	اما	Annual electricity consumption			
off mode	Poff	7	Īw	cooling	Qce	491	kWh/a
standby mode	Psb	7	w	heating / Average	Qhe	2590	kWh/a
thermostat-off mode	Pto(cooling)	22	W	heating / Warmer	Qhe	-	kWh/a
	Pto(heating)	34	W	heating / colder	Qhe	-	kWh/a
crankcase heater mode	Pck	5	W				
Capacity control(indicate one of three	e ontione)			Other items			
Capacity control(maioate one of the	optionoj			Sound power level(indoor)	Lwa	62	dB(A)
				Sound power level(outdoor)	Lwa	69	dB(A)
fixed	No			Global warming potential	GWP	675	kgČÓ₂eq
staged	No			Rated air flow(indoor)	-	2220	m³/h
variable	Yes			Rated air flow(outdoor)		4500	m³/h
Contact details for obtaining Nam	e and addres	ss of the r	manufactur	er or of its authorised representative.			
				tioning Europe, Ltd.			
				e, Middlesex, UB11 1ET, United kingdon	1		

FDT100VSAWVH

Information to identify the model(s) to	which the i	nformation	relates to:	If function includes heating: Indicate the	ne heating	season the
Indoor unit model name	FDT100			information relates to. Indicated value	s should re	late to one
Outdoor unit model name	FDC100			heating season at a time. Include at lea		
Outdoor unit model name	FDC 100	V SA-VV		Theating season at a time. Include at lea	ist the neat	ng season Average.
				.		
Function(indicate if present)				Average(mandatory)	Yes	
cooling	Yes			Warmer(if designated)	No	
heating	Yes			Colder(if designated)	No	
neating	103			Colder (II designated)	110	
l.,						
Item	symbol	value	unit	Item	symbol	value class
Design load			_	Seasonal efficiency and energy efficie	ncy class	
cooling	Pdesigno	10.0	kW	cooling	SEER	7.13 A++
heating / Average	Pdesignl	8.50	kW	heating / Average	SCOP/A	4.60 A++
heating / Warmer	Pdesign		kW	heating / Warmer	SCOP/W	
heating / Colder	Pdesignl	1 -	kW	heating / Colder	SCOP/C	
						unit
Declared capacity at outdoor tempera	ture Tdesig	nh		Back up heating capacity at outdoor to	emperature	Tdesignh
heating / Average (-10°C)	Pdh	8.50	kW	heating / Average (-10°C)	elbu	0 kW
heating / Warmer (2°C)	Pdh	-	kW	heating / Warmer (2°C)	elbu	- kW
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	- kW
rieating / Colder (-22 C)	Full		KVV	Heating / Colder (-22 C)	eibu	- KVV
Declared capacity for cooling, at indo	or temperat	ure 27(19))°C and	Declared energy efficiency ratio, at inc	door tempe	rature 27(19)°C and
outdoor temperature Tj				outdoor temperature Tj		
Ti=35°C	Pdc	10.00	kW	Ti=35°C	EERd	3.66 -
Tj=30°C	Pdc	7.37	kW	Tj=30°C	EERd	5.71 -
Tj=25°C	Pdc	4.74	kW	Tj=25°C	EERd	9.24 -
Tj=20°C	Pdc	3.10	kW	Tj=20°C	EERd	11.64 -
Declared capacity for heating / Average	ge season	at indoor		Declared coefficient of performance /	Average se	ason, at indoor
temperature 20°C and outdoor tempe				temperature 20°C and outdoor temper		,
Tj=-7°C	Pdh	7.40	lkW	Tj=-7°C	COPd	3.26 -
Tj=2°C	Pdh	4.50	kW	Tj=2°C	COPd	4.43 -
Tj=7°C	Pdh	2.90	kW	Tj=7°C	COPd	5.78 -
Tj=12°C	Pdh	2.90	kW	Ti=12°C	COPd	7.19 -
Tj=bivalent temperature	Pdh	8.50	kW	Tj=bivalent temperature	COPd	2.96 -
Ti=operating limit	Pdh	6.30	kW	Tj=operating limit	COPd	2.25 -
1)-operating innit	Full	0.30	LVV	1j-operating innit	COFU	2.25
Declared capacity for heating / Warm		at indoor		Declared coefficient of performance /		ason, at indoor
temperature 20°C and outdoor tempe	rature Tj			temperature 20°C and outdoor temper	ature Tj	
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	
Ti=7°C	Pdh	-	kW	Tj=7°C	COPd	
			kW			
Tj=12°C	Pdh		_	Tj=12°C	COPd	
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	
Declared capacity for heating / Colder	season, at	indoor		Declared coefficient of performance /	Colder sea	son, at indoor
temperature 20°C and outdoor tempe				temperature 20°C and outdoor temper		,
Ti=-7°C	Pdh		T kW	Ti=-7°C	COPd	
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	
Ti=operating limit	Pdh		kW	Tj=operating limit	COPd	
Tj=-15°C	Pdh	<u> </u>	kW	Tj=-15°C	COPd	
1]=-15 C	Pun		KVV	[1]=-15 C	COPa	
Bivalent temperature			_	Operating limit temperature		
heating / Average	Tbiv	-10	°C	heating / Average	Tol	-20 °C
heating / Warmer	Tbiv	-	o°C	heating / Warmer	Tol	- ℃
heating / Colder	Tbiv		°c	heating / Colder	Tol	- ℃
noung / colder	1 21 7			casing / Coldon	101	- 1°
Cycling interval eggs;tr			1	Cycling interval officiency		
Cycling interval capacity	-		7	Cycling interval efficiency		
for cooling	Pcycc	-	kW	for cooling	EERcyc	<u> </u>
for heating	Pcych	-	kW	for heating	COPcyc	
Degradation coefficient				Degradation coefficient		
cooling	Cdc	0.25	٦.	heating	Cdh	0.25 -
cooling	Ouc	0.20		neating	Odii	0.20
Floring a supplier 12	4141	-4!	1-1	Annual alastriait.		
Electric power input in power modes				Annual electricity consumption	_	
off mode	Poff	7	W	cooling	Qce	491 kWh/a
standby mode	Psb	7	W	heating / Average	Qhe	2590 kWh/a
thermostat-off mode	Pto(cooling)	22	W	heating / Warmer	Qhe	- kWh/a
1	Pto(heating)		w	heating / colder	Qhe	- kWh/a
crankeasa haatar mada			√w	nodding / Goldel	QIIC	- \v\\\\\a
crankcase heater mode	Pck	5	VV	l		
				Louis v		
Capacity control(indicate one of three				Other items		
Capacity control(indicate one of three	options)			Sound power level(indoor)	Lwa	62 dB(A)
	options)					
Capacity control(malcate one of three	options)			Sound power level(outdoor)	Lwa	69 dB(A)
fixed	No			Global warming potential	GWP	675 kgĈO₂eq.
fixed staged	No No			Global warming potential Rated air flow(indoor)	GWP -	675 kgCO ₂ eq.
fixed	No			Global warming potential	GWP	675 kgĈO₂eq.
fixed staged variable	No No Yes			Global warming potential Rated air flow(indoor) Rated air flow(outdoor)	GWP -	675 kgCO ₂ eq.
fixed staged variable	No No Yes	ess of the i	manufactur	Global warming potential Rated air flow(indoor)	GWP -	675 kgCO ₂ eq.
fixed staged variable Contact details for obtaining Name	No No Yes			Global warming potential Rated air flow(indoor) Rated air flow(outdoor)	GWP -	675 kgCO ₂ eq.
fixed staged variable Contact details for obtaining more information Mitsu	No No Yes	/ Industrie	s Air-Condi	Global warming potential Rated air flow(indoor) Rated air flow(outdoor) er or of its authorised representative. tioning Europe, Ltd.	GWP - -	675 kgCO ₂ eq.
fixed staged variable Contact details for obtaining more information Mitsu	No No Yes	/ Industrie	s Air-Condi	Global warming potential Rated air flow(indoor) Rated air flow(outdoor) er or of its authorised representative.	GWP - -	675 kgCO ₂ eq. 2220 m³/h
fixed staged variable Contact details for obtaining Mammore information Mitsu	No No Yes	/ Industrie	s Air-Condi	Global warming potential Rated air flow(indoor) Rated air flow(outdoor) er or of its authorised representative. tioning Europe, Ltd.	GWP - -	675 kgCO ₂ eq.



FDT100VNAWPVH

Information to identify the model(s) to	which the in	formation	relates to:	If function includes heating: Indicate the	e heating s	season the	
Indoor unit model name	FDT50VH	l (x2 units	s)	information relates to. Indicated values	should rel	ate to one	
Outdoor unit model name	FDC100V		٥,	heating season at a time. Include at leas			
Outdoor unit modername	FDC100V	INA-VV		Theating season at a time. Include at leas	i ille lleati	ng season	Average.
				.			
Function(indicate if present)				Average(mandatory)	Yes		
cooling	Yes			Warmer(if designated)	No		
heating	Yes			Colder(if designated)	No		
ricating	103			Colder(ii designated)	110		
l.,				11			
Item	symbol	value	unit	Item	symbol	value	class
Design load				Seasonal efficiency and energy efficien	icy class		
cooling	Pdesigno	10.0	kW	cooling	SEER	7.41	A++
heating / Average	Pdesignh	8.50	kW	heating / Average	SCOP/A	4.47	A+
heating / Warmer	Pdesignh		kW	heating / Warmer	SCOP/W		-
							<u> </u>
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C	-	
							unit
Declared capacity at outdoor temperate	ure Tdesigr	ηh		Back up heating capacity at outdoor ter	nperature	Tdesignh	
heating / Average (-10°C)	Pdh	8.50	kW	heating / Average (-10°C)	elbu	0	kW
heating / Warmer (2°C)	Pdh	-	kW	heating / Warmer (2°C)	elbu	_	kW
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	-	kW
rieating / Colder (-22 C)	Full	_	KVV	rieating / Colder (-22 C)	eibu	-	KVV
			0-				
Declared capacity for cooling, at indoo	r temperatu	ıre 27(19)	°C and	Declared energy efficiency ratio, at inde	oor temper	ature 27(1	(9)℃ and
outdoor temperature Tj				outdoor temperature Tj			
Ti=35°C	Pdc	10.00	kW	Tj=35°C	EERd	3.55	1_
Tj=30°C	Pdc	7.37	kW	Tj=30°C	EERd	5.60	†_
							- − − 1
Tj=25°C	Pdc	4.74	kW	Tj=25°C	EERd	9.60	ļ- I
Tj=20°C	Pdc	3.49	kW	Tj=20°C	EERd	15.30	-
				. <u></u>			
Declared capacity for heating / Average	e season. a	at indoor		Declared coefficient of performance / A	verage se	ason, at in	door
temperature 20°C and outdoor temper				temperature 20°C and outdoor tempera		,	
Ti=-7°C	Pdh	7.40	kW	Ti=-7°C	COPd	3.05	1_
							- ∣
Tj=2°C	Pdh	4.50	kW	Tj=2°C	COPd	4.15	<u> </u> -
Tj=7°C	Pdh	2.90	kW	Tj=7°C	COPd	6.10	-
Tj=12°C	Pdh	2.82	kW	Ti=12°C	COPd	7.60	1-
Tj=bivalent temperature	Pdh	8.50	kW	Tj=bivalent temperature	COPd	2.70	1_
Ti=operating limit	Pdh	6.30	kW	Tj=operating limit	COPd	2.25	1
1)-operating limit	Full	0.30	IV V V	rj-operating limit	COFU	2.20	<u> </u>
Declared capacity for heating / Warme		t indoor		Declared coefficient of performance / V		ason, at in	door
temperature 20°C and outdoor temper	ature Tj			temperature 20°C and outdoor tempera	iture Tj		
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	1-
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	†_
Tj=12°C	Pdh		kW	Tj=12°C			- − − −
		-			COPd	-	ļ- I
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	<u>l</u> -
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-
Declared capacity for heating / Colder	season, at	indoor		Declared coefficient of performance / C	older seas	son, at ind	oor
temperature 20°C and outdoor temper				temperature 20°C and outdoor tempera			
Ti=-7°C	Pdh	-	lkW	Tj=-7°C	COPd		1
						-	ļ ⁻
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	<u>l</u> -
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	-
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	-
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	1-
Tj=operating limit	Pdh		kW	Tj=operating limit	COPd	_	1_
Tj=-15°C	Pdh		kW	Tj=-15°C	COPd		+
1]=-15 C	Pun	-	KVV	[]=-15 C	COPa	-	-
Bivalent temperature			_	Operating limit temperature			_
heating / Average	Tbiv	-10	°C	heating / Average	Tol	-20	°C
heating / Warmer	Tbiv	-	°C	heating / Warmer	Tol	-	°C
heating / Colder	Tbiv		l°c l	heating / Colder	Tol	-	°c ∣
	1 217				101		-
Cycling intonyal aspecit				Cycling intorval officions:			
Cycling interval capacity			,,,, J	Cycling interval efficiency			, !
for cooling	Pcycc	-	kW	for cooling	EERcyc	-	ļ- l
for heating	Pcych	-	kW	for heating	COPcyc	-	<u> -</u>
Degradation coefficient			1	Degradation coefficient			
cooling	Cdc	0.25	1. l	heating	Cdh	0.25	1_
cooling	Ouc	0.20		ricating	Odii	0.20	
Florida a susa in a C	4141	_4:	_1 1	Annual alastriaites a			
Electric power input in power modes of				Annual electricity consumption	_		
off mode	Poff	10	W	cooling	Qce	473	kWh/a
standby mode	Psb	10	W	heating / Average	Qhe	2665	kWh/a
thermostat-off mode	Pto(cooling)	15	w	heating / Warmer	Qhe	-	kWh/a
1	Pto(heating)	30	w	heating / colder	Qhe	-	kWh/a
crankease heater made			₩ l	nodding / Goldel	QIIC		11. V V I I / C
crankcase heater mode	Pck	5	٧٧				
				Tour "			
Capacity control(indicate one of three	options)			Other items			,
1				Sound power level(indoor)	Lwa	55	dB(A)
1				Sound power level(outdoor)	Lwa	69	dB(A)
fixed	No			Global warming potential	GWP	675	kgCO₂eq.
staged	No			Rated air flow(indoor)	-	1320	m³/h
variable	Yes			Rated air flow(outdoor)	_	4500	m³/h
variable	1 162			rated all how(outdool)	-	1 4000	pii /II
Control data?	223 11						
				er or of its authorised representative.			
more information Mitsul	oishi Heavy	Industries	Air-Condi	tioning Europe, Ltd.			
5 The	Square, St	ockley Pa	rk, Uxbrida	e, Middlesex, UB11 1ET, United kingdom			
		,	. 3	, ,			
i							

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FDT100VSAWPVH

Information to identify the model(s) to	vhich the in	nformation	relates to:	If function includes heating: Indicate the	e heating s	season the	
Indoor unit model name	FDT50VH	1 (x2 units	s)	information relates to. Indicated values	should rel	ate to one	
Outdoor unit model name	FDC100\		-,	heating season at a time. Include at least			
Outdoor drift model name	II DO 1001	7 JA-44		Theating season at a time. Include at leas	it tile rieatii	ng season	Average.
Function(indicate if present)				Average(mandatory)	Yes		
cooling	Yes			Warmer(if designated)	No		
heating	Yes			Colder(if designated)	No		
neutrig	1.00			colder(ii dedigilated)	1 110		
lto vo	as maked	value	it	lto m	as male al	value	alaaa
Item	symbol	value	unit	Item	symbol	value	class
Design load			-	Seasonal efficiency and energy efficien			
cooling	Pdesigno	10.0	kW	cooling	SEER	7.41	A++
heating / Average	Pdesignh	8.50	kW	heating / Average	SCOP/A	4.47	A+
heating / Warmer	Pdesignh		kW	heating / Warmer	SCOP/W		-
heating / Colder			kW	heating / Colder	SCOP/C		
rieating / Colder	Pdesignh	-	KVV	rieating / Colder	3COF/C	-	
							unit
Declared capacity at outdoor temperat	ure Tdesigı	<u>nh</u>	_	Back up heating capacity at outdoor ter	nperature	Tdesignh	_
heating / Average (-10°C)	Pdh	8.50	kW	heating / Average (-10°C)	elbu	0	kW
heating / Warmer (2°C)	Pdh	-	kW	heating / Warmer (2°C)	elbu	-	kW
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	-	kW
rieating / Colder (-22 C)	i uii		IV V V	rieating / Colder (-22 C)	CIDU		KVV
		0=//0	0-	D			0100
Declared capacity for cooling, at indoo	r temperatu	ire 27(19)	C and	Declared energy efficiency ratio, at inde	or temper	rature 27(1	9) C and
outdoor temperature Tj			_	outdoor temperature Tj			_
Ti=35°C	Pdc	10.00	kW	Tj=35°C	EERd	3.55]_
Tj=30°C	Pdc	7.37	kW	Tj=30°C	EERd	5.60	1_
Tj=25°C	Pdc	4.74	kW	Tj=25°C	EERd	9.60	1
							- 1
Tj=20°C	Pdc	3.49	kW	Tj=20°C	EERd	15.30	<u>-</u>
Declared capacity for heating / Averag	e season, a	at indoor		Declared coefficient of performance / A	verage se	ason, at in	door
temperature 20°C and outdoor temperature				temperature 20°C and outdoor tempera		,	
Ti=-7°C	Pdh	7.40	kW	Ti=-7°C	COPd	3.05	1.
							- 1
Tj=2°C	Pdh	4.50	kW	Tj=2°C	COPd	4.15	4-
Tj=7°C	Pdh	2.90	kW	Tj=7°C	COPd	6.10	-
Tj=12°C	Pdh	2.82	kW	Tj=12°C	COPd	7.60	-
Tj=bivalent temperature	Pdh	8.50	kW	Tj=bivalent temperature	COPd	2.70	1-
Ti=operating limit	Pdh	6.30	kW	Tj=operating limit	COPd	2.25	1_
1)-operating innit	i dii	0.00	IXVV	TJ-operating limit	001 u	2.20	
				D			
Declared capacity for heating / Warme		it indoor		Declared coefficient of performance / V		ason, at in	aoor
temperature 20°C and outdoor temperature	ature Tj		_	temperature 20°C and outdoor tempera	ıture Tj		_
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-]-
Ti=7°C	Pdh	-	kW	Tj=7°C	COPd	-	1_
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	1
							-l ⁻
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	<u> </u> -
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-
Declared capacity for heating / Colder	season, at	indoor		Declared coefficient of performance / C	older seas	son, at ind	oor
temperature 20°C and outdoor temperature				temperature 20°C and outdoor tempera			
Ti=-7°C	Pdh	-	1kW	Tj=-7°C	COPd	-	1_
							4⁻
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	1-
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-]-
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	-
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	-
Ti=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	1_
Ti=-15°C	Pdh	-	kW	Tj=-15°C	COPd	-	1
1]13 C	Full	_	IV V V	1]=-13 C	COFU	_	-
B:							
Bivalent temperature			- .	Operating limit temperature			
heating / Average	Tbiv	-10	°C	heating / Average	Tol	-20	°C
heating / Warmer	Tbiv	-	°C	heating / Warmer	Tol	-	℃
heating / Colder	Tbiv	-	°c	heating / Colder	Tol	-	l°c ∣
Cycling interval capacity				Cycling interval efficiency			
	Deves		11/A/		EED		, !
for cooling	Pcycc	-	kW	for cooling	EERcyc		ļ- I
for heating	Pcych	-	kW	for heating	COPcyc	-	-
Degradation coefficient				Degradation coefficient			
cooling	Cdc	0.25	ղ .	heating	Cdh	0.25]_
Electric power input in power modes of	hor than 'a	otivo mod	0'	Annual electricity consumption			
					0	470	TLANCE !
off mode	Poff	10	W	cooling	Qce	473	kWh/a
standby mode	Psb	10	W	heating / Average	Qhe	2665	kWh/a
thermostat-off mode	Pto(cooling)	15	W	heating / Warmer	Qhe	-	kWh/a
1	Pto(heating)	30	w	heating / colder	Qhe	-	kWh/a
crankcase heater mode	Pck	5	w				,
S.G.III.OGGG FIGATOF FIGAG	1 011		1 * *				
Congoity control/indicate and of the	antions\			Other items			
Capacity control(indicate one of three	วะเบบเร)			Other items			1,15.45
1				Sound power level(indoor)	Lwa	55	dB(A)
ĺ				Sound power level(outdoor)	Lwa	69	dB(A)
fixed	No			Global warming potential	GWP	675	kgČÓ₂eq.
staged	No			Rated air flow(indoor)	-	1320	m³/h
variable	Yes			Rated air flow(outdoor)	_	4500	m³/h
variable	163			rated all how(outdool)		4500	p11 /11
Control details for 11 1 1				and a file and a size of the s			
				er or of its authorised representative.			
				tioning Europe, Ltd.			
5 The	Square, St	ockley Pa	rk, Uxbridg	e, Middlesex, UB11 1ET, United kingdom	J		
]	•	-	J	3			

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FDT125VNAWVH

	A-W / FDT125VH						
Outdoor side heat exchanger of ai		air					
Indoor side heat exchanger of air	conditioner :	air					
Type: vapour compression							
if applicable : electric mot	or						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	12.5	kW	Seasonal space cooling energy efficiency	η s,c	258.0	%
Declared cooling capacity for part	load at given outdoor	r temperatu	ıres	Declared energy	efficiency ratio or gas utilization	n efficiency /	
Tj and indoor 27°C/19°C(dry/wet b	ulb)			auxiliary energy f	actor for part load at given out	door temperatures	Tj
Tj=+35°C	Pdc	12.5	kW	Tj=+35°C	EERd or GUEc,bin / AEFc,bin	309.0	%
Tj=+30°C	Pdc	9.0	kW	Tj=+30°C	EERd or GUEc,bin / AEFc,bin	486.0	%
Tj=+25°C	Pdc	5.8	kW	Tj=+25°C	EERd or GUEc,bin / AEFc,bin	773.0	%
Tj=+20°C	Pdc	3.1	kW	Tj=+20°C	EERd or GUEc,bin / AEFc,bin	1164.0	%
Degradation							
coefficient for	Cdc	0.25	-				
air conditioners**							
Power consumpiton in other than ' Off mode Thermostat-off mode	active mode' P _{OFF} P _{TO}	0.007	kW kW	Crankcase heate Standby mode	er mode P _{CK} P _{SB}	0.005	kW kW
Other items							1
Capacity control		variable]	For air-to-air air o		4500	m³/h
Sound power level, outdoor	L_{WA}	71.0	dB				
If engine driven:			mg/kWh				
Emissions of nitrogen	NOx ***	-	fuel input				
oxides			GCV				
GWP of the		675	kgCO ₂ eq.				
refrigerant		_	(100years)				
Contact details ** If Cdc is not determined by mea	Mitsubishi heavy indu				ure chall ha 0.25		
	isarement then the di	ciauit uegli	adation coen	TOTAL AII CONTINUONE	no onali DC U,ZJ.		
*** from 26 September 2018							
Where information relates to multi-						ormance	
of the outdoor unit, with a combina	ation of indoor unit(s)	recommen	ided by the n	nanufacturer or imp	orter.		

Information to identify the model(s) to which the	e information	relates :		FDC125VN	A-W / FDT125VH				
Outdoor side heat exchanger of heat pump :		air							
Indoor side heat exchanger of heat pump :		air							
Indication if the heater is equipped with a suppl	ementary hea	ater :		١	lo				
if applicable : electric motor									
Parameters shall be declared for the average h	eating seaso	n , paramete	ers for the w	varmer and o	older heating seasons	are optional.			
Item	Symbol	Value	Unit		Item	Symbol	Va	lue	Unit
Rated heating capacity					Seasonal space heating	ng energy efficiency ηs,h			
	Prated,h	14.0	kW				172	2.1	%
Declared heating capacity for part load at indoor	or temperatur	e 20°C			Declared coefficient of	f performance or gas utilizati	on efficiency /		
and outdoor temperature Tj	, tomporata	0 20 0				for part load at given outdoo		Tj	
T _j =-7°C	Pdh	8.7	kW		T _j =-7°C	COPd or	300	0.0	%
T _j =+2°C	Pdh	5.3	kW		T _j =+2°C	GUEh,bin / AEFh,bin COPd or	425	5.0	%
T _j =+7°C	Pdh	3.4	kW		T _j =+7°C	GUEh,bin / AEFh,bin COPd or	545	5.0	%
T _j =+12°C	Pdh	2.9	kW		T _j =+12°C	GUEh,bin / AEFh,bin COPd or	719	0.0	%
T _{biv} =bivalent temperature	Pdh	9.8	kW		T _{biv} =bivalent temperature	GUEh,bin / AEFh,bin COPd or	270	0.0	%
T _{OL} =operation limit	Pdh	7.4	kW		T _{OL} =operation limit	GUEh,bin / AEFh,bin COPd or	220).0	%
For air-to-water heat pumps :	Pdh	-	kW		For air-to-water heat	GUEh,bin / AEFh,bin COPd or			%
T_{j} =-15°C (if T_{OL} <-20°C)					pumps: T_j =-15°C (if T_{OL} <-20°C)	GUEh,bin / AEFh,bin			
Bivalent temperature	T _{biv}	-10.0	°C		For water-to-air heat pumps:Operation limit				
Degradation					T _{ol} temperature				
coefficient	C_{dh}	0.25	_						
heat pumps**	oan								
Power consumpiton in modes other than 'active	e mode'				Supplementary heater		elbu -		kW
Off mode	P _{OFF}	0.007	kW		back-up heating capac	city			
Thermostat-off mode	P _{TO}	0.034	kW						
Crankcase heater mode	P _{CK}		kW		Type of energy input		P _{SB} 0.0	07	kW
oranicase neater mode	· CK	0.000	IXVV		Standby mode				
Other items					For air-to-air heat pum	ane:			
Capacity control		variable			air flow-rate,outdoor m		43	80	m³/h
Sound power level,					For water-/brine-to-air	heat pumps :			
outdoor measured	L _{WA}	71.0	dB		Rated brine or water fi	iow-rate,			m³/h
Emissions of nitrogen			mg/kWh		outdoor side heat exch	iaiigei	<u> </u>		
-	NOx	.							
oxides(if applicable)	***		fuel input GCV						
OWD - file-			l00						
GWP of the		675	kgCO₂eq. (100years)						
refrigerant			,00,0010)						
Contact details Mitsubishi	heavy indust	ries thermal	systems.LT	TD					
** If Cdh is not determined by measurement the					ers shall be 0,25.				
*** from 26 September 2018									
Where information relates to multi-spilt air cond	ditioners,the t	est result an	d performa	nce data be	obtained on the basis o	f the performance			
of the outdoor unit, with a combination of indoo						•			

FDT125VSAWVH

Model(s): FDC125VS	A-W / FDT125VH						
Outdoor side heat exchanger of a	ir conditioner :	air					
Indoor side heat exchanger of air	conditioner :	air					
Type: vapour compression							
if applicable : electric mo	tor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	12.5	kW	Seasonal space cooling energy efficiency	η s,c	258.0	%
Declared cooling capacity for part	load at given outdoor	temperati	ıres	Declared energy	efficiency ratio or gas utilization	efficiency /	
Tj and indoor 27°C/19°C(dry/wet b	oulb)			auxiliary energy f	actor for part load at given outdo	oor temperatures	Tj
Tj=+35°C	Pdc	12.5	kW	Tj=+35°C	EERd or GUEc,bin / AEFc,bin	309.0	%
Tj=+30°C	Pdc	9.0	kW	Tj=+30°C	EERd or GUEc,bin / AEFc,bin	486.0	%
Tj=+25°C	Pdc	5.8	kW	Tj=+25°C	EERd or GUEc,bin / AEFc,bin	773.0	%
Tj=+20°C	Pdc	3.1	kW	Tj=+20°C	EERd or GUEc,bin / AEFc,bin	1164.0	%
Degradation							
coefficient for	Cdc	0.25	-				
air conditioners**							
Power consumpiton in other than Off mode Thermostat-off mode	'active mode' $P_{OFF} \\ P_{TO}$	0.007	kW kW	Crankcase heate Standby mode	r mode P _{CK} P _{SB}	0.005 0.007	kW kW
memostat-on mode	т то	0.022	T _K vv	Starioby mode	ı SB	0.007]^~
Other items				For air-to-air air o	conditioner:]
Capacity control		variable		air flow-rate,outde		4500	m³/h
Sound power level, outdoor	L_{WA}	71.0	dB				
If engine driven:			mg/kWh				
Emissions of nitrogen	NOx ***	-	fuel input				
oxides			GCV				
GWP of the		675	kgCO ₂ eq.				
refrigerant			(Tooyears)				
•	Mitsubishi heavy indu						
** If Cdc is not determined by mea	asurement then the de	efault degra	adation coeffi	cient air conditione	rs shall be 0,25.		
*** from 26 September 2018							
Where information relates to mult	i-spilt air conditioners,	the test re	sult and perfo	ormance data be ob	otained on the basis of the perfor	rmance	
of the outdoor unit, with a combin	ation of indoor unit(s)	recommer	ded by the m	nanufacturer or imp	orter.		

Information to identify the model(s) to which the	e information	relates :		FDC125VS	A-W / FDT125VH				
Outdoor side heat exchanger of heat pump :		air							
Indoor side heat exchanger of heat pump :		air							
Indication if the heater is equipped with a supp	ementary hea			١	lo				
if applicable : electric motor									
Parameters shall be declared for the average I	neating seaso	n , paramete	ers for the v	varmer and o	older heating seasons	are optional.			
Item	Symbol	Value	Unit		Item	Symbol		Value	Unit
Rated heating capacity					l	ng energy efficiency ηs,h			
	Prated,h	14.0	kW		·			172.1	%
Declared heating capacity for part load at indo	or temperatur	e 20°C	<u> </u>	1	Declared coefficient of	f performance or gas utilizati	ion efficien	cv /	
and outdoor temperature Tj	or temperatur	0 20 0				for part load at given outdoo			
T _j =-7°C	Pdh	8.7	kW		T _j =-7°C	COPd or		300.0	%
T _j =+2°C	Pdh	5.3	kW		T _j =+2°C	GUEh,bin / AEFh,bin COPd or		425.0	%
T _j =+7°C	Pdh	3.4	kW		T _j =+7°C	GUEh,bin / AEFh,bin COPd or	-	545.0	%
T _j =+12°C	Pdh	2.9	kW		T _j =+12°C	GUEh,bin / AEFh,bin COPd or	-	719.0	%
T _{biv} =bivalent temperature	Pdh	9.8	kW		T _{biv} =bivalent temperature	GUEh,bin / AEFh,bin COPd or		270.0	%
T _{OL} =operation limit	Pdh	7.4	kW		T _{OL} =operation limit	GUEh,bin / AEFh,bin COPd or	-	220.0	%
For air-to-water heat pumps :	Pdh	-	kW		For air-to-water heat	GUEh,bin / AEFh,bin COPd or	-	-	%
$T_{j=-15}^{\circ}$ C (if T_{OL} <-20 $^{\circ}$ C)					pumps:T _j =-15°C (if T _{OL} <-20°C)	GUEh,bin / AEFh,bin	L		l
Bivalent temperature	T_{biv}	-10.0	°C		For water-to-air heat pumps:Operation limit		ſ		°c
Degradation					T _{ol} temperature			-	Ĭ
coefficient	C_{dh}	0.25	_						
heat pumps**	- un								
			J						
				1					
Power consumpiton in modes other than 'activ	e mode'				Supplementary heater		elbu	-	kW
Off mode	P _{OFF}	0.007	kW		back-up heating capac	city	L		l
	P _{TO}				L		Г		Ī
Thermostat-off mode Crankcase heater mode		0.034	kW		Type of energy input		P _{SB}	0.007	kW
Crankcase neater mode	P _{CK}	0.005	kW		Standby mode		L		ļ
Other items					For six to six boot num		ſ		1
Capacity control		variable			For air-to-air heat pum air flow-rate,outdoor m			4380	m³/h
Sound power level,					For water-/brine-to-air	heat numps :	Г		1
outdoor measured	L_{WA}	71.0	dB		Rated brine or water fi	iow-rate,		-	m³/h
Emissions of nitrogen			mg/kWh		outdoor side heat exch	nanger	L		I
-	NOx								
oxides(if applicable)	***		fuel input GCV						
				1					
GWP of the		675	kgCO₂eq. (100years)						
refrigerant			(100years)						
	heavy indust				nore shall be 0.05				
** If Cdh is not determined by measurement th	en tne detault	uegradatior	ı coefficient	air condition	iers snail be 0,25.				
*** from 26 September 2018									
Where information relates to multi-spilt air cond						of the performance			
of the outdoor unit, with a combination of indoc	r unit(s) reco	mmended by	the manuf	acturer or im	porter.				

FDT140VNAWVH

	A-W / FDT140VH						
Outdoor side heat exchanger of air		air					
Indoor side heat exchanger of air c	onditioner :	air					
Type: vapour compression							
if applicable : electric moto	or						
Item	Symbol	Value	Unit	Item .	Symbol	Value	Unit
Rated cooling capacity	Prated,c	13.6	kW	Seasonal space cooling energy efficiency	η s,c	243.6	%
Declared cooling capacity for part I	oad at given outdoor	r temperatu	ıres	Declared energy	efficiency ratio or gas utilization	n efficiency /	
Tj and indoor 27°C/19°C(dry/wet bu	ılb)			auxiliary energy f	factor for part load at given out	door temperatures	Tj
Tj=+35°C	Pdc	13.6	kW	Tj=+35°C	EERd or GUEc,bin / AEFc,bin	284.0	%
Tj=+30°C	Pdc	10.0	kW	Tj=+30°C	EERd or GUEc,bin / AEFc,bin	443.0	%
Tj=+25°C	Pdc	6.4	kW	Tj=+25°C	EERd or GUEc,bin / AEFc,bin	717.0	%
Tj=+20°C	Pdc	3.1	kW	Tj=+20°C	EERd or GUEc,bin / AEFc,bin	1164.0	%
Degradation						<u> </u>	
coefficient for	Cdc	0.25	-				
air conditioners**							
Power consumpiton in other than 'a Off mode Thermostat-off mode	active mode' P _{OFF} P _{TO}	0.007 0.022	kW kW	Crankcase heate Standby mode	er mode P _{CK} P _{SB}	0.005	kW kW
Other items							1
Capacity control		variable]	For air-to-air air o		4500	m³/h
Sound power level, outdoor	L_{WA}	72.0	dB				
If engine driven:			mg/kWh				
Emissions of nitrogen	NOx ***	-	fuel input				
oxides			GCV				
GWP of the		675	kgCO₂eq.				
refrigerant		0.3	(100years)				
	flitsubishi heavy indu		•				
** If Cdc is not determined by meas	surement then the de	eraurt degra	auation coeff	icient air conditione	ers shall de U,Z5.		
*** from 26 September 2018							
Where information relates to multi-						ormance	
of the outdoor unit, with a combinat	tion of indoor unit(s)	recommen	ded by the n	nanufacturer or imp	orter.		

Information to identify the model(s) to which the	e information	relates :		FDC140VN	IA-W / FDT140VH				
Outdoor side heat exchanger of heat pump :		air							
Indoor side heat exchanger of heat pump :		air							
Indication if the heater is equipped with a suppl	ementary hea	ater :		١	10				
if applicable : electric motor									
Parameters shall be declared for the average h	neating seaso	n , paramet	ers for the w	armer and o	colder heating seasons	are optional.			
Item	Symbol	Value	Unit		Item	Symbol		Value	Unit
Rated heating capacity					Seasonal space heatir	ng energy efficiency ηs,h			
	Prated,h	15.5	kW					173.9	%
				-					
Declared heating capacity for part load at indoo	or temperatur	e 20°C				f performance or gas utilization			
and outdoor temperature Tj					auxiliary energy factor	for part load at given outdoo	r temperatu	ires Ij	
T _i =-7°C	Pdh	9.0	kW		T _i =-7°C	COPd or	Г		1
,			l		,	GUEh,bin / AEFh,bin		305.0	%
T _j =+2°C	Pdh	5.6	kW		T _i =+2°C	COPd or			
,					,	GUEh,bin / AEFh,bin		430.0	%
T _j =+7°C	Pdh	3.7	kW		T _j =+7°C	COPd or		550.0	%
						GUEh,bin / AEFh,bin		550.0	70
T _j =+12°C	Pdh	2.9	kW		T _j =+12°C	COPd or		719.0	%
		1	ì			GUEh,bin / AEFh,bin	L		
T _{biv} =bivalent temperature	Pdh	10.5	kW		T _{biv} =bivalent	COPd or		250.0	%
			l		temperature	GUEh,bin / AEFh,bin	-		
T _{OL} =operation limit	Pdh	7.9	kW		T _{OL} =operation limit	COPd or		210.0	%
			l			GUEh,bin / AEFh,bin	-		
For air-to-water heat pumps :	Pdh	-	kW		For air-to-water heat	COPd or		-	%
T _j =-15°C (if T _{OL} <-20°C)					pumps:T _j =-15°C (if T _{OL} <-20°C)	GUEh,bin / AEFh,bin	L		l
(II 1 _{0L} <-20 0)					(II T _{OL} <-20 0)				
Bivalent temperature	T _{biv}	-10.0	°c		For water-to-air heat				
·	517		<u>I</u>		pumps:Operation limit				°C
Degradation					T _{ol} temperature				
coefficient	C_{dh}	0.25	_				_		
heat pumps**									
				1					
							_		1
Power consumpiton in modes other than 'active	e mode'				Supplementary heater		elbu	-	kW
Off and the	Б	0.007	l		back-up heating capac	city	L		l
Off mode Thermostat-off mode	P _{OFF} P _{TO}	0.007	kW kW		L		Г		ī
Crankcase heater mode	P _{CK}	0.005	kW		Type of energy input		P _{SB}	0.007	kW
oralinase neater mode	· CK	0.000	I		Standby mode		L		I
Other items				1					
					For air-to-air heat pum	ips:] ,,
Capacity control		variable			air flow-rate,outdoor m			4380	m³/h
							_		•
Sound power level,	L_{WA}	73.0	dB		For water-/brine-to-air	heat pumps :			
outdoor measured	-WA	70.0	ub.		Rated brine or water fi	ow-rate,		-	m³/h
			ı		outdoor side heat exch	nanger			
Emissions of nitrogen	NOx		mg/kWh						
oxides(if applicable)	***	-	fuel input						
			GCV						
				1					
GWP of the			kgCO₂eq.						
refrigerant		675	(100years)						
- ongoiant			1						
Contact details Mitsubishi	heavy indust	ries thermal	systems,LT	D					
** If Cdh is not determined by measurement the					ners shall be 0,25.				
*** from 26 September 2018									
Where information relates to multi-spilt air cond	ditioners,the t	est result an	d performar	nce data be	obtained on the basis o	f the performance			
of the outdoor unit, with a combination of indoo	r unit(s) reco	mmended by	the manufa	acturer or im	porter.				

FDT140VSAWVH

Model(s): FDC140VSA-W / F	DT140VH						
Outdoor side heat exchanger of air condit	ioner:	air					
Indoor side heat exchanger of air condition	ner:	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space			
	Prated,c	13.6	kW	cooling energy	η s,c	243.6	%
				efficiency			
Declared cooling capacity for part load at	given outdoo	or temperatu	ıres		ficiency ratio or gas utilization effic	-	
Tj and indoor 27°C/19°C(dry/wet bulb)				auxiliary energy fac	tor for part load at given outdoor to	emperatures	Tj
Tj=+35°C	Pdc	13.6	kW				1
11]-+35 C	Fuc	13.6		Tj=+35°C	EERd or	284.0	%
Tj=+30°C	Pdc	10.0	kW	T: .00%	GUEc,bin / AEFc,bin		-
	1 40	10.0		Tj=+30°C	EERd or	443.0	%
Tj=+25°C	Pdc	6.4	kW	Tj=+25°C	GUEc,bin / AEFc,bin EERd or		†
•			_		GUEc,bin / AEFc,bin	717.0	%
Tj=+20°C	Pdc	3.1	kW	Tj=+20°C	EERd or		1
			4	11, 120 0	GUEc,bin / AEFc,bin	1164.0	%
Degradation			1		0020,000771210,000		1
coefficient for	Cdc	0.25	-				
air conditioners**							
			-				
Power consumpiton in other than 'active r	node'						
			_				-
Off mode	P_{OFF}	0.007	kW	Crankcase heater r	mode P _{CK}	0.005	kW
Thermostat-off mode	P_{TO}	0.022	kW	Standby mode	P_SB	0.007	kW
Other items							7
			7	For air-to-air air cor	nditioner:	4500	m³/h
Capacity control		variable	_	air flow-rate,outdoo	r measured]
			П				
Sound power level,	L_{WA}	72.0	dB				
outdoor			_				
If anyther define]				
If engine driven:	NOx	_	mg/kWh				
Emissions of nitrogen	***		fuel input				
oxides			GCV				
GWP of the			kgCO₂eq.				
refrigerant		675	(100years)				
gorum			_				
Contact details Mitsubis	shi heavy indu	ustries then	mal systems.	LTD			
** If Cdc is not determined by measurement			•		shall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-spilt ai	conditioners	the test re	sult and perf	ormance data be obta	ined on the basis of the performan	ice	
of the outdoor unit, with a combination of							
	. ,		-	•			

Information to identify the model(s) to which	the information	relates :		FDC140VS	SA-W / FDT140VH				
Outdoor side heat exchanger of heat pump		air							
Indoor side heat exchanger of heat pump :		air							
Indication if the heater is equipped with a su	pplementary he			1	No				
if applicable : electric motor									
Parameters shall be declared for the average	e heating seas	on , paramet	ers for the w	varmer and o	colder heating seasons	are optional.			
Item	Symbol	Value	Unit		Item	Symbol		Value	Unit
Rated heating capacity	Gyillbui	Value	I			ng energy efficiency ηs,h		value	OTILL
realing capacity	Prated,h	15.5	kW		Seasonal space neath	ig energy emolericy rps,ii		173.9	%
Declared heating capacity for part load at inc	door tomporatu	ro 20°C		_	Declared coefficient of	f performance or gas utilization	on officion	2011	
and outdoor temperature Tj	100i temperatu	16 20 0				for part load at given outdoo			
and outdoor temperature 1)					auxiliary energy factor	ioi part load at giveri outdoo	or terripera	atures rj	
T _j =-7°C	Pdh	9.0	kW		T _i =-7°C	COPd or			1
1,, 0	i dii		J.vv		1,7 0			305.0	%
T _i =+2°C	Pdh	5.6	kW		T-+2°C	GUEh,bin / AEFh,bin COPd or			+
1,-120	i dii	0.0	J.vv		T _j =+2°C			430.0	%
T-17°0	Dalle	3.7	kW		T-17°0	GUEh,bin / AEFh,bin			†
T _j =+7°C	Pdh	0.7	JKVV		T _j =+7°C	COPd or		550.0	%
T .40%	D.II.	2.9	1		T .40°0	GUEh,bin / AEFh,bin			+
T _j =+12°C	Pdh	2.3	kW		T _j =+12°C	COPd or		719.0	%
T =bivelent ter:	DII-	40.5	l.,,,,		T = bis = 1 = -4	GUEh,bin / AEFh,bin			1
T _{biv} =bivalent temperature	Pdh	10.5	kW		T _{biv} =bivalent temperature	COPd or		250.0	%
T an analysis that	D.II.	7.0	1			GUEh,bin / AEFh,bin			1
T _{OL} =operation limit	Pdh	7.9	kW		T _{OL} =operation limit	COPd or		210.0	%
			1			GUEh,bin / AEFh,bin			-
For air-to-water heat pumps :	Pdh	-	kW		For air-to-water heat	COPd or		-	%
T _j =-15°C					pumps:T _j =-15°C	GUEh,bin / AEFh,bin]
(if T _{OL} <-20°C)					(if T _{OL} <-20°C)				
			1						1
Bivalent temperature	T _{biv}	-10.0	°C		For water-to-air heat				
			1		pumps:Operation limit			-	°C
Degradation					T _{ol} temperature]
coefficient	C_{dh}	0.25	-						
heat pumps**]						
							ı		7
Power consumpiton in modes other than 'ac	tive mode'				Supplementary heater		elbu	-	kW
					back-up heating capac	city]
Off mode	P _{OFF}	0.007	kW						7
Thermostat-off mode	P _{TO}	0.034	kW		Type of energy input		P_{SB}	0.007	kW
Crankcase heater mode	P _{CK}	0.005	kW		Standby mode		-]
Other items									7
					For air-to-air heat pum	nps:		4380	m³/h
Capacity control		variable]		air flow-rate,outdoor m	neasured			
									-
Sound power level,	L_{WA}	73.0	dB		For water-/brine-to-air	heat pumps :			
outdoor measured	-WA				Rated brine or water fi	iow-rate,		-	m³/h
					outdoor side heat exch	hanger]
Emissions of nitrogen			mg/kWh						
oxides(if applicable)	NOx ***	-	fuel input						
			GCV						
			_						
GWP of the		675	kgCO₂eq.						
refrigerant		6/5	(100years)						
Contact details Mitsubis	shi heavy indus	tries thermal	systems,LT	D	•				
** If Cdh is not determined by measurement					ners shall be 0,25.				
*** from 26 September 2018									
Where information relates to multi-spilt air co	onditioners the	test result an	id performar	nce data he	obtained on the basis o	f the performance			
of the outdoor unit, with a combination of inc									
January String	(2) 1000	2200 D	,		•				
L									

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FDT125VNAWPVH

	A-W / FDT60VH (x2 ι	units)					
Outdoor side heat exchanger of air		air					
Indoor side heat exchanger of air c	onditioner :	air					
Type: vapour compression							
if applicable : electric moto	or						
Item	Symbol	Value	Unit	Item I	Symbol	Value	Unit
Rated cooling capacity	Prated,c	12.5	kW	Seasonal space efficiency ηs,c	e cooling energy	315.5	%
Declared cooling capacity for part le	_	temperatu	ıres	ll	y efficiency ratio or gas utilization	•	•
Tj and indoor 27°C/19°C(dry/wet bu	ılb)			auxiliary energy	factor for part load at given outd	oor temperatures	Tj
Tj=+35°C	Pdc	12.5	kW	Tj=+35°C	EERd or GUEc,bin / AEFc,bin	330.0	%
Tj=+30°C	Pdc	9.2	kW	Tj=+30°C	EERd or GUEc,bin / AEFc,bin	519.0	%
Tj=+25°C	Pdc	5.9	kW	Tj=+25°C	EERd or GUEc,bin / AEFc,bin	950.0	%
Tj=+20°C	Pdc	3.6	kW	Tj=+20°C	EERd or GUEc,bin / AEFc,bin	1960.0	%
Degradation							
coefficient for	Cdc	0.25	-				
air conditioners**			_				
Power consumpiton in other than 'a Off mode Thermostat-off mode	P _{OFF}	0.008	kW kW	Crankcase hea Standby mode	ter mode P _{CK} P _{SB}	0.005 0.008	kW kW
Other items							Ī
Capacity control		variable]	For air-to-air air air flow-rate,out		4500	m³/h
Sound power level, outdoor	L_{WA}	71.0	dB				
If engine driven:			mg/kWh				
Emissions of nitrogen	NOx ***	-	fuel input				
oxides			GCV				
GWP of the		675	kgCO₂eq.				
refrigerant			(100years)				
Contact details N	litsubishi heavy indu	stries ther	mal systems,	LTD			
** If Cdc is not determined by meas	surement then the de	efault degra	adation coeff	icient air conditior	ners shall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-	spilt air conditioners,	the test re	sult and perf	ormance data be	obtained on the basis of the perfo	rmance	
of the outdoor unit, with a combinat	tion of indoor unit(s)	recommer	ided by the n	nanufacturer or im	porter.		

Information to identify the model(s) to which the	e information	relates :		FDC125VN	A-W / FDT60VH (x2 ur	nits)			
Outdoor side heat exchanger of heat pump :		air							
Indoor side heat exchanger of heat pump :		air							
Indication if the heater is equipped with a suppl	lementary hea	ater :		١	lo				
if applicable : electric motor									
Parameters shall be declared for the average h	neating seaso	n , paramet	ers for the w	armer and o	older heating seasons	are optional.			
Item	Symbol	Value	Unit		Item	Symbol		Value	Unit
Rated heating capacity					Seasonal space heatir	ng energy efficiency ηs,h			
	Prated,h	14.0	kW					205.1	%
		0000		ł					
Declared heating capacity for part load at indoor	or temperatur	e 20°C				f performance or gas utilization	-		
and outdoor temperature Tj					auxiliary energy factor	for part load at given outdoo	r temperatur	es ij	
T _i =-7°C	Pdh	8.7	kW		T _i =-7°C	COPd or			
,					,	GUEh,bin / AEFh,bin	;	328.0	%
T _j =+2°C	Pdh	5.3	kW		T _j =+2°C	COPd or		508.0	%
						GUEh,bin / AEFh,bin		500.0	70
T _j =+7°C	Pdh	3.4	kW		T _j =+7°C	COPd or	Ι.	662.0	%
			1			GUEh,bin / AEFh,bin			
T _j =+12°C	Pdh	3.0	kW		T _j =+12°C	COPd or	,	985.0	%
		0.0	l			GUEh,bin / AEFh,bin	<u> </u>		
T _{biv} =bivalent temperature	Pdh	9.8	kW		T _{biv} =bivalent temperature	COPd or	[:	270.0	%
T =operation limit	Pdh	7.4	kW		·	GUEh,bin / AEFh,bin COPd or	\vdash		
T _{OL} =operation limit	i-uii		I _{VAA}		T _{OL} =operation limit		:	220.0	%
For air-to-water heat pumps :	Pdh	-	kW		For air-to-water heat	GUEh,bin / AEFh,bin COPd or			
T _i =-15°C	i dii		lvvv		pumps:T _i =-15°C	GUEh,bin / AEFh,bin		-	%
(if T _{OL} <-20°C)					(if T _{OL} <-20°C)				
			_						
Bivalent temperature	T_{biv}	-10.0	°C		For water-to-air heat				
			,		pumps:Operation limit			-	°C
Degradation					T _{ol} temperature				
coefficient	C_{dh}	0.25	-						
heat pumps**			l						
				-					
Power consumpiton in modes other than 'active	e mode'				Supplementary heater				
l ower consumption in modes other than activi	e mode				back-up heating capac		elbu	-	kW
Off mode	P _{OFF}	0.008	kW		baok up noating capac	only .			
Thermostat-off mode	P _{TO}	0.020	kW		Type of energy input		P _{SB}	0.008	1447
Crankcase heater mode	P _{CK}	0.005	kW		Standby mode		rsb t	0.006	kW
				1					
Other items							_		
			1		For air-to-air heat pum	nps:		4380	m3/h
Capacity control		variable	l		air flow-rate,outdoor m	neasured			
			1		L				
Sound power level,	L_{WA}	71.0	dB		For water-/brine-to-air				m³/h
outdoor measured			l		Rated brine or water fi				
Emissions of nitrogen			mg/kWh		outdoor side heat exch	goi	<u> </u>		
oxides(if applicable)	NOx ***	-	fuel input						
,			GCV						
			-						
			1						
GWP of the		675	kgCO ₂ eq.						
refrigerant			(100years)						
L					1				
Contact details Mitsubishi ** If Cdh is not determined by measurement the	heavy indust en the default				ers shall be 0.25				
*** from 26 September 2018	o uro uciauli	. acgradatiOi	. Journald	an contaitiOl	onan bo 0,20.				
Where information relates to multi-spilt air cond	ditioners the t	est result an	d performar	nce data he	obtained on the basis o	f the performance			
of the outdoor unit, with a combination of indoo									
	. ,								

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FDT125VSAWPVH

	-W / FDT60VH (x2 ι	ınits)					
Outdoor side heat exchanger of air		air					
Indoor side heat exchanger of air o	onditioner :	air					
Type: vapour compression							
if applicable : electric moto	or						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	12.5	kW	Seasonal space efficiency ηs,c	e cooling energy	315.5	%
Declared cooling capacity for part I Tj and indoor 27°C/19°C(dry/wet bu	_	temperatu	ıres	ll	y efficiency ratio or gas utilization r factor for part load at given outd	•	Tj
Tj=+35°C	Pdc	12.5	kW	Tj=+35°C	EERd or GUEc,bin / AEFc,bin	330.0	%
Tj=+30°C	Pdc	9.2	kW	Tj=+30°C	EERd or GUEc,bin / AEFc,bin	519.0	%
Tj=+25°C	Pdc	5.9	kW	Tj=+25°C	EERd or GUEc,bin / AEFc,bin	950.0	%
Tj=+20°C	Pdc	3.6	kW	Tj=+20°C	EERd or GUEc,bin / AEFc,bin	1960.0	%
Degradation							
coefficient for	Cdc	0.25	-				
air conditioners**							
Power consumpiton in other than 'a Off mode Thermostat-off mode	ective mode' P _{OFF} P _{TO}	0.008	kW kW	Crankcase hear	ter mode P _{CK} P _{SB}	0.005	kW kW
Other items							1
Capacity control		variable		For air-to-air air air flow-rate,out	conditioner:	4500	m³/h
Sound power level, outdoor	L_{WA}	71.0	dB				
If engine driven:			mg/kWh				
Emissions of nitrogen	NOx ***	-	fuel input				
oxides			GCV				
GWP of the		675	kgCO₂eq.				
refrigerant			(100years)				
Contact details ** If Cdc is not determined by mea:	Mitsubishi heavy indu				ners shall be 0.25		
	and the de	dogi		an condition	0.10.1 00 0,20.		
*** from 26 September 2018 Where information relates to multi-	enilt air conditioners	the test re	cult and no-f	ormance data ha	obtained on the basis of the sorte	ırmance	
Where information relates to multi- of the outdoor unit, with a combination						ппапсе	
or the outdoor unit, with a combina	tion of maoor unit(s)	recommer	ided by the h	ianulacturer or im	porter.		

Information to identify the model(s) to which th	e information	relates :		FDC125VS	:A-W / FDT60VH (x2 ur	nits)		
Outdoor side heat exchanger of heat pump :		air			,	,		
Indoor side heat exchanger of heat pump :		air						
Indication if the heater is equipped with a supp	lementary hea	ater :		١	lo .			
if applicable : electric motor								
Parameters shall be declared for the average	heating seaso	n , paramete	ers for the w	armer and o	colder heating seasons	are optional.		
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity					Seasonal space heatir	ng energy efficiency ηs,h		
	Prated,h	14.0	kW				205.1	%
Declared heating capacity for part load at indo	or temperatur	e 20°C			Declared coefficient of	f performance or gas utilization effic	iency /	
and outdoor temperature Tj					auxiliary energy factor	for part load at given outdoor temp	eratures Tj	
								.
T _j =-7°C	Pdh	8.7	kW		T _j =-7°C	COPd or	328.0	%
			i			GUEh,bin / AEFh,bin		
T _j =+2°C	Pdh	5.3	kW		T _j =+2°C	COPd or	508.0	%
			1			GUEh,bin / AEFh,bin		
T _j =+7°C	Pdh	3.4	kW		T _j =+7°C	COPd or	662.0	%
			1			GUEh,bin / AEFh,bin		
T _j =+12°C	Pdh	3.0	kW		T _j =+12°C	COPd or	985.0	%
						GUEh,bin / AEFh,bin		
T _{biv} =bivalent temperature	Pdh	9.8	kW		T _{biv} =bivalent	COPd or	270.0	%
			ı		temperature	GUEh,bin / AEFh,bin		
T _{OL} =operation limit	Pdh	7.4	kW		T _{OL} =operation limit	COPd or	220.0	%
			ı			GUEh,bin / AEFh,bin		
For air-to-water heat pumps :	Pdh	-	kW		For air-to-water heat	COPd or	-	%
T _j =-15°C					pumps:T _j =-15°C	GUEh,bin / AEFh,bin		
(if T _{OL} <-20°C)					(if T _{OL} <-20°C)			
			ı					1
Bivalent temperature	T _{biv}	-10.0	°C		For water-to-air heat			0-
			ı		pumps:Operation limit		-	℃
Degradation					T _{ol} temperature]
coefficient	C_{dh}	0.25	-					
heat pumps**								
				ł				
								1
Power consumpiton in modes other than 'activ	e mode'				Supplementary heater	eibu	-	kW
Off mode	P _{OFF}	0.008	kW		back-up heating capac	city		l
Thermostat-off mode	P _{TO}	0.000	kW		L			i l
Crankcase heater mode	P _{CK}		kW		Type of energy input	P_{SB}	0.008	kW
Cranicase fleater flidde	' CK	0.003	KVV		Standby mode]
Other items				1				
Other items					Far air ta air baat aun]
Common its annual section in the section is a section in the section in the section in the section is a section in the section		variable			For air-to-air heat pum		4380	m³/h
Capacity control		Va. 14.510	l		air flow-rate,outdoor m	neasured		l
Sound power level,					For water /bring to air	hoot numno :		1
outdoor measured	L_{WA}	71.0	dB		For water-/brine-to-air Rated brine or water fi		_	m³/h
outdoor measured			ı		outdoor side heat exch			
Emissions of nitrogen			mg/kWh			. V=:		'
oxides(if applicable)	NOx ***	-	fuel input					
omass(ii applicasis)			GCV					
				1				
GWP of the			kgCO₂eq.					
refrigerant		675	(100years)					
			•					
				<u></u>				
Contact details Mitsubishi	heavy indust	ries thermal	systems,LT	D				
** If Cdh is not determined by measurement th					ners shall be 0,25.			
*** from 26 September 2018								
Where information relates to multi-spilt air con-	ditioners,the t	est result an	d performar	nce data be	obtained on the basis o	f the performance		
of the outdoor unit, with a combination of indoo								

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FDT140VNAWPVH

Model(s): FDC140VNA-W / F	DT71VH (x2	units)					
Outdoor side heat exchanger of air condit	tioner:	air					
Indoor side heat exchanger of air condition	oner:	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space	cooling energy		
	Prated,c	13.6	kW	efficiency ηs,c		313.3	%
Declared cooling capacity for part load at	given outdoo	or temperatu	ures	Declared energy	y efficiency ratio or gas utilization	efficiency /	
Tj and indoor 27°C/19°C(dry/wet bulb)				auxiliary energy	factor for part load at given outd	oor temperatures	Tj
T' .05°0	D.I.	40.0	7				1
Tj=+35°C	Pdc	13.6	kW	Tj=+35°C	EERd or	322.0	%
Tj=+30°C	Dda	10.0	T _I		GUEc,bin / AEFc,bin		
1]-+30 C	Pdc	10.0	kW	Tj=+30°C	EERd or	530.0	%
Tj=+25°C	Pdc	6.4	kW	T:- + 05°0	GUEc,bin / AEFc,bin		}
.,	. 40	J.7	٦	Tj=+25°C	EERd or	870.0	%
Tj=+20°C	Pdc	3.7	kW	Ti-+20°C	GUEc,bin / AEFc,bin		1
			_	Tj=+20°C	EERd or GUEc,bin / AEFc,bin	2200.0	%
Degradation			7		GOLO,DIII / ALITO,DIII		1
coefficient for	Cdc	0.25	_				
air conditioners**	ouo						
a co			_				
Power consumpiton in other than 'active r	mode'						
·							
Off mode	P_{OFF}	0.008	kW	Crankcase heat	er mode P _{CK}	0.005	kW
Thermostat-off mode	P_{TO}	0.000	kW	Standby mode	P_{SB}	0.008	kW
Other items							T
			7	For air-to-air air	conditioner:	4500	m³/h
Capacity control		variable	╛	air flow-rate,out	door measured]
			7				
Sound power level,	L_{WA}	72.0	dB				
outdoor			_				
			П				
If engine driven:	NOx		mg/kWh				
Emissions of nitrogen	***	-	fuel input				
oxides			GCV				
GWP of the			kgCO₂eq.				
		675	(100years)				
refrigerant			_				
Contact details Mitsubis	shi heavy ind	ustries then	mal systems	LTD			
** If Cdc is not determined by measurement					ers shall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-spilt ai	r conditioners	s,the test re	sult and perfe	ormance data be o	obtained on the basis of the perfo	rmance	
of the outdoor unit, with a combination of							
,		,	,		•		

Information to identify the model(s) to which the	e information	relates :	FDC140VN	NA-W / FDT71VH (x2 u	nits)		
Outdoor side heat exchanger of heat pump :		air		`	,		
Indoor side heat exchanger of heat pump :		air					
Indication if the heater is equipped with a supp	olementary he	ater:	I	No			
if applicable : electric motor							
Parameters shall be declared for the average	heating seaso	on , parameters for th	e warmer and	colder heating seasons	are optional.		
Item	Symbol	Value Unit		Item	Symbol	Value	Unit
Rated heating capacity				Seasonal space heating	ng energy efficiency ηs,h		
	Prated,h	15.5 kW				201.6	%
Declared heating capacity for part load at indo	or temperatur	e 20°C		Declared coefficient of	f performance or gas utilization efficie	ency /	
and outdoor temperature Tj				auxiliary energy factor	for part load at given outdoor tempe	ratures Tj	
							,
T _j =-7°C	Pdh	9.3 kW		T _j =-7°C	COPd or	330.0	%
					GUEh,bin / AEFh,bin		
T _j =+2°C	Pdh	5.6 kW		T _j =+2°C	COPd or	500.0	%
					GUEh,bin / AEFh,bin		
T _j =+7°C	Pdh	3.6 kW		T _j =+7°C	COPd or	640.0	%
					GUEh,bin / AEFh,bin		
T _j =+12°C	Pdh	3.0 kW		T _j =+12°C	COPd or	940.0	%
T =hivelent towt	Dali-	10.5		T = lab c=1 = -4	GUEh,bin / AEFh,bin	-	
T _{biv} =bivalent temperature	Pdh	10.5 kW		T _{biv} =bivalent temperature	COPd or	270.0	%
T =operation limit	Pdh	7.9 kW			GUEh,bin / AEFh,bin		
T _{OL} =operation limit	rull	KVV		T _{OL} =operation limit	COPd or	220.0	%
For air-to-water heat pumps :	Pdh	- kW		For air-to-water heat	GUEh,bin / AEFh,bin COPd or		
T _i =-15°C	Full	KVV		pumps:T _i =-15°C	GUEh,bin / AEFh,bin	-	%
(if T _{OL} <-20°C)				(if T _{OL} <-20°C)	och, om 7 km, om		1
(ii - OL 1 20 0)				(· OL < 20 0)			
Bivalent temperature	T _{biv}	-10.0 °C		For water-to-air heat]
		<u> </u>		pumps:Operation limit	t	-	°C
Degradation				T _{ol} temperature			
coefficient	C_{dh}	0.25					•
heat pumps**							
							,
Power consumpiton in modes other than 'activ	ve mode'			Supplementary heater	r elbu	_	kW
				back-up heating capac			
Off mode	P _{OFF}	0.008 kW					,
Thermostat-off mode	P _{TO}	0.020 kW		Type of energy input	P_{SB}	0.008	kW
Crankcase heater mode	P _{CK}	0.005 kW		Standby mode]
Other items							ı
		veriable		For air-to-air heat purr		4380	m³/h
Capacity control		variable		air flow-rate,outdoor m	neasured]
							1
Sound power level,	L_{WA}	73.0 dB		For water-/brine-to-air			m³/h
outdoor measured				Rated brine or water fi			
Emissions of nitrogen		mg/kWh	.	outdoor side heat excl	goi	<u> </u>	ı
oxides(if applicable)	NOx	- fuel inpu					
omass(ii applicable)		GCV					
GWP of the		675 kgCO ₂ e	q.				
refrigerant		(100yea	rs)				
		- 					
Contact details Mitsubish	i heavy indust	ries thermal systems	,LTD				
** If Cdh is not determined by measurement the	nen the defaul	t degradation coeffici	ent air conditio	ners shall be 0,25.			
*** from 26 September 2018							
Where information relates to multi-spilt air con	ditioners,the t	est result and perform	mance data be	obtained on the basis of	of the performance		
of the outdoor unit, with a combination of indoo	or unit(s) reco	mmended by the mai	nufacturer or in	nporter.			

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FDT140VSAWPVH

	4-W / FDT71VH (x2 u	nits)					
Outdoor side heat exchanger of air		air					
Indoor side heat exchanger of air of	conditioner :	air					
Type: vapour compression							
if applicable : electric moto	or						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	13.6	kW	Seasonal space efficiency ηs,c	e cooling energy	313.3	%
Declared cooling capacity for part I Tj and indoor 27°C/19°C(dry/wet bu	_	temperatu	ıres	1	y efficiency ratio or gas utilization factor for part load at given outdo	•	Тј
Tj=+35°C	Pdc	13.6	kW	Tj=+35°C	EERd or GUEc,bin / AEFc,bin	322.0	%
Tj=+30°C	Pdc	10.0	kW	Tj=+30°C	EERd or GUEc,bin / AEFc,bin	530.0	%
Tj=+25°C	Pdc	6.4	kW	Tj=+25°C	EERd or GUEc,bin / AEFc,bin	870.0	%
Tj=+20°C	Pdc	3.7	kW	Tj=+20°C	EERd or GUEc,bin / AEFc,bin	2200.0	%
Degradation coefficient for air conditioners**	Cdc	0.25	-		3325,5, <u>L.</u> 3,5		1
Power consumpiton in other than 'a Off mode Thermostat-off mode	P _{OFF} P _{TO}	0.008	kW kW	Crankcase heat Standby mode	rer mode P _{CK} P _{SB}	0.005	kW kW
Other items				For air-to-air air	conditioner:		1
Capacity control	[variable		air flow-rate,out		4500	m³/h
Sound power level, outdoor	L _{WA}	72.0	dB				
If engine driven: Emissions of nitrogen oxides	NOx ***	-	mg/kWh fuel input GCV				
GWP of the refrigerant		675	kgCO₂eq. (100years)				
Contact details ** If Cdc is not determined by mea *** from 26 September 2018 Where information relates to multi-		fault degra	adation coeff	icient air condition		rmance	
of the outdoor unit, with a combina	tion of indoor unit(s) i	recommen	ded by the n	nanufacturer or im	porter.		

Information to identify the model(s) to w	hich the information	relates :		FDC140VS	6A-W / FDT71VH (x2 ui	nits)			
Outdoor side heat exchanger of heat po	ımp :	air							
Indoor side heat exchanger of heat pun		air							
Indication if the heater is equipped with				1	No				
if applicable : electric motor									
Parameters shall be declared for the av	rerage heating seaso	on , paramete	rs for the wa	armer and o	colder heating seasons	are optional.			
			Unit			Symbol		Value	Unit
Item	Symbol	value (Jilli		Item			value	OTIIL
Rated heating capacity	Prated,h	15.5	kW		Seasonal space neath	ng energy efficiency ηs,h		201.6	%
		10.0						200	,,,
Declared benefits a consider for any declared	-	- 0000			D	ff		1	
Declared heating capacity for part load	at indoor temperatur	e 20 C				f performance or gas utilizati			
and outdoor temperature Tj					auxiliary energy factor	for part load at given outdoo	or tempera	tures 1j	
T = 7°0	Dalla	9.3	kW		T = 7°0	00Pd	F		ī
T _j =-7°C	Pdh	0.0	KVV		T _j =-7°C	COPd or		330.0	%
T +0%0	D.III	5.6			T +0%0	GUEh,bin / AEFh,bin	ŀ		-
T _j =+2°C	Pdh	5.6	kW		T _j =+2°C	COPd or		500.0	%
		20				GUEh,bin / AEFh,bin	ŀ		+
T _j =+7°C	Pdh	3.6	kW		T _j =+7°C	COPd or		640.0	%
						GUEh,bin / AEFh,bin	}		-
T _j =+12°C	Pdh	3.0	kW		T _j =+12°C	COPd or		940.0	%
						GUEh,bin / AEFh,bin	}		1
T _{biv} =bivalent temperature	Pdh	10.5	kW		T _{biv} =bivalent	COPd or		270.0	%
					temperature	GUEh,bin / AEFh,bin			-
T _{OL} =operation limit	Pdh	7.9	kW		T _{OL} =operation limit	COPd or		220.0	%
						GUEh,bin / AEFh,bin			1
For air-to-water heat pumps :	Pdh	-	kW		For air-to-water heat	COPd or		-	%
T _j =-15°C					pumps:T _j =-15°C	GUEh,bin / AEFh,bin	L]
(if T _{OL} <-20°C)					(if T _{OL} <-20°C)				
									7
Bivalent temperature	T _{biv}	-10.0	C		For water-to-air heat				
					pumps:Operation limit			-	°C
Degradation					T _{ol} temperature		L]
coefficient	C_{dh}	0.25							
heat pumps**									
							_		-
Power consumpiton in modes other that	n 'active mode'				Supplementary heater	r	elbu		kW
					back-up heating capac	city	Ciba		
Off mode	P _{OFF}	0.008	kW				_		_
Thermostat-off mode	P _{TO}	0.020	kW		Type of energy input		P _{SB}	0.008	kW
Crankcase heater mode	P _{CK}	0.005	kW		Standby mode		' SB	0.008	KVV
Other items									_
					For air-to-air heat pum	nps:		4200	ana 3 /la
Capacity control		variable			air flow-rate,outdoor m			4380	m³/h
									•
Sound power level,		70.6	4D		For water-/brine-to-air	heat pumps :	ſ]
outdoor measured	L_{WA}	73.0	dB		Rated brine or water f			-	m³/h
					outdoor side heat excl				
Emissions of nitrogen		l,	mg/kWh			-			•
oxides(if applicable)	NOx ***		fuel input						
			GCV						
GWP of the			kgCO₂eq.						
refrigerant			(100years)						
i o.i.gorum									
Contact details Mit	euhiehi hoove inde	rice thormal	vetems I T	<u> </u>	l .				
** If Cdh is not determined by measure	subishi heavy indust ment then the defaul				ners shall be 0.25				
	and a defaul	. 209. 4441011	- 50010111	00/10/10/01	5.10.1. 25 0,20.				
*** from 26 September 2018	ata a sa attat			4-4 1	and the second second second	f the constraints			
Where information relates to multi-spilt						tne performance			
of the outdoor unit, with a combination	or indoor unit(s) reco	mmended by	tne manufa	ecturer or in	porter.				

PJF000Z589 🛕

FDT140VNAWTVH

	A-W / FDT50VH (x3 u	ınits)					
Outdoor side heat exchanger of ai	r conditioner :	air					
Indoor side heat exchanger of air	conditioner :	air					
Type: vapour compression							
if applicable : electric mot	or						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	13.6	kW	Seasonal space efficiency ηs,c	e cooling energy	313.3	%
Declared cooling capacity for part Tj and indoor 27°C/19°C(dry/wet b	_	temperatu	ıres		y efficiency ratio or gas utilization factor for part load at given outdo	•	Тј
Tj=+35°C	Pdc	13.6	kW	Tj=+35°C	EERd or	322.0	%
Tj=+30°C	Pdc	10.0	kW	Tj=+30°C	GUEc,bin / AEFc,bin EERd or GUEc,bin / AEFc,bin	530.0	%
Tj=+25°C	Pdc	6.4	kW	Tj=+25°C	EERd or GUEc,bin / AEFc,bin	870.0	%
Tj=+20°C	Pdc	3.7	kW	Tj=+20°C	EERd or GUEc,bin / AEFc,bin	2200.0	%
Degradation							
coefficient for	Cdc	0.25	-				
air conditioners**							
Power consumpiton in other than ' Off mode Thermostat-off mode	P _{OFF} P _{TO}	0.008	kW kW	Crankcase head Standby mode	ter mode P _{CK}	0.005 0.008	kW kW
Other items				For air-to-air air	conditioner		1
Capacity control		variable		air flow-rate,out		4500	m³/h
Sound power level, outdoor	L _{WA}	72.0	dB				
If engine driven:			mg/kWh				
Emissions of nitrogen	NOx ***	-	fuel input				
oxides			GCV				
GWP of the		675	kgCO₂eq.				
refrigerant			(100years)				
Contact details ** If Cdc is not determined by mea	Mitsubishi heavy indus				ers shall be 0.25.		
		3.			-, -		
*** from 26 September 2018	enilt air conditiona	the test r-	eult and sa-f	ormanco doto b-	obtained on the basis of the next-	rmance	
Where information relates to multi						rmance	
of the outdoor unit, with a combina	ation of indoor unit(s) i	recommer	ided by the n	nanufacturer or im	porter.		
<u> </u>							

Information to identify the model(s) to which the	e information	relates :	FDC140VN	IA-W / FDT50VH (x3 ur	nits)		
Outdoor side heat exchanger of heat pump :		air		,	,		
Indoor side heat exchanger of heat pump :		air					
Indication if the heater is equipped with a supp	ementary he	ater :	1	No			
if applicable : electric motor							
Parameters shall be declared for the average	heating seaso	on , parameters f	or the warmer and o	colder heating seasons	are optional.		
Item	Symbol	Value Unit	t	Item	Symbol	Value	Unit
Rated heating capacity				Seasonal space heatir	ng energy efficiency ηs,h		
	Prated,h	15.5	kW			201.6	%
Declared heating capacity for part load at indo	or temperatur	e 20°C		Declared coefficient of	f performance or gas utilization efficie	ncy /	
and outdoor temperature Tj				auxiliary energy factor	for part load at given outdoor temper	atures Tj	
							,
T _j =-7°C	Pdh	9.3 kW		T _j =-7°C	COPd or	330.0	%
					GUEh,bin / AEFh,bin		
T _j =+2°C	Pdh	5.6 kW		T _j =+2°C	COPd or	500.0	%
					GUEh,bin / AEFh,bin		
T _j =+7°C	Pdh	3.6 kW		T _j =+7°C	COPd or	640.0	%
					GUEh,bin / AEFh,bin		
T _j =+12°C	Pdh	3.0 kW		T _j =+12°C	COPd or	940.0	%
T bireland to account	D.II.	40.5		T. Abbelle !	GUEh,bin / AEFh,bin		
T _{biv} =bivalent temperature	Pdh	10.5 kW		T _{biv} =bivalent temperature	COPd or	270.0	%
T -apparation limit	Pdh	7.9 kW			GUEh,bin / AEFh,bin	—	
T _{OL} =operation limit	Pan	7.9 KVV		T _{OL} =operation limit	COPd or	220.0	%
For all to water hand and	Dal-			For oir to cont	GUEh,bin / AEFh,bin		
For air-to-water heat pumps : T _i =-15°C	Pdh	- kW		For air-to-water heat pumps:T _i =-15°C	COPd or GUEh,bin / AEFh,bin	-	%
(if T _{OL} <-20°C)				(if T _{OL} <-20°C)	GOEII,DIII / AEI II,DIII		1
(II 10L <-20 0)				(II 1 _{OL} <-20 0)			
Bivalent temperature	T _{biv}	-10.0 °C		For water-to-air heat			1
	- DIV			pumps:Operation limit		_	°C
Degradation				T _{ol} temperature			
coefficient	C_{dh}	0.25					•
heat pumps**							
							_
Power consumpiton in modes other than 'activ	e mode'			Supplementary heater	elbu	_	kW
				back-up heating capac			NVV
Off mode	P _{OFF}	0.008 kW					.
Thermostat-off mode	P _{TO}	0.020 kW		Type of energy input	P_SB	0.008	kW
Crankcase heater mode	P _{CK}	0.005 kW		Standby mode	. 35	0.000	
Other items							,
				For air-to-air heat pum	nps:	4380	m³/h
Capacity control		variable		air flow-rate,outdoor m	neasured]
							, l
Sound power level,	L_{WA}	73.0 dB		For water-/brine-to-air			3/la
outdoor measured				Rated brine or water fi		-	m³/h
Control and of the				outdoor side heat exch	nanger	<u> </u>	ı
Emissions of nitrogen	NOx		/kWh				
oxides(if applicable)	***		input				
		GC'	v				
GWP of the		kaC	CO ₂ eq.				
refrigerant			Oyears)				
Contact details Mitsubish	i heavy indust	ries thermal syst	tems,LTD				
** If Cdh is not determined by measurement the				ners shall be 0,25.			
*** from 26 September 2018							
Where information relates to multi-spilt air con	ditioners,the t	est result and pe	erformance data be	obtained on the basis of	f the performance		
of the outdoor unit, with a combination of indoor					•		
		-					

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FDT140VSAWTVH

	iA-W / FDT50VH (x3 ι	units)					
Outdoor side heat exchanger of a	ir conditioner :	air					
Indoor side heat exchanger of air	conditioner :	air					
Type: vapour compression							
if applicable : electric mot	tor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	13.6	kW	Seasonal space efficiency ηs,c	e cooling energy	313.3	%
Declared cooling capacity for part Tj and indoor 27°C/19°C(dry/wet b	_	r temperatu	ıres	ll	y efficiency ratio or gas utilization factor for part load at given outd	•	Тј
Tj=+35°C	Pdc	13.6	kW	Tj=+35°C	EERd or	322.0	%
Tj=+30°C	Pdc	10.0	kW	Tj=+30°C	GUEc,bin / AEFc,bin EERd or GUEc,bin / AEFc,bin	530.0	%
Tj=+25°C	Pdc	6.4	kW	Tj=+25°C	EERd or GUEc,bin / AEFc,bin	870.0	%
Tj=+20°C	Pdc	3.7	kW	Tj=+20°C	EERd or GUEc,bin / AEFc,bin	2200.0	%
Degradation							
coefficient for	Cdc	0.25	-				
air conditioners**							
Power consumpiton in other than Off mode Thermostat-off mode	'active mode' P_{OFF} P_{TO}	0.008	kW kW	Crankcase heat	ter mode P _{CK} P _{SB}	0.005	kW kW
Other items				For air-to-air air	conditioner]
Capacity control		variable		air flow-rate,out		4500	m³/h
Sound power level, outdoor	L_{WA}	72.0	dB				
If engine driven:			mg/kWh				
Emissions of nitrogen	NOx ***	-	fuel input				
oxides			GCV				
GWP of the		675	kgCO ₂ eq.				
refrigerant			(100years)				
Contact details ** If Cdc is not determined by mea	Mitsubishi heavy indu				ners shall be 0.25		
		aogi					
*** from 26 September 2018	i onilt oir condition	the test ==	oult and ne-f	ormanoo data k-	obtained on the basis of the	armanaa	
Where information relates to multi						ormance	
of the outdoor unit, with a combination	ation of indoor unit(s)	recommer	ided by the n	nanufacturer or im	porter.		

Information to identify the model(s) to which the	e information	relates :		FDC140VS	A-W / FDT50VH (x3 ur	nits)			
Outdoor side heat exchanger of heat pump :		air							
Indoor side heat exchanger of heat pump :		air							
Indication if the heater is equipped with a suppl	ementary he	ater :		١	lo				
if applicable : electric motor									
Parameters shall be declared for the average h	eating seaso	n , paramete	ers for the v	varmer and o	older heating seasons	are optional.			
Item	Symbol	Value	Unit		Item	Symbol		Value	Unit
Rated heating capacity					Seasonal space heating	ng energy efficiency ηs,h			
	Prated,h	15.5	kW					201.6	%
Declared heating capacity for part load at indoor	or temperatur	a 20°C		1	Declared coefficient of	f performance or gas utilizati	on efficiency	,	
and outdoor temperature Tj	or temperatur	C 20 0				for part load at given outdoo			
T _j =-7°C	Pdh	9.3	kW		T _j =-7°C	COPd or		330.0	%
T _j =+2°C	Pdh	5.6	kW		T _j =+2°C	GUEh,bin / AEFh,bin COPd or		500.0	%
T _j =+7°C	Pdh	3.6	kW		T _j =+7°C	GUEh,bin / AEFh,bin COPd or		640.0	%
T _j =+12°C	Pdh	3.0	kW		T _j =+12°C	GUEh,bin / AEFh,bin COPd or		940.0	%
T _{biv} =bivalent temperature	Pdh	10.5	kW		T _{biv} =bivalent temperature	GUEh,bin / AEFh,bin COPd or		270.0	%
T _{OL} =operation limit	Pdh	7.9	kW		T _{OL} =operation limit	GUEh,bin / AEFh,bin COPd or		220.0	%
For air-to-water heat pumps :	Pdh	-	kW		For air-to-water heat	GUEh,bin / AEFh,bin COPd or			%
$T_{\rm j}$ =-15°C (if $T_{\rm OL}$ <-20°C)					pumps:T _j =-15°C (if T _{OL} <-20°C)	GUEh,bin / AEFh,bin	L		[
Bivalent temperature	T_{biv}	-10.0	°C		For water-to-air heat pumps:Operation limit				°c
Degradation					T _{ol} temperature			-	Ü
coefficient	C_{dh}	0.25	_				<u> </u>		ı
heat pumps**	- un								
				Ī					
Power consumpiton in modes other than 'active	e mode'				Supplementary heater		elbu		kW
Off mode	P _{OFF}	0.008	kW		back-up heating capac	city			l
Thermostat-off mode	P _{TO}	0.020	kW						
Crankcase heater mode	P _{CK}		kW		Type of energy input		P _{SB}	800.0	kW
oranicase neater mode	· CK	0.000			Standby mode		<u> </u>		
Other items					For air to air heat num	nno:			
Capacity control		variable			For air-to-air heat pum air flow-rate,outdoor m			4380	m³/h
Sound power level,					For water-/brine-to-air	heat pumps ·			
outdoor measured	L_{WA}	73.0	dB		Rated brine or water fi	iow-rate,		-	m³/h
Emissions of site-			ma m (1 3 A / 1		outdoor side heat exch	nanger	L		l
Emissions of nitrogen	NOx		mg/kWh						
oxides(if applicable)	***	-	fuel input GCV						
			<u> </u>	1					
GWP of the		675	kgCO₂eq.						
refrigerant			(100years)						
Contact details Mitsubishi	heavy indust	ries thermal	systems,LT	TD	1				
** If Cdh is not determined by measurement the					ers shall be 0,25.				
*** from 26 September 2018									
Where information relates to multi-spilt air cond	ditioners,the t	est result an	d performa	nce data be	obtained on the basis o	f the performance			
of the outdoor unit, with a combination of indoo									

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Models FDT50VH, 60VH, 71VH, 100VH, 125VH, 140VH

Model(s): FDT50VH							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	P _{rated,c}	4.4	kW	Total electric power input	P _{elec}	0.040	kW
Cooling capacity (latent)	P _{rated,c}	0.6	kW	Sound power level (per speed setting,if applicable)	L _{WA}	55.0	dB
Heating capacity	$P_{rated,h}$	5.4	kW				
Contact details	Mitsubishi h	neavy indu	ustries the	rmal systems,LTD			

Model(s): FDT60VH							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	5.5	kW	Total electric power input	P _{elec}	0.070	kW
Cooling capacity (latent)	P _{rated,c}	0.1	kW	Sound power level (per speed setting,if applicable)	L _{WA}	58.0	dB
Heating capacity	$P_{\text{rated},h}$	6.7	kW				
Contact details	Mitsubishi h	neavy indu	ustries the	rmal systems,LTD			

Model(s): FDT71VH							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	P _{rated,c}	6.1	kW	Total electric power input	P _{elec}	0.080	kW
Cooling capacity (latent)	P _{rated,c}	1.0	kW	Sound power level (per speed setting,if applicable)	L _{WA}	59.0	dB
Heating capacity	$P_{rated,h}$	8.0	kW				
Contact details	Mitsubishi h	neavy indu	ustries the	rmal systems,LTD			

Model(s): FDT100VH							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	P _{rated,c}	8.1	kW	Total electric power input	P _{elec}	0.130	kW
Cooling capacity (latent)	P _{rated,c}	1.9	kW	Sound power level (per speed setting,if applicable)	L _{WA}	62.0	dB
Heating capacity	$P_{rated,h}$	11.2	kW				
Contact details	Mitsubishi h	neavy indu	ustries the	rmal systems,LTD			

Model(s): FDT125VH								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Cooling capacity (sensible)	$P_{rated,c}$	9.1	kW	Total electric power input	P _{elec}	0.140	kW	
Cooling capacity (latent)	P _{rated,c}	3.4	kW	Sound power level (per speed setting,if applicable)	L _{WA}	63.0	dB	
Heating capacity	P _{rated,h}	14.0	kW					
Contact details	Mitsubishi h	Mitsubishi heavy industries thermal systems,LTD						

Model(s): FDT140VH								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Cooling capacity (sensible)	$P_{rated,c}$	9.8	kW	Total electric power input	P _{elec}	0.140	kW	
Cooling capacity (latent)	P _{rated,c}	4.2	kW	Sound power level (per speed setting,if applicable)	L _{WA}	63.0	dB	
Heating capacity	P _{rated,h}	16.0	kW					
Contact details	Mitsubishi h	Mitsubishi heavy industries thermal systems,LTD						

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(2) Ceiling cassette-4 way compact type (FDTC)

FDTC100VNAWPVH

Information to identify the model(s) to which the information relates to: Indoor unit model name FDTC50VH (x2 units)			o: If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.					
	11 50 100 1	107-11	<u>. </u>		7 3003011 7	werage.		
Function(indicate if present)	Voc		Average(mandatory)	Yes				
cooling heating	Yes Yes		Warmer(if designated) Colder(if designated)	No No				
	1 111		- Constant (in constant)					
Item	symbol	value unit	Item	symbol	value	class		
Design load cooling	Pdesigno	10.0 kW	Seasonal efficiency and energy efficiency cooling	cy class SEER	6.17	A++		
heating / Average	Pdesignh	8.5 kW	heating / Average	SCOP/A	4.38	A+		
heating / Warmer	Pdesignh	- kW	heating / Warmer	SCOP/W	-	-		
heating / Colder	Pdesignh	- kW	heating / Colder	SCOP/C	-	-		
Declared conscitu at outdoor tor	anaratura Tdaaiank		Pack up heating consoity at outdoor tom	noroturo Tdo	ooianh	unit		
Declared capacity at outdoor ter heating / Average (-10°C)	Pdh	8.5 kW	Back up heating capacity at outdoor tem heating / Average (-10°C)	elbu	0	ΠkW		
heating / Warmer (2°C)	Pdh	- kW	heating / Warmer (2°C)	elbu	-	kW		
heating / Colder (-22°C)	Pdh	- kW	heating / Colder (-22°C)	elbu	-	kW		
Dealers described and the second	:	- 07/40\%0	10-1		07/40\°	0		
Declared capacity for cooling, at outdoor temperature Ti	indoor temperatur	e 27 (19) C and	Declared energy efficiency ratio, at indo- outdoor temperature Tj	or temperatu	re 27(19)	C and		
Ti=35°C	Pdc	10.00 kW	Tj=35°C	EERd	3.17	٦-		
Tj=30°C	Pdc	7.37 kW	Tj=30°C	EERd	4.80]-		
Tj=25°C	Pdc	4.74 kW	Tj=25°C	EERd	7.50	-		
Tj=20°C	Pdc	3.25 kW	Tj=20°C	EERd	12.00	-		
Declared capacity for heating / A	verage season. at	indoor	Declared coefficient of performance / Av	erage seaso	n, at indo	or		
temperature 20°C and outdoor to	emperature Tj		temperature 20°C and outdoor temperat	ure Tj		_		
Tj=-7°C	Pdh	7.40 kW	Tj=-7°C	COPd	3.04			
Tj=2°C Tj=7°C	Pdh Pdh	4.50 kW 2.90 kW	Tj=2°C Tj=7°C	COPd COPd	4.30 5.50			
Tj=12°C	Pdh	2.82 kW		COPd	6.60			
Tj=bivalent temperature	Pdh	8.50 kW	Tj=bivalent temperature	COPd	2.50	-		
Tj=operating limit	Pdh	6.20 kW	Tj=operating limit	COPd	2.10	Ī-		
Dealered conscitutes beating ()	Variation and and	indees	Declared coefficient of norformones (W					
Declared capacity for heating / Vitemperature 20°C and outdoor to		Indoor	Declared coefficient of performance / W temperature 20°C and outdoor temperat		n, at muoc)I		
Tj=2°C	Pdh	- kW	Ti=2°C	COPd		٦-		
Tj=7°C	Pdh	- kW	Tj=7°C	COPd	-]-		
Tj=12°C	Pdh	- kW	Tj=12°C	COPd	-			
Tj=bivalent temperature Tj=operating limit	Pdh Pdh	- kW - kW	Tj=bivalent temperature Tj=operating limit	COPd COPd	-			
Tj-operating limit	i dii	- KVV		COLU		<u>I</u> -		
Declared capacity for heating / 0		ndoor	Declared coefficient of performance / Co	older season,	, at indoor			
temperature 20°C and outdoor to	emperature Tj		temperature 20°C and outdoor temperat	ure Tj	, at indoor	7		
temperature 20°C and outdoor to Tj=-7°C	emperature Tj Pdh	- kW	temperature 20°C and outdoor temperat	ure Tj COPd]-		
temperature 20°C and outdoor to Tj=-7°C Tj=2°C	emperature Tj Pdh Pdh	- kW - kW	temperature 20°C and outdoor temperat Tj=-7°C Tj=2°C	ure Tj COPd COPd	-]- - -		
temperature 20°C and outdoor to Tj=-7°C	emperature Tj Pdh	- kW	temperature 20°C and outdoor temperat Tj=-7°C Tj=2°C Tj=7°C Tj=12°C	ure Tj COPd]- - - -		
temperature 20°C and outdoor to Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature	emperature Tj Pdh Pdh Pdh Pdh Pdh Pdh	- kW - kW - kW - kW - kW	temperature 20°C and outdoor temperat Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature	ure Tj COPd COPd COPd COPd COPd]- - - - -		
temperature 20°C and outdoor to Tj=-7°C Tj=-2°C Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit	emperature Tj Pdh Pdh Pdh Pdh Pdh Pdh	- kW - kW - kW - kW - kW	temperature 20°C and outdoor temperat Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=12°C Tj=bivalent temperature Tj=operating limit	ure Tj COPd COPd COPd COPd COPd COPd COPd]- - - - - - -		
temperature 20°C and outdoor to Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature	emperature Tj Pdh Pdh Pdh Pdh Pdh Pdh	- kW - kW - kW - kW - kW	temperature 20°C and outdoor temperat Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature	ure Tj COPd COPd COPd COPd COPd		- - - - - - - -		
temperature 20°C and outdoor to Tj=-7°C Tj=-2°C Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit	emperature Tj Pdh Pdh Pdh Pdh Pdh Pdh	- kW - kW - kW - kW - kW	temperature 20°C and outdoor temperat Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=12°C Tj=bivalent temperature Tj=operating limit	ure Tj COPd COPd COPd COPd COPd COPd COPd		- - - - - - - - - - - -		
temperature 20°C and outdoor to Tj=-7°C Tj=2°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Bivalent temperature heating / Average	emperature Tj Pdh	- kW - kW - kW - kW - kW - kW	temperature 20°C and outdoor temperat Tj=-7°C Tj=2°C Tj=12°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Operating limit temperature heating / Average	ure Tj COPd COPd COPd COPd COPd COPd COPd COPd	- - - - - - -]- - - - - - - -		
temperature 20°C and outdoor to Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Bivalent temperature heating / Average heating / Warmer	emperature Tj Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Thiv Tbiv	- kW - kW - kW - kW - kW - kW - kW	temperature 20°C and outdoor temperat Tj=-7°C Tj=2°C Tj=12°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Operating limit temperature heating / Average heating / Warmer	ure Tj COPd COPd COPd COPd COPd COPd COPd COPd	-	- - - - - - - - - - - -		
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FDTC100VSAWPVH

Information to identify the model(s) to which the informatio	n relates to:	If function includes heating: Indicate the	ne heating seas	son tne	
Indoor unit model name	FDTC50VH (x2 u	ınits)	information relates to. Indicated values	s should relate	to one	
Outdoor unit model name	FDC100VSA-W		heating season at a time. Include at le	ast the heating	season 'A	Average'.
Function(indicate if present)			Average(mandatory)	Yes		
cooling	Yes		Warmer(if designated)	No		
heating	Yes		Colder(if designated)	No		
Item	symbol value	unit	Item	symbol	value	class
Design load			Seasonal efficiency and energy efficie	ncy class		
cooling	Pdesignc 10.0	kW	cooling	SEER	6.17	A++
heating / Average	Pdesignh 8.5	kW	heating / Average	SCOP/A	4.38	A+
heating / Warmer	Pdesignh -	kW	heating / Warmer	SCOP/W	-	-
heating / Colder	Pdesignh -	kW	heating / Colder	SCOP/C	-	-
<u> </u>			y			unit
Declared capacity at outdoor tem	perature Tdesignh		Back up heating capacity at outdoor to	emperature Tde	esianh	
heating / Average (-10°C)	Pdh 8.5	kW	heating / Average (-10°C)	elbu	0	kW
heating / Warmer (2°C)	Pdh -	kW	heating / Warmer (2°C)	elbu		kW
heating / Colder (-22°C)	Pdh -	kW	heating / Colder (-22°C)	elbu		kW
ricating / Golder (-22 G)	1 011	IKVV	ricating / Golder (-22 G)	Cibu		IKVV
Declared capacity for cooling, at	indoor tomporature 27/10	0\°C and	Declared energy efficiency ratio, at inc	loor tomporatu	ro 27/10\°	Cand
	indoor temperature 27 (18) C and		door temperatu	16 27 (19)	C and
outdoor temperature Tj	Dda 40.00	LAM	outdoor temperature Tj	CCD4	2.47	7
Tj=35°C	Pdc 10.00		Tj=35°C	EERd	3.17	- -
Tj=30°C	Pdc 7.37	_	Tj=30°C	EERd	4.80	 -
Tj=25°C	Pdc 4.74		Tj=25°C	EERd	7.50	
Tj=20°C	Pdc 3.25	kW	Tj=20°C	EERd	12.00	-
Declared capacity for heating / A			Declared coefficient of performance / /		n, at indoo	or
temperature 20°C and outdoor te	mperature Tj		temperature 20°C and outdoor temper	ature Tj		
Tj=-7°C	Pdh 7.40	kW	Tj=-7°C	CÓPd	3.04	7-
Tj=2°C	Pdh 4.50		Tj=2°C	COPd	4.30	7-
Ti=7°C	Pdh 2.90		Tj=7°C	COPd	5.50	1 ₋
Ti=12°C	Pdh 2.82		Tj=12°C	COPd	6.60	- _
Tj=bivalent temperature	Pdh 8.50	_	Tj=bivalent temperature	COPd	2.50	+
Tj=operating limit	Pdh 6.20		11 '	COPd	2.10	
rj-operating limit	Pull 6.20	IKVV	Tj=operating limit	COPu	2.10	<u> </u> -
D	/			14/	4 !1	_
Declared capacity for heating / W			Declared coefficient of performance /		n, at muod)I
temperature 20°C and outdoor te			temperature 20°C and outdoor temper			7
Tj=2°C	Pdh -	kW	Tj=2°C	COPd	-	 -
Tj=7°C	Pdh -	kW	Tj=7°C	COPd	-	
Tj=12°C	Pdh -	kW	Tj=12°C	COPd	-	
Tj=bivalent temperature	Pdh -	kW	Tj=bivalent temperature	COPd	-	-
Tj=operating limit	Pdh -	kW	Tj=operating limit	COPd	-	7-
Declared capacity for heating / C	older season, at indoor		Declared coefficient of performance /	Colder season,	, at indoor	
					, at indoor	
temperature 20°C and outdoor te		□kW	temperature 20°C and outdoor temper	ature Tj	, at indoor	7-
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FDTC125VNAWPVH

Model(s): FDC125VN	NA-W / FDTC60VH	(x2 units)					
Outdoor side heat exchanger of	f air conditioner :	air					
Indoor side heat exchanger of a	air conditioner :	air					
Type: vapour compression							
if applicable : electric mo	otor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	-			Seasonal spac	e cooling energy		
	Prated,c	12.5	kW	efficiency ηs,c		260.6	%
Declared cooling capacity for pa	art load at given out	door temp	eratures	Declared energ	gy efficiency ratio or gas utilization	on efficiency /	
Tj and indoor 27°C/19°C(dry/we	t bulb)			auxiliary energ	y factor for part load at given ou	tdoor temperat	ures Tj
Tj=+35°C	Pdc	12.5	kW	Tj=+35°C	EERd or		1
					GUEc,bin / AEFc,bin	255.0	%
Tj=+30°C	Pdc	9.2	kW	Tj=+30°C	EERd or		1
		•	_	,	GUEc,bin / AEFc,bin	450.0	%
Tj=+25°C	Pdc	5.9	kW	Tj=+25°C	EERd or	700.0],,
		-	-		GUEc,bin / AEFc,bin	739.0	%
Tj=+20°C	Pdc	3.5	kW	Tj=+20°C	EERd or	4700 0] _{0/}
			-		GUEc,bin / AEFc,bin	1782.0	%
Degradation					.,.		-
coefficient for	Cdc	0.25	_				
air conditioners**							
			-				
Power consumpiton in other that Off mode Thermostat-off mode	an 'active mode' ${\sf P}_{\sf OFF} \\ {\sf P}_{\sf TO}$	0.010	kW kW	Crankcase hea		0.005	kW kW
Other items			-				-
Other items				For air-to-air ai	r conditioner:		1
Capacity control		variable			tdoor measured	4500	m³/h
Sound power level,		74.0	d _D				
outdoor	L_{WA}	71.0	dB				
If engine driven:			mg/kWh				
Emissions of nitrogen	NOx ***	-	fuel input				
oxides			GCV				
			-				
GWP of the		675	kgCO ₂ eq.				
refrigerant			(100years)				
	Mitsubishi heavy ind						
** If Cdc is not determined by m	neasurement then th	e default (aegradation	coefficient air co	naitioners shall be 0,25.		
*** from 26 September 2018							
Where information relates to m						ne performance	е
of the outdoor unit, with a comb	ination of indoor uni	t(s) recom	nmended by	the manufacture	r or importer.		

Information to identify the model(s) to which the information relates : FDC125VNA-W / FDTC60VH (x2 units)								
Outdoor side heat exchanger of heat pump):	air						
Indoor side heat exchanger of heat pump :		air						
Indication if the heater is equipped with a si				N	lo			
if applicable : electric motor		-						
Parameters shall be declared for the avera	ge heating s	eason , par	ameters for	r the warme	er and colder heating s	seasons are optional.		
Item	Symbol		Unit		Item	Symbol	Value	Unit
Rated heating capacity	Oyllibol	value	OTIL			ting energy efficiency ηs,h	T	OTIL
Trailed fleating dapacity	Prated,h	14.0	kW		Coasonar space near	ang energy emolency 1/0,11	171.3	%
Declared heating capacity for part load at ir	adoor tompo	ratura 20°C			Doolared coefficient of	of performance or gas utilization e	fficionay /	
and outdoor temperature Tj	idoor terripe	rature 20 O				r for part load at given outdoor ter	-	т
and outdoor temperature 1)					auxiliary energy lacto	i ioi partioad at giveri odidoor ter	riperatures	'J
T _j =-7°C	Pdh	8.7	kW		T _i =-7°C	COPd or		
1,7 0	i dii	<u> </u>	KVV		1,7 0		270.0	%
T-+2°C	Pdh	5.3	kW		T-+2°C	GUEh,bin / AEFh,bin		
T _j =+2°C	Full	0.0	KVV		T _j =+2°C	COPd or	420.0	%
T-17°C	Pdh	3.4	kW		T = 17°C	GUEh,bin / AEFh,bin		
T _j =+7°C	Pull	0.4	KVV		T _j =+7°C	COPd or	580.0	%
T . 1000	Б.	3.0			T . 1000	GUEh,bin / AEFh,bin	_	
T _j =+12°C	Pdh	3.0	kW		T _j =+12°C	COPd or	805.0	%
	Б.	0.0				GUEh,bin / AEFh,bin		
T _{biv} =bivalent temperature	Pdh	9.8	kW		T _{biv} =bivalent temperature	COPd or	230.0	%
			l			GUEh,bin / AEFh,bin		
T _{OL} =operation limit	Pdh	7.4	kW		T _{OL} =operation limit	COPd or	200.0	%
						GUEh,bin / AEFh,bin	_	
For air-to-water heat pumps :	Pdh	-	kW		For air-to-water heat		.	%
T _j =-15°C					pumps:T _j =-15°C	GUEh,bin / AEFh,bin		
(if T _{OL} <-20°C)					(if T _{OL} <-20°C)			
								ı
Bivalent temperature	T _{biv}	-10.0	°C		For water-to-air heat			
					pumps:Operation limi	it	- 1	°C
Degradation					T _{ol} temperature			
coefficient	C_{dh}	0.25	-					
heat pumps**								
Power consumpiton in modes other than 'a	ctive mode'				Supplementary heate	er elbu		kW
					back-up heating capa			KVV
Off mode	P_{OFF}	0.010	kW					_
Thermostat-off mode	P _{TO}	0.020	kW		Type of energy input	Р	0.010	kW
Crankcase heater mode	P _{CK}	0.005	kW		Standby mode	P_{SB}	0.010	KVV
		,						•
Other items								
					For air-to-air heat pur	mps:		2.0
Capacity control		variable			air flow-rate,outdoor r	·	4380	m³/h
Sound power level,					For water-/brine-to-ai	r heat pumps :		
outdoor measured	L _{WA}	71.0	dB		Rated brine or water		.	m³/h
outdoor modoured					outdoor side heat exc			
Emissions of nitrogen			mg/kWh		outdoor side fleat ext	Shariger		l.
	NOx							
oxides(if applicable)	***		fuel input					
			GCV					
GWP of the			kgCO₂eq.					
		675	(100years)					
refrigerant			, ,					
0	Objective to the	-4-1 "	-11	LTD	ļ			
Contact details Mitsubish ** If Cdh is not determined by measuremer	i heavy indu				anditioners shall be a	25		
	it aien aie a	ciaun ucyla	wation total	morent all C	onationers shall be U,	۵٠.		
*** from 26 September 2018								
Where information relates to multi-spilt air of						e basis of the performance		
of the outdoor unit, with a combination of in	door unit(s)	recommend	ded by the r	manufactur	er or importer.			

FDTC125VSAWPVH

Model(s): FDC125VSA-V	W / FDTC60VH (x2 units)					
Outdoor side heat exchanger of air	conditioner : air					
Indoor side heat exchanger of air of	onditioner : air					
Type: vapour compression						
if applicable : electric motor						
Item	Symbol Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c 12.5	kW	Seasonal space efficiency ηs,c	e cooling energy	260.6	%
Declared cooling capacity for part long and indoor 27°C/19°C(dry/wet but tj=+35°C Tj=+30°C Tj=+25°C Tj=+20°C	= '	leratures kw kw kw kw	11	y efficiency ratio or gas utilizative factor for part load at given on EERd or GUEc,bin / AEFc,bin	-	wres Tj % % %
Degradation coefficient for air conditioners**	Cdc 0.25	-				
Power consumpiton in other than 'a Off mode Thermostat-off mode	P _{OFF} 0.010 0.000	kW kW	Crankcase hea Standby mode	ter mode P _{CK} P _{SB}	0.005 0.010	kW kW
Other items						,
Capacity control	variable]	For air-to-air air air flow-rate,out	conditioner:	4500	m³/h
Sound power level, outdoor	L _{WA} 71.0	dB				
If engine driven: Emissions of nitrogen oxides	NOx ***	mg/kWh fuel input GCV				
GWP of the refrigerant	675	kgCO ₂ eq. (100years)				
Contact details Mits ** If Cdc is not determined by meas *** from 26 September 2018 Where information relates to multi-softhe outdoor unit, with a combinat	spilt air conditioners,the te	degradation	o coefficient air con	ta be obtained on the basis of t	the performance	•

Information to identify the model(s) to which	th the informa	ation relates :		FDC125VSA-W / FD	TC60VH (x2 units)		
Outdoor side heat exchanger of heat pum		air					
Indoor side heat exchanger of heat pump		air					
Indication if the heater is equipped with a s	supplementar		1	No			
if applicable : electric motor							
Parameters shall be declared for the avera	age heating s	eason , parameters	for the warm	er and colder heating	seasons are optional.		
Item	Symbol	Value Unit		Item	Symbol	Value	Unit
Rated heating capacity				Seasonal space heat	ing energy efficiency ηs,h		
	Prated,h	14.0 kW				171.3	%
			4				ļ
Declared heating capacity for part load at	indoor tempe	rature 20°C		Declared coefficient of	of performance or gas utilization	efficiency /	
and outdoor temperature Tj				auxiliary energy facto	or for part load at given outdoor to	emperatures	Tj
T _j =-7°C	Pdh	8.7 kW		T _i =-7°C	COPd or		1
·				,	GUEh,bin / AEFh,bin	270.0	%
T _j =+2°C	Pdh	5.3 kW		T _j =+2°C	COPd or	420.0	%
					GUEh,bin / AEFh,bin	420.0	
T _j =+7°C	Pdh	3.4 kW		T _j =+7°C	COPd or	580.0	%
					GUEh,bin / AEFh,bin		ľ
T _j =+12°C	Pdh	3.0 kW		T _j =+12°C	COPd or	805.0	%
					GUEh,bin / AEFh,bin	-	4
T _{biv} =bivalent temperature	Pdh	9.8 kW		T _{biv} =bivalent	COPd or	230.0	%
				temperature	GUEh,bin / AEFh,bin	-	-
T _{OL} =operation limit	Pdh	7.4 kW		T _{OL} =operation limit	COPd or	200.0	%
For the state of the	D.º			F	GUEh,bin / AEFh,bin	-	1
For air-to-water heat pumps :	Pdh	- kW		For air-to-water heat	COPd or GUEh,bin / AEFh,bin	-	%
T_j =-15°C (if T_{OL} <-20°C)				pumps:T _j =-15°C (if T _{OL} <-20°C)	GOEII,DIII / AEFII,DIII		J
(II 1 _{OL} <-20 C)				(II 1 _{OL} <-20 C)			
Bivalent temperature	T _{biv}	-10.0 °C		For water-to-air heat			1
	- DIV	L1 -		pumps:Operation limi	it	-	°C
Degradation				T _{ol} temperature			
coefficient	C_{dh}	0.25					-
heat pumps**							
							1
Power consumpiton in modes other than 'a	active mode'			Supplementary heate	er elbu	-	kW
	В			back-up heating capa	acity]
Off mode Thermostat-off mode	P _{OFF}	0.010 kW 0.020 kW					1
Crankcase heater mode	P _{to} P _{ck}	0.020 kW		Type of energy input	P_{SB}	0.010	kW
oranioase neater mode	· CK	0.000 KVV		Standby mode			J
Other items							
				For air-to-air heat pur	mps:	4380	m³/h
Capacity control		variable		air flow-rate,outdoor i	measured]
							1
Sound power level,	L_{WA}	71.0 dB		For water-/brine-to-ai		1	m³/h
outdoor measured				Rated brine or water		1	141-711
Emissions of nitrogen		pm or /1./ A / I.	,	outdoor side heat exc	cnanger	L	J
Emissions of nitrogen oxides(if applicable)	NOx	mg/kWh fuel inpu					
oniues(ii applicable)	***	GCV	11				
GWP of the		675 kgCO ₂ e					
refrigerant		(100year	rs)				
<u> </u>							
		stries thermal system		pp	05		
** If Cdh is not determined by measureme	nt then the de	etault degradation o	oefficient air o	conditioners shall be 0,	25.		
*** from 26 September 2018							
Where information relates to multi-spilt air					e basis of the performance		
of the outdoor unit, with a combination of in	ndoor unit(s)	recommended by th	e manufactu	rer or importer.			

PJF000Z517⚠

FDTC140VNAWTVH

Model(s): FDC140VNA-W	/ / FDTC50VH	(x3 units)					
Outdoor side heat exchanger of air							
Indoor side heat exchanger of air co		air air					
Type: vapour compression		all					
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	Symbol	Value	Offic		e cooling energy	value	I
Traica cooming capacity	Prated,c	13.6	kW	efficiency ηs,c	c cooming chargy	271.4	%
				emolericy rps,c			
Declared cooling capacity for part lo	ad at diven ou	ıtdoor temi	neratures	Declared energ	gy efficiency ratio or gas utilizati	ion efficiency /	
Tj and indoor 27°C/19°C(dry/wet bul	-	itador terri	peratures	_	y factor for part load at given ou	-	
Try and macor 27 or 10 o(ary/wor bar	,			duxillary errorgy	y lactor for pair load at given of	ataoor tempere	aturee 1
Tj=+35°C	Pdc	13.6	kW	Tj=+35°C	EERd or		1
			1	1,7 100 0	GUEc,bin / AEFc,bin	286.0	%
Tj=+30°C	Pdc	10.0	kW	Tj=+30°C	EERd or		1
			1	1,1-1000	GUEc,bin / AEFc,bin	442.0	%
Tj=+25°C	Pdc	6.4	kW	Tj=+25°C	EERd or		1
,			1	11,-1250	GUEc,bin / AEFc,bin	773.0	%
Tj=+20°C	Pdc	3.5	kW	Tj=+20°C	EERd or		1
			J	17-+20 0		1860.0	%
Dogradation			1		GUEc,bin / AEFc,bin		J
Degradation coefficient for	Cdc	0.25					
	Cuc		-				
air conditioners**			1				
Davier consumeritor in other than In	ativa mandal						
Power consumpiton in other than 'a	ctive mode						
Off mode	P_{OFF}	0.008	lkW	Crankcase hea	iter mode P _{CK}	0.005	lkW
Thermostat-off mode	P _{TO}	0.000	kW	Standby mode	S.C.	0.008	kW
The model on mode	. 10	0.000],,,,	Ctanaby mode	. 20	0.000]
Other items							
Other items				Fan ain ta ain air			1
Capacity control		variable	1	For air-to-air air		4500	m³/h
oupdoity control		variable	·	air ilow-rate,ou	tdoor measured		J
Caused manuar laurel			1				
Sound power level,	L_{WA}	72.0	dB				
outdoor			<u> </u>				
			1				
If engine driven:	NOx	_	mg/kWh				
Emissions of nitrogen	***		fuel input				
oxides			GCV				
01415 611			1				
GWP of the		675	kgCO ₂ eq. (100years)				
refrigerant](,,				
			ļ				
	bishi heavy inc				ponditioners shall be 0.25		
** If Cdc is not determined by meas	urement then t	uie default	uegradatio	n coemcient air c	conditioners shall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-s	spilt air condition	oners,the to	est result ar	nd performance of	data be obtained on the basis o	f the performa	ince
of the outdoor unit, with a combinati	ion of indoor u	nit(s) reco	mmended b	y the manufactur	rer or importer.		
1							

Information to identify the model(s) to which	n the informa	ation relates	::		FDC140VNA-W / FD	TC50VH (x3 units)		
Outdoor side heat exchanger of heat pump):	air						
Indoor side heat exchanger of heat pump :		air						
Indication if the heater is equipped with a s				N	lo			
if applicable : electric motor								
Parameters shall be declared for the avera	ge heating s	eason , par	ameters fo	r the warm	er and colder heating s	seasons are optional.		
Item	Symbol		Unit		Item	Symbol	Value	Unit
Rated heating capacity	Oyiliboi	value	OTIL			ting energy efficiency ηs,h	Value	OTIL
Trace freating expansy	Prated,h	15.5	kW		ocasonal space near	ang energy emolericy rps,n	196.0	%
Declared heating capacity for part load at it	adoor tompo	ratura 20°C			Doclared coefficient of	of performance or gas utilization e	fficionay /	
and outdoor temperature Tj	idoor terripe	rature 20 O				r for part load at given outdoor ter	•	т
and outdoor temperature 1]					auxiliary energy lacto	i ioi pait ioad at giveri odidoor ter	nperatures	'J
T _j =-7°C	Pdh	9.3	kW		T _i =-7°C	COPd or		
1,1-7-0	i dii		l		1,- 7 0	GUEh,bin / AEFh,bin	317.0	%
T=+2°C	Pdh	5.6	kW		T=+2°C	COPd or		
T _j =+2°C	ruii	0.0	KVV		T _j =+2°C		474.0	%
T-17°0	Dalle	3.6	1.347		T - 17%	GUEh,bin / AEFh,bin		
T _j =+7°C	Pdh	3.0	kW		T _j =+7°C	COPd or	660.0	%
		3.0	l			GUEh,bin / AEFh,bin		
T _j =+12°C	Pdh	3.0	kW		T _j =+12°C	COPd or	963.0	%
			İ			GUEh,bin / AEFh,bin		
T _{biv} =bivalent temperature	Pdh	10.5	kW		T _{biv} =bivalent	COPd or	240.0	%
			i		temperature	GUEh,bin / AEFh,bin		
T _{OL} =operation limit	Pdh	7.8	kW		T _{OL} =operation limit	COPd or	200.0	%
			ı			GUEh,bin / AEFh,bin		
For air-to-water heat pumps :	Pdh	-	kW		For air-to-water heat	COPd or	١.	%
T _j =-15°C					pumps:T _j =-15°C	GUEh,bin / AEFh,bin		,,,
(if T _{OL} <-20°C)					(if T _{OL} <-20°C)			
Bivalent temperature	T_biv	-10.0	°C		For water-to-air heat			
			•		pumps:Operation limi	it	-	°C
Degradation					T _{ol} temperature			
coefficient	C_{dh}	0.25	-					
heat pumps**	uii							
			l					
Power consumpiton in modes other than 'a	ctive mode'				Supplementary heate	ar.		
ower consumption in modes other than a	ictive mode					eibu	-	kW
Off mode	P _{OFF}	0.008	kW		back-up heating capa	icity		l
Thermostat-off mode	P _{TO}	0.020	kW		T			
Crankcase heater mode	P _{CK}		kW		Type of energy input	P_{SB}	0.008	kW
Grankease fleater floue	· CK	0.003	KVV		Standby mode			ļ.
O4b '4								
Other items								
		variable			For air-to-air heat pur		4380	m³/h
Capacity control		variable			air flow-rate,outdoor r	neasured		ļ.
L								l
Sound power level,	L_{WA}	73.0	dB		For water-/brine-to-air			m³/h
outdoor measured					Rated brine or water		-	111711
			ı		outdoor side heat exc	changer		ļ
Emissions of nitrogen	NOx		mg/kWh					
oxides(if applicable)	***	-	fuel input					
			GCV					
			ı					
GWP of the		675	kgCO₂eq.					
refrigerant			(100years)					
Contact details Mitsubish	i heavy indu	stries therm	al systems	,LTD				
** If Cdh is not determined by measurement	nt then the d	efault degra	dation coef	fficient air c	onditioners shall be 0,	25.	-	-
*** from 26 September 2018								
Where information relates to multi-spilt air	conditioners	the test resi	ult and perf	ormance d	ata be obtained on the	e basis of the performance		
of the outdoor unit, with a combination of ir			-					
	(3)		,		F - 1011			

PJF000Z517⚠

FDTC140VSAWTVH

	A-W / FDTC50VH (x3 units)					
Outdoor side heat exchanger of	uii uii					
Indoor side heat exchanger of a	ir conditioner : air					
Type: vapour compression						
if applicable : electric mo	tor					
Item	Symbol Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	Dratad a 42.0	kW	Seasonal space	e cooling energy	274.4	0/
	Prated,c 13.6	KVV	efficiency ηs,c		271.4	%
Declared cooling capacity for pa	-	eratures		y efficiency ratio or gas utilization	-	T:
Tj and indoor 27°C/19°C(dry/wet	Duib)		auxiliary energy	factor for part load at given out	door temperat	ures IJ
Tj=+35°C	Pdc 13.6	lkW	Ti-+25°C	EERd or		1
,		_	Tj=+35°C	GUEc,bin / AEFc,bin	286.0	%
Tj=+30°C	Pdc 10.0	kW	Tj=+30°C	EERd or		-
•		_	11,-130 C	GUEc,bin / AEFc,bin	442.0	%
Tj=+25°C	Pdc 6.4	kW	Tj=+25°C	EERd or		1
•		_	1,7 120 0	GUEc,bin / AEFc,bin	773.0	%
Tj=+20°C	Pdc 3.5	kW	Tj=+20°C	EERd or	10000	1,
		-	,	GUEc,bin / AEFc,bin	1860.0	%
Degradation]				•
coefficient for	Cdc 0.25	_				
air conditioners**						
		_				
Power consumpiton in other tha	n 'active mode' P _{OFF} 0.008] _{kW}	Crankcase heat	ter mode P _{CK}	0.005	lkw
Thermostat-off mode	P _{TO} 0.000	kW	Standby mode	P _{SB}	0.008	kW
The mostar on mode	. 10],,,,	Otanaby mode	. 2В	0.000],,,,
Other items						
			For air-to-air air	conditioner:]
Capacity control	variable]	air flow-rate,out		4500	m³/h
		,				
Sound power level,	L _{WA} 72.0	dB				
outdoor		J				
]				
If engine driven:	NOx	mg/kWh				
Emissions of nitrogen	***	fuel input				
oxides]GCV				
GWP of the		kgCO₂eq.				
refrigerant	675	(100years)				
.ogora		-				
Contact details	Mitsubishi heavy industries the	ermal systen	ns,LTD			
** If Cdc is not determined by m	easurement then the default	degradation	coefficient air con	nditioners shall be 0,25.		
*** from 26 September 2018						
Where information relates to mu	ılti-spilt air conditioners,the te	st result and	performance dat	a be obtained on the basis of th	ne performance	•
of the outdoor unit, with a combi	nation of indoor unit(s) recom	mended by	the manufacturer	or importer.		

Information to identify the model(s	s) to which the informa	ation relates :		FDC140VSA-W / FD	TC50VH (x3 units)		
Outdoor side heat exchanger of h		air					
Indoor side heat exchanger of he		air					
Indication if the heater is equipped				No			
if applicable : electric mo		,		-			
Parameters shall be declared for		eason , parame	ters for the war	mer and colder heating	seasons are optional.		
Item	Symbol	Value Unit		Item	Symbol	Value	Unit
Rated heating capacity	0,501	T T T T T T T T T T T T T T T T T T T			ting energy efficiency ηs,h	70.00	1
rates resulting capacity	Prated,h	15.5	κW	Codosmai opaso noa	ang chargy amaionay you	196.0	%
Declared heating capacity for par	t load at indoor tempe	rature 20°C		Declared coefficient	of performance or gas utilization	n efficiency /	
and outdoor temperature Tj					or for part load at given outdoor		Tj
T _j =-7°C	Pdh	9.3 kW		T _j =-7°C	COPd or GUEh,bin / AEFh,bin	317.0	%
T _j =+2°C	Pdh	5.6 kW		T _j =+2°C	COPd or GUEh,bin / AEFh,bin	474.0	%
T _j =+7°C	Pdh	3.6 kW		T _j =+7°C	COPd or GUEh,bin / AEFh,bin	660.0	%
T _j =+12°C	Pdh	3.0 kW		T _j =+12°C	COPd or GUEh,bin / AEFh,bin	963.0	%
T _{biv} =bivalent temperature	Pdh	10.5 kW		T _{biv} =bivalent temperature	COPd or	240.0	%
T _{OL} =operation limit	Pdh	7.8 kW		T _{OL} =operation limit	GUEh,bin / AEFh,bin COPd or	200.0	%
For air-to-water heat pumps :	Pdh	- kW		For air-to-water heat pumps:T _i =-15°C	GUEh,bin / AEFh,bin COPd or GUEh,bin / AEFh,bin	-	%
T_j =-15°C (if T_{OL} <-20°C)				(if T _{OL} <-20°C)	GOEH, DIII / AEFH, DIII		1
Bivalent temperature	T_biv	-10.0 °C		For water-to-air heat pumps:Operation lim		_	°c
Degradation				T _{ol} temperature			
coefficient	C_{dh}	0.25					_
heat pumps**							
Power consumpiton in modes oth	er than 'active mode'			Supplementary heat	er		1
				back-up heating cap	eibu	-	kW
Off mode	P _{OFF}	0.008 kW					1
Thermostat-off mode	P _{TO}	0.020 kW		Type of energy input	P _{SB}	0.008	kW
Crankcase heater mode	P _{CK}	0.005 kW		Standby mode]
Other items				For air-to-air heat pu	mps:	4380	m³/h
Capacity control		variable		air flow-rate,outdoor	measured	4300]''' <i>''</i> ''
Sound power level,	L_{WA}	73.0 dB		For water-/brine-to-a	ir heat pumps :		
outdoor measured	-wa			Rated brine or water outdoor side heat ex		-	m³/h
Emissions of nitrogen	NOx	mg/	kWh				
oxides(if applicable)	NOX ***	- fuel GC\	input /				
GWP of the		kac	O ₂ eq.				
refrigerant			years)				
reingerant		<u> </u>					
Contact details	Mitsubishi heavy indu	stries thermal ex	stems I TD	Ļ			
** If Cdh is not determined by me				r conditioners shall be 0	,25.		
*** from 26 September 2018							
Where information relates to mult	i-spilt air conditioners.	the test result a	nd performance	e data be obtained on the	e basis of the performance		
of the outdoor unit, with a combin							
	(-)			•			

PJF000Z517 ⚠

Models FDTC50VH, 60VH

Model(s): FDTC50VH							
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Unit
Cooling capacity (sensible)	$P_{\text{rated,c}}$	3.8	kW	Total electric power input	P _{elec}	0.050	kW
Cooling capacity (latent)	P _{rated,c}	1.2	kW	Sound power level (per speed setting,if applicable)	L _{WA}	59.0	dB
Heating capacity	$P_{\text{rated,h}}$	5.4	kW				
Contact details	Mitsubishi	heavy ind	ustries the	rmal systems,LTD			

Model(s): FDTC60VH							
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Unit
Cooling capacity (sensible)	$P_{rated,c}$	3.9	kW	Total electric power input	P _{elec}	0.060	kW
Cooling capacity (latent)	P _{rated,c}	1.7	kW	Sound power level (per speed setting,if applicable)	L _{WA}	60.0	dB
Heating capacity	$P_{rated,h}$	6.7	kW				
Contact details	Mitsubishi	heavy ind	ustries the	rmal systems,LTD			

(3) Duct connected-High static pressure type (FDU) FDU100VNAWVH

Information to identify the mode	el(s) to which the inf	ormation i	relates to:	If function includes heating: Indicate the	e heating seas	son the	
Indoor unit model name	FDU100V	Н		information relates to. Indicated values	should relate	to one	
Outdoor unit model name	FDC100V	NA-W		heating season at a time. Include at lea	ast the heating	season 'A	werage'.
Function(indicate if present)				Average(mandatory)	Yes		
cooling	Yes			Warmer(if designated)	No		
heating	Yes			Colder(if designated)	No		
Item	symbol	value	unit	Item	symbol	value	class
Design load	Symbol	value	unit	Seasonal efficiency and energy efficier		value	ciass
cooling	Pdesigno	10.0	kW	cooling	SEER	6.11	A++
heating / Average	Pdesignh	8.5	kW	heating / Average	SCOP/A	4.19	A+
heating / Warmer	Pdesignh	-	kW	heating / Warmer	SCOP/W	-	-
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C	-	-
y				Jan y			unit
Declared capacity at outdoor te	mperature Tdesignl	h		Back up heating capacity at outdoor te	mperature Tde	esignh	
heating / Average (-10°C)	Pdh	8.5	kW	heating / Average (-10°C)	elbu	0	kW
heating / Warmer (2°C)	Pdh	-	kW	heating / Warmer (2°C)	elbu	-	kW
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	-	kW
-							
Declared capacity for cooling, a	t indoor temperatur	e 27(19)°	C and	Declared energy efficiency ratio, at inde	oor temperatu	re 27(19)°C	and
outdoor temperature Tj				outdoor temperature Tj			
Tj=35℃	Pdc	10.00	kW	Tj=35°C	EERd	3.35]-
Tj=30°C	Pdc	7.37	kW	Tj=30°C	EERd	5.00]-
Tj=25°C	Pdc	4.74	kW	Tj=25°C	EERd	8.05]-
Tj=20°C	Pdc	3.10	kW	Tj=20°C	EERd	9.50]-
Declared capacity for heating /		indoor		Declared coefficient of performance / A		n, at indoo	r
temperature 20°C and outdoor			.	temperature 20°C and outdoor tempera			-
Tj=-7°C	Pdh	7.40	kW	Tj=-7°C	COPd	3.14	<u> </u> -
Tj=2°C	Pdh	4.50	kW	Tj=2°C	COPd	4.02	<u> </u> -
Tj=7°C	Pdh	2.90	kW	Tj=7°C	COPd	5.24	<u> </u> -
Tj=12°C	Pdh	2.90	kW	Tj=12°C	COPd	6.27	<u> </u> -
Tj=bivalent temperature	Pdh	8.50	kW	Tj=bivalent temperature	COPd	2.50	<u> </u> -
Tj=operating limit	Pdh	6.30	kW	Tj=operating limit	COPd	2.10	<u> </u> -
					.,		
Declared capacity for heating /		indoor		Declared coefficient of performance / V		n, at indoo	r
temperature 20°C and outdoor			T	temperature 20°C and outdoor tempera			1
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	-l-
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	- 1⁻
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	-l-
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd		
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	<u> -</u>
Declared capacity for heating /	Coldor access at in	adoor		Declared coefficient of performance / (Coldor access	at indoor	
Declared capacity for heating /		10001		Declared coefficient of performance / C		, at muoor	
temperature 20°C and outdoor			TLAAZ	temperature 20°C and outdoor tempera			7
Tj=-7°C	Pdh	-	kW	Tj=-7°C	COPd	-	- 1
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	-d-
Tj=7°C Tj=12°C	Pdh Pdh	-	kW kW	Tj=7°C Tj=12°C	COPd COPd	-	-{⁻
Tj=bivalent temperature	Pdh		kW	Tj=12 C Tj=bivalent temperature	COPd		-1⁻
Tj=blvalent temperature Tj=operating limit	Pdh		kW	Tj=operating limit	COPd		-1⁻
Tj=-0perating infilt	Pdh		kW	Ti=-15°C	COPd		-1⁻
1]15 C	Pull		KVV	[]=-15 C	COPu		<u> -</u>
Bivalent temperature				Operating limit temperature			
heating / Average	Tbiv	-10	°c	heating / Average	Tol	-20	l℃
heating / Warmer	Tbiv	-10	°C	heating / Warmer	Tol	-20	l _° C
heating / Colder	Tbiv	-	°C	heating / Valiner	Tol	<u> </u>	.c
ricating / Colder	IDIV		<u> </u>	ricating / colder	101		10
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pcycc	-	kW	for cooling	EERcyc	-	1-
for heating	Pcych	-	kW	for heating	COPcyc	-	1_
l l	,						
Degradation coefficient				Degradation coefficient			
cooling	Cdc	0.25	ī- l	heating	Cdh	0.25	1-
Electric power input in power m	odes other than 'ac	tive mode	'	Annual electricity consumption			
off mode	Poff	8	W	cooling	Qce	574	kWh/a
standby mode	Psb	8	w	heating / Average	Qhe	2843	kWh/a
thermostat-off mode	Pto(cooling)	65	w	heating / Warmer	Qhe	-	kWh/a
	Pto(heating)	75	w	heating / colder	Qhe	-	kWh/a
crankcase heater mode	Pck	5	W				
	,						
Capacity control(indicate one of	f three options)			Other items			_
				Sound power level(indoor)	Lwa	65	dB(A)
				Sound power level(outdoor)	Lwa	69	dB(A)
fixed	No			Global warming potential	GWP	675	kgCO₂eq.
staged	No			Rated air flow(indoor)	-	2,160	m ³ /h
variable	Yes			Rated air flow(outdoor)	_	4,500	m ³ /h
	,					.,,,,,,,	
Contact details for obtaining	Name and addres	s of the m	anufacture	er or of its authorised representative.			
more information				ioning Europe, Ltd.			
				e, Middlesex, UB11 1ET,			
	United Kingdom		-				
	=						

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FDU100VSAWVH

Information to identify the mode Indoor unit model name Outdoor unit model name	l(s) to which the inf FDU100V FDC100V	Ή	relates to:	If function includes heating: Indicate t information relates to. Indicated value heating season at a time. Include at le	s should relate	to one	verage'.
Function(indicate if present)				Average(mandatory)	Yes		
cooling	Yes			Warmer(if designated)	No		
heating	Yes			Colder(if designated)	No		
Item Design load	symbol	value	unit	Item Seasonal efficiency and energy efficiency	symbol	value	class
cooling	Pdesigno	10.0	kW	cooling	SEER	6.11	A++
heating / Average	Pdesignh	8.5	kW	heating / Average	SCOP/A	4.19	A+
heating / Warmer	Pdesignh	-	kW	heating / Warmer	SCOP/W	-	-
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C	-	-
							unit
Declared capacity at outdoor te			7	Back up heating capacity at outdoor to			7
heating / Average (-10°C)	Pdh	8.5	kW	heating / Average (-10°C)	elbu	0	kW
heating / Warmer (2°C) heating / Colder (-22°C)	Pdh Pdh	-	kW kW	heating / Warmer (2°C) heating / Colder (-22°C)	elbu elbu	-	kW kW
rieating / Colder (-22 C)	Pull	-	KVV	neating / Colder (-22 C)	eibu		KVV
Declared capacity for cooling, a	t indoor temperatur	e 27(19)°	C and	Declared energy efficiency ratio, at in-	door temperatu	re 27(19)°0	C and
outdoor temperature Tj	t in a con tomporata.	0 = 1 (10)		outdoor temperature Tj	acci tomporata	0 2. (10)	o arra
Tj=35°C	Pdc	10.00	kW	Tj=35°C	EERd	3.35]-
Tj=30°C	Pdc	7.37	kW	Tj=30°C	EERd	5.00]-
Tj=25°C	Pdc	4.74	kW	Tj=25°C	EERd	8.05]-
Tj=20°C	Pdc	3.10	kW	Tj=20°C	EERd	9.50	-
Declared capacity for heating / temperature 20°C and outdoor to		indoor		Declared coefficient of performance /		n, at indoo	or
Tj=-7°C	Pdh	7.40	lkW	temperature 20°C and outdoor tempe Tj=-7°C	COPd	3.14	1
Tj=2°C	Pdh	4.50	kW	Tj=2°C	COPd	4.02	-
Ti=7°C	Pdh	2.90	kW	Ti=7°C	COPd	5.24	-[
Tj=12°C	Pdh	2.90	kW	Tj=12°C	COPd	6.27	1_
Tj=bivalent temperature	Pdh	8.50	kW	Tj=bivalent temperature	COPd	2.50	1.
Tj=operating limit	Pdh	6.30	kW	Tj=operating limit	COPd	2.10	1-
Declared capacity for heating /		indoor		Declared coefficient of performance /		n, at indoo	r
temperature 20°C and outdoor t			TLAM	temperature 20°C and outdoor tempe			1
Tj=2°C	Pdh Pdh	-	kW kW	Tj=2°C Tj=7°C	COPd COPd	-	- 1
Tj=7°C Tj=12°C	Pdh	-	kW	Tj=7 C Tj=12°C	COPd		-
Tj=bivalent temperature	Pdh	-	kW	Tj=12 C	COPd	-	-[
Tj=operating limit	Pdh		kW	Tj=operating limit	COPd	- -	1.
in the second second				ry specialisty mine			
Declared capacity for heating /		ndoor		Declared coefficient of performance /		at indoor	
temperature 20°C and outdoor to			.	temperature 20°C and outdoor tempe			-
Tj=-7°C	Pdh	-	kW	Tj=-7°C	COPd	-	<u> </u> -
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	<u> </u> -
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	-
Tj=bivalent temperature	Pdh	-	kW kW	Tj=bivalent temperature	COPd COPd	-	- 1
Tj=operating limit Tj=-15°C	Pdh Pdh		kW	Tj=operating limit Tj=-15°C	COPd		-[
1]=-10 0	i dii		IX V V	1]=-10 0	001 0		
Bivalent temperature				Operating limit temperature			
heating / Average	Tbiv	-10	°C	heating / Average	Tol	-20	°C
heating / Warmer	Tbiv	-	°C	heating / Warmer	Tol	-	℃
heating / Colder	Tbiv	-	°C	heating / Colder	Tol	-	°C
Cyalina interval conscitu				Cycling interval efficiency			
Cycling interval capacity for cooling	Pcycc	-	kW	for cooling	EERcyc		1.
for heating	Pcych	-	kW	for heating	COPcyc		1.
	,			, and the same of	22. 3/2	-	!
Degradation coefficient				Degradation coefficient			_
cooling	Cdc	0.25	[-	heating	Cdh	0.25]-
Flactic accession to a constant		45		[A -			
Electric power input in power m off mode			īw l	Annual electricity consumption	000	E7.4	kWh/a
standby mode	Poff Psb	8.0 8.0	w	cooling heating / Average	Qce Qhe	574 2843	kWh/a
thermostat-off mode	Pto(cooling)	65.0	w	heating / Warmer	Qhe	-	kWh/a
thermostat-on mode	Pto(heating)	75.0	w	heating / volume	Qhe		kWh/a
crankcase heater mode	Pck	5.0	iw l	ricating / colder	QIIO		IKWI II U
Capacity control(indicate one of	three options)			Other items			_
				Sound power level(indoor)	Lwa	65	dB(A)
				Sound power level(outdoor)	Lwa	69	dB(A)
fixed	No			Global warming potential	GWP	675	kgCO₂eq.
staged	No			Rated air flow(indoor)	-	2,160	m ³ /h
variable	Yes			Rated air flow(outdoor)	-	4,500	m ³ /h
			,				
Contact details for obtaining				er or of its authorised representative.			
more information				ioning Europe, Ltd. e, Middlesex, UB11 1ET,			
	United Kingdom	Joiney I al	n, oxbridge	, madio30x, OD 11 1L1,			

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FDU125VNAWVH

Model(s): FDC125VNA-W	/ FDU125Vi	1					
Outdoor side heat exchanger of air	conditioner :	air					
Indoor side heat exchanger of air c	onditioner :	air					
Type: vapour compression							
if applicable : electric mot	or						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space	cooling energy		
	Prated,c	12.5	kW	efficiency ηs,c		219.8	%
Declared cooling capacity for part I	oad at given outdoor t	emperature	es	Declared energy	efficiency ratio or gas utilization ef	ficiency /	
Tj and indoor 27°C/19°C(dry/wet bu	ılb)			auxiliary energy	factor for part load at given outdoo	r temperatures Tj	
			7				,
Tj=+35°C	Pdc	12.5	kW	Tj=+35°C	EERd or	287.0	%
			7		GUEc,bin / AEFc,bin		1
Tj=+30°C	Pdc	9.2	kW	Tj=+30°C	EERd or	425.0	%
			7		GUEc,bin / AEFc,bin]
Tj=+25°C	Pdc	5.9	kW	Tj=+25°C	EERd or	705.0	%
			7		GUEc,bin / AEFc,bin		_
Tj=+20°C	Pdc	3.1	kW	Tj=+20°C	EERd or	920.0	%
			7		GUEc,bin / AEFc,bin		J
Degradation							
coefficient for	Cdc	0.25	-				
air conditioners**							
Power consumpiton in other than 'a	active mode'						
			7				,
Off mode	P_{OFF}	0.008	kW	Crankcase heate		0.008	kW
Thermostat-off mode	P _{TO}	0.075	kW	Standby mode	P_{SB}	0.008	kW
Other items							, l
0			7	For air-to-air air		4,500	m³/h
Capacity control		variable]	air flow-rate,outo	door measured		J
			7				
Sound power level,	L_WA	71.0	dB				
outdoor			_				
			7				
If engine driven:	NOx		mg/kWh				
Emissions of nitrogen	***	-	fuel input				
oxides			GCV				
OM/D - Cill-			1				
GWP of the		675	kgCO₂eq. (100years)				
refrigerant							
Out of data's	NATIONAL CONTRACTOR OF THE CON	. (.) ()	-1 1	<u> </u>			
Contact details ** If Cdc is not determined by meas	Mitsubishi heavy indus				shall be 0.25		
-	oa. omone alon the uch	aan acgida		o aii ooriaitioi1613			
*** from 26 September 2018	onilt air can du'	ho to-t	ilt ond acces	manaa data ka ata	ained on the basis of the constr		
Where information relates to multi-						ice	
of the outdoor unit, with a combina	uon or indoor unit(s) re	commende	eu by the mai	iuracturer or impor	lei.		
							ļ

Information to identify the model(s) to which	h the informa	ation relates	s: F	FDC125VNA-W	FDU125VH		
Outdoor side heat exchanger of heat pum	o :	air					
Indoor side heat exchanger of heat pump		air					
Indication if the heater is equipped with a s	supplementar			No			
if applicable : electric motor							
Parameters shall be declared for the avera	age heating s	eason , par	ameters for t	he warmer and colder he	eating seasons are optional.		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity					g energy efficiency ηs,h		
3.,,,	Prated,h	14.0	kW		5 5,	162.1	%
Declared heating capacity for part load at	ndoor tempe	rature 20°C		Declared coefficient of	performance or gas utilization e	efficiency /	
and outdoor temperature Tj				auxiliary energy factor	for part load at given outdoor te	mperatures	s Tj
T _j =-7°C	Pdh	8.7	kW	T _j =-7°C	COPd or	300.0	%
			_		GUEh,bin / AEFh,bin	000.0	ľ
T _j =+2°C	Pdh	5.3	kW	T _j =+2°C	COPd or	399.0	%
			_		GUEh,bin / AEFh,bin	333.0	, o
T _j =+7°C	Pdh	3.4	kW	T _j =+7°C	COPd or	515.0	%
			_		GUEh,bin / AEFh,bin	313.0	, o
T _j =+12°C	Pdh	2.7	kW	T _j =+12°C	COPd or	615.0	%
			_		GUEh,bin / AEFh,bin	010.0	ľ
T _{biv} =bivalent temperature	Pdh	9.8	kW	T _{biv} =bivalent	COPd or	270.0	%
				temperature	GUEh,bin / AEFh,bin	270.0	J**
T _{OL} =operation limit	Pdh	7.4	kW	T _{OL} =operation limit	COPd or	210.0	%
					GUEh,bin / AEFh,bin	210.0	/0
For air-to-water heat pumps :	Pdh	-	kW	For air-to-water heat	COPd or	_	0/
T _j =-15°C			_	pumps:T _j =-15°C	GUEh,bin / AEFh,bin	_	%
(if T _{OL} <-20°C)				(if T _{OL} <-20°C)			_
			_				_
Bivalent temperature	T _{biv}	-10.0	°C	For water-to-air heat			
				pumps:Operation lim	it	_	°C
Degradation				T _{ol} temperature			
coefficient	C_{dh}	0.25	-				-
heat pumps**							
							_
Power consumpiton in modes other than 'a	active mode'			Supplementary heate	er elbu	_	kW
			_	back-up heating capa			KVV
Off mode	P _{OFF}	0.008	kW				_
Thermostat-off mode	P _{TO}	0.090	kW	Type of energy input	P _{SB}	0.008	kW
Crankcase heater mode	P _{CK}	0.008	kW	Standby mode	, 2B	0.000	
Other items							
			_	For air-to-air heat pur	mps:	4,380	m³/h
Capacity control		variable		air flow-rate,outdoor	measured	4,000	III /II
			_				_
Sound power level,	L_{WA}	71.0	dB	For water-/brine-to-ai	ir heat pumps :		
outdoor measured	-WA	71.0	ub	Rated brine or water	flow-rate,	_	m³/h
			,	outdoor side heat exc	changer		
Emissions of nitrogen			mg/kWh				
oxides(if applicable)	NOx ***	-	fuel input				
			GCV				
			_				
GWP of the		675	kgCO₂eq.				
refrigerant			(100years)				
1							
			nal systems,l				
** If Cdh is not determined by measureme	nt then the de	efault degra	dation coeffic	cient air conditioners shal	II be 0,25.		
*** from 26 September 2018							
Where information relates to multi-spilt air	conditioners	the test res	ult and perfo	rmance data be obtained	on the basis of the performance	e	
of the outdoor unit, with a combination of in	ndoor unit(s)	recommend	ded by the ma	anufacturer or importer.			

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FDU125VSAWVH

Model(s): FDC125VSA-W /	FDU125VH					
Outdoor side heat exchanger of air condition	ner: air					
Indoor side heat exchanger of air condition	er: air					
Type: vapour compression						
if applicable : electric motor						
Item	Symbol Valu	ue Unit	Item	Symbol	Value	Unit
Rated cooling capacity			Seasonal space coo	oling energy		
	Prated,c 12.	5 kW	efficiency ηs,c		219.8	%
Declared cooling capacity for part load at g	iven outdoor tempera	atures	Declared energy effi	iciency ratio or gas utilization efficien	cy/	
Tj and indoor 27°C/19°C(dry/wet bulb)			auxiliary energy fact	or for part load at given outdoor temp	peratures Tj	j
						_
Tj=+35°C	Pdc 12.	5 kW	Tj=+35°C	EERd or	287.0	%
				GUEc,bin / AEFc,bin	207.0	
Tj=+30°C	Pdc 9.2	kW	Tj=+30°C	EERd or	425.0	%
				GUEc,bin / AEFc,bin		
Tj=+25°C	Pdc 5.9	kW	Tj=+25°C	EERd or	705.0	%
				GUEc,bin / AEFc,bin		
Tj=+20°C	Pdc 3.1	kW	Tj=+20°C	EERd or	920.0	%
				GUEc,bin / AEFc,bin	020.0],,
Degradation						
coefficient for	Cdc 0.2	5 _				
air conditioners**						
Power consumpiton in other than 'active me	ode'					
						_
Off mode	P _{OFF} 0.00	8 kW	Crankcase heater m	node P _{CK}	0.008	kW
Thermostat-off mode	P _{TO} 0.07	′5 kW	Standby mode	P_{SB}	0.008	kW
Other items						_
			For air-to-air air con	ditioner:	4,500	m³/h
Capacity control	varia	ble	air flow-rate,outdoor	measured	,,,,,],
Sound power level,	L _{WA} 71.	0 dB				
outdoor						
If engine driven:	NOx	mg/kWh				
Emissions of nitrogen	***	fuel input				
oxides		GCV				
GWP of the	679	kgCO ₂ eq.				
refrigerant		(100years)				
· ·	hi heavy industries th					
** If Cdc is not determined by measuremen	t then the default dec	gradation coefficie	ent air conditioners sha	all be 0,25.		
*** from 26 September 2018						
Where information relates to multi-spilt air	conditioners,the test	result and perforr	nance data be obtaine	ed on the basis of the performance		
of the outdoor unit, with a combination of in	door unit(s) recomme	ended by the mar	nufacturer or importer.			

Information to identify the model(s) to which	h the informa	ation relates	: F	FDC125VSA-W /	FDU125VH		
Outdoor side heat exchanger of heat pump		air					
Indoor side heat exchanger of heat pump:		air					
Indication if the heater is equipped with a s	upplementar			No			
if applicable : electric motor							
Parameters shall be declared for the avera	ge heating s	eason , par	ameters for t	he warmer and colder he	eating seasons are optional.		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity					ng energy efficiency ηs,h		
3.,,,	Prated,h	14.0	kW		3 37	162.1	%
Declared heating capacity for part load at i	ndoor tempe	rature 20°C		Declared coefficient of	performance or gas utilization e	efficiency /	
and outdoor temperature Tj				auxiliary energy factor	for part load at given outdoor te	mperatures	: Tj
			_				_
T _j =-7°C	Pdh	8.7	kW	T _j =-7°C	COPd or	300.0	%
			_		GUEh,bin / AEFh,bin		,,
T _j =+2°C	Pdh	5.3	kW	T _j =+2°C	COPd or	399.0	%
			,		GUEh,bin / AEFh,bin		, ,
T _j =+7°C	Pdh	3.4	kW	T _j =+7°C	COPd or	515.0	%
			,		GUEh,bin / AEFh,bin		,
T _j =+12°C	Pdh	2.7	kW	T _j =+12°C	COPd or	615.0	%
		_	,		GUEh,bin / AEFh,bin		
T _{biv} =bivalent temperature	Pdh	9.8	kW	T _{biv} =bivalent	COPd or	270.0	%
			,	temperature	GUEh,bin / AEFh,bin		
T _{OL} =operation limit	Pdh	7.4	kW	T _{OL} =operation limit	COPd or	210.0	%
			,		GUEh,bin / AEFh,bin		
For air-to-water heat pumps :	Pdh	_	kW	For air-to-water heat	COPd or	_	%
T _j =-15°C				pumps:T _j =-15°C	GUEh,bin / AEFh,bin		J
(if T _{OL} <-20°C)				(if T _{OL} <-20°C)			
			,				1
Bivalent temperature	T _{biv}	-10.0	°C	For water-to-air heat			
			,	pumps:Operation lim	it	_	°C
Degradation				T _{ol} temperature			J
coefficient	C_{dh}	0.25	-				
heat pumps**]				
						F	1
Power consumpiton in modes other than 'a	ctive mode'			Supplementary heate	eibu	-	kW
05	В	0.000	1	back-up heating capa	acity		J
Off mode	P _{OFF}	0.008	kW				1
Thermostat-off mode	P _{TO} P _{CK}	0.090	kW	Type of energy input	P_{SB}	0.008	kW
Crankcase heater mode	' CK	0.008	J _V vv	Standby mode			J
- ·							
Other items				For sinks als hook assu			1
O-manife, and tool		variable	1	For air-to-air heat pur		4,380	m³/h
Capacity control		variable	J	air flow-rate,outdoor	measured		J
Sound newer level			1	For water /bring to ai	ir hoot numno :		1
Sound power level, outdoor measured	L_{WA}	71.0	dB	For water-/brine-to-ai		_	m³/h
outdoor measured				outdoor side heat exc			
Emissions of nitrogen			mg/kWh	outdoor side near ext	change		1
oxides(if applicable)	NOx	_	fuel input				
oxidoo(ii appiioasio)			GCV				
			.				
GWP of the			kgCO₂eq.				
refrigerant		675	(100years)				
		_	_				
Contact details Mitsubis	hi heavy indu	stries thern	nal systems,l	LTD			
** If Cdh is not determined by measurement					ll be 0,25.		
*** from 26 September 2018							
Where information relates to multi-spilt air	conditioners	the test res	ult and perfo	rmance data be obtained	on the basis of the performance	e	
of the outdoor unit, with a combination of in	ndoor unit(s)	recommend	ded by the ma	anufacturer or importer.			

PJG000Z625A

FDU140VNAWVH

Model(s): FDC140VNA-W /	FDU140VH					
Outdoor side heat exchanger of air condit	tioner: air					
Indoor side heat exchanger of air condition	oner: air					
Type: vapour compression						
if applicable : electric motor						
Item	Symbol Valu	ue Unit	Item	Symbol	Value	Unit
Rated cooling capacity			Seasonal space of	cooling energy		
	Prated,c 13.	6 kW	efficiency ηs,c		208.8	%
Declared cooling capacity for part load at	given outdoor tempera	atures	Declared energy	efficiency ratio or gas utilization efficie	ency /	
Tj and indoor 27°C/19°C(dry/wet bulb)			auxiliary energy fa	actor for part load at given outdoor ter	nperatures Tj	i
						_
Tj=+35°C	Pdc 13.	6 kW	Tj=+35°C	EERd or	265.0	%
				GUEc,bin / AEFc,bin		
Tj=+30°C	Pdc 10 .	0 kW	Tj=+30°C	EERd or	390.0	%
				GUEc,bin / AEFc,bin]
Tj=+25°C	Pdc 6.4	kW	Tj=+25°C	EERd or	680.0	%
				GUEc,bin / AEFc,bin		
Tj=+20°C	Pdc 3.2	2 kW	Tj=+20°C	EERd or	900.0	%
				GUEc,bin / AEFc,bin		J
Degradation						
coefficient for	Cdc 0.2	5 _				
air conditioners**						
Power consumpiton in other than 'active r	mode'					
	_	_				,
Off mode	P _{OFF} 0.00		Crankcase heate		0.008	kW
Thermostat-off mode	P _{TO} 0.09	90 kW	Standby mode	P_{SB}	0.008	kW
Other items						,
Compositor company		hla	For air-to-air air c		4,500	m³/h
Capacity control	varia	Die	air flow-rate,outdo	oor measured		J
Sound power level,	L _{WA} 72.	. 0 dB				
outdoor						
If engine driven:	NOx	mg/kWh				
Emissions of nitrogen	***	fuel input				
oxides		GCV				
GWP of the		kgCO ₂ eq.				
	67	5 (100years)				
refrigerant						
Contact details Mitsub	ishi heavy industries th	nermal eveteme I	TD.			
** If Cdc is not determined by measurement				shall be 0,25.		
*** from 26 September 2018		-				
Where information relates to multi-spilt ai	r conditioners the test	result and perform	mance data he obta	ined on the basis of the performance		
of the outdoor unit, with a combination of						
S. a.o outdoor drift, with a combination of		onded by the illai	.a.aotaroi oi import	···		
L						

Information to identify the model(s) to which	the informa	ition relates	: F	FDC140VNA-W	FDU140VH		
Outdoor side heat exchanger of heat pump	:	air					
Indoor side heat exchanger of heat pump :		air					
Indication if the heater is equipped with a su	upplementar			No			
if applicable : electric motor							
Parameters shall be declared for the average	ge heating s	eason , par	ameters for t	he warmer and colder he	eating seasons are optional.		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity					g energy efficiency ηs,h		
	Prated,h	15.5	kW			157.4	%
							l
Declared heating capacity for part load at in	idoor tempe	rature 20°C			performance or gas utilization of		
and outdoor temperature Tj				auxiliary energy factor	for part load at given outdoor te	emperatures	: Tj
T 700	Dalls	9.3	1 _{kW}	T 7%	0001		1
Tj=-7°C	Pdh	3.3	IKVV	T _j =-7°C	COPd or	295.0	%
T 1000	D.II.	5.6	1	T .0%0	GUEh,bin / AEFh,bin		-
T _j =+2°C	Pdh	5.0	kW	T _j =+2°C	COPd or	385.0	%
T .7%	Pdh	3.6	lkw	T : 790	GUEh,bin / AEFh,bin		-
T _j =+7°C	Pull	3.0	Jĸvv	T _j =+7°C	COPd or	500.0	%
T 140%	Dalls	2.7	1	T .40%	GUEh,bin / AEFh,bin		-
T _j =+12°C	Pdh	2.1	kW	T _j =+12°C	COPd or	596.0	%
T. bhalanttanan antina	Dalls	10.5	1	T bloodest	GUEh,bin / AEFh,bin		
T _{biv} =bivalent temperature	Pdh	10.5	kW	T _{biv} =bivalent temperature	COPd or	270.0	%
		7.9	1		GUEh,bin / AEFh,bin		-
T _{OL} =operation limit	Pdh	7.5	kW	T _{OL} =operation limit	COPd or	220.0	%
			1		GUEh,bin / AEFh,bin		-
For air-to-water heat pumps :	Pdh		kW	For air-to-water heat		-	%
T _j =-15°C				pumps:T _j =-15°C	GUEh,bin / AEFh,bin		J
(if T _{OL} <-20°C)				(if T _{OL} <-20°C)			
Divolent temperature	_	-10.0] ₀	For water-to-air heat			1
Bivalent temperature	T _{biv}	-10.0] c	pumps:Operation lim	it	_	°C
Degradation			1	T _{ol} temperature			
coefficient	C	0.25		1 ₀ tomporatoro			J
heat pumps**	C_{dh}	0.20	-				
noat pampo			J				
Bower consumption in modes other than 'a	otivo modo!			Cupplementary heats			1
Power consumpiton in modes other than 'a	ctive mode			Supplementary heater	eibu	-	kW
Off mode	P _{OFF}	0.008	kW	back-up heating capa	acity		J
Thermostat-off mode	P _{TO}	0.100	kW	Type of energy input			1
Crankcase heater mode	P _{CK}	0.008	kW	Standby mode	P_{SB}	0.008	kW
	OK .			Staridby mode			
Other items							
outer terms				For air-to-air heat pur	mne:		1.
Capacity control		variable	1	air flow-rate,outdoor		4,380	m³/h
Supposity Control			_	all now rate, outdoor	medadied		
Sound power level,			1	For water-/brine-to-ai	ir heat numns :		1
outdoor measured	L _{WA}	73.0	dB	Rated brine or water		_	m³/h
Salabor moadaroa			4	outdoor side heat exc			
Emissions of nitrogen			mg/kWh	Catagor Glad Hoat Oxi	onango.		
oxides(if applicable)	NOx	_	fuel input				
			GCV				
			•				
GWP of the			kgCO₂eq.				
refrigerant		675	(100years)				
3.1.1			-				
Contact details Mitsubish	i heavy indu	stries thern	nal systems,l	LTD			
** If Cdh is not determined by measuremen					II be 0,25.		
*** from 26 September 2018							
Where information relates to multi-spilt air of	conditioners.	the test res	ult and perfor	rmance data be obtained	on the basis of the performance	e	
of the outdoor unit, with a combination of in-							
	. ,		-	•			

PJG000Z625A

FDU140VSAWVH

Model(s): FDC140VSA-W	FDU140VI	1					
Outdoor side heat exchanger of air condition	oner :	air					
Indoor side heat exchanger of air condition	er:	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space co	oling energy		
	Prated,c	13.6	kW	efficiency ηs,c	•	208.8	%
Declared cooling capacity for part load at g	iven outdoor t	emperature	es	Declared energy ef	ficiency ratio or gas utilization efficien	cv /	
Tj and indoor 27°C/19°C(dry/wet bulb)		·			ctor for part load at given outdoor temp	-	
Tj=+35°C	Pdc	13.6	kW	Tj=+35°C	EERd or	005.0	
			-		GUEc,bin / AEFc,bin	265.0	%
Tj=+30°C	Pdc	10.0	kW	Tj=+30°C	EERd or	200.0	0,
			-		GUEc,bin / AEFc,bin	390.0	%
Tj=+25°C	Pdc	6.4	kW	Tj=+25°C	EERd or	680.0	0,
			-		GUEc,bin / AEFc,bin	660.0	%
Tj=+20°C	Pdc	3.2	kW	Tj=+20°C	EERd or	900.0	0,
			_		GUEc,bin / AEFc,bin	900.0	%
Degradation							
coefficient for	Cdc	0.25	-				
air conditioners**							
			_				
Power consumpiton in other than 'active m	ode'						
			_				_
Off mode	P_{OFF}	0.008	kW	Crankcase heater	mode P _{CK}	0.008	kW
Thermostat-off mode	P_{TO}	0.090	kW	Standby mode	P_{SB}	0.008	kW
Other items							,
			7	For air-to-air air co	nditioner:	4,500	m ³ /h
Capacity control		variable]	air flow-rate,outdoo	or measured	.,]''' /''
			7				
Sound power level,	L_WA	72.0	dB				
outdoor							
			7				
If engine driven:	NOx		mg/kWh				
Emissions of nitrogen	***	-	fuel input				
oxides			GCV				
			7				
GWP of the		675	kgCO ₂ eq. (100years)				
refrigerant			(Todyears)				
1				<u> </u>			
·	hi heavy indus		•				
** If Cdc is not determined by measuremer	il then the def	auit degrad	auon coefficie	ent air conditioners sh	iaii ue U,25.		
*** from 26 September 2018							
Where information relates to multi-spilt air							
of the outdoor unit, with a combination of ir	ndoor unit(s) re	ecommende	ed by the mar	nufacturer or importer	`.		

Information to identify the model(s) to which	n the informa	ation relates	: F	FDC140VSA-W /	FDU140VH		
Outdoor side heat exchanger of heat pump	:	air					
Indoor side heat exchanger of heat pump:		air					
Indication if the heater is equipped with a si	upplementar			No			
if applicable : electric motor							
Parameters shall be declared for the average	ge heating s	eason , par	ameters for t	he warmer and colder he	eating seasons are optional.		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity				Seasonal space heating	ng energy efficiency ηs,h		
	Prated,h	15.5	kW			157.4	%
Declared heating capacity for part load at ir	ndoor tempe	rature 20°C		Declared coefficient of	performance or gas utilization e	efficiency /	
and outdoor temperature Tj				auxiliary energy factor	for part load at given outdoor te	mperatures	: Tj
			_				
T _j =-7°C	Pdh	9.3	kW	T _j =-7°C	COPd or	295.0	%
			,		GUEh,bin / AEFh,bin		
T _j =+2°C	Pdh	5.6	kW	T _j =+2°C	COPd or	385.0	%
			,		GUEh,bin / AEFh,bin		
T _j =+7°C	Pdh	3.6	kW	T _j =+7°C	COPd or	500.0	%
			,		GUEh,bin / AEFh,bin		
T _j =+12°C	Pdh	2.7	kW	T _j =+12°C	COPd or	596.0	%
			1		GUEh,bin / AEFh,bin		
T _{biv} =bivalent temperature	Pdh	10.5	kW	T _{biv} =bivalent temperature	COPd or	270.0	%
			,		GUEh,bin / AEFh,bin		
T _{OL} =operation limit	Pdh	7.9	kW	T _{OL} =operation limit	COPd or	220.0	%
			1		GUEh,bin / AEFh,bin		
For air-to-water heat pumps :	Pdh	_	kW	For air-to-water heat		_	%
T _j =-15°C				pumps:T _j =-15°C	GUEh,bin / AEFh,bin		J
(if T _{OL} <-20°C)				(if T _{OL} <-20°C)			
	_	40.0	1	Formation to all boots			1
Bivalent temperature	T _{biv}	-10.0	°C	For water-to-air heat	14		°C
Degradation			1	pumps:Operation lim	IT	_	
Degradation coefficient	_	0.25		T _{ol} temperature			J
heat pumps**	C_{dh}	0.25	-				
near pumps			J				
Davier consumption in modes other than to	ativa madal			Cumplementers beats			1
Power consumpiton in modes other than 'a	ctive mode			Supplementary heate	eibu	-	kW
Off mode	P _{OFF}	0.008	kW	back-up heating capa	acity		J
Thermostat-off mode	P _{TO}	0.100	kW	Type of energy input			1
Crankcase heater mode	P _{CK}	0.008	kW	Standby mode	P_{SB}	0.008	kW
			1	Cianaby mode			
Other items							
				For air-to-air heat pur	mps:] ,
Capacity control		variable]	air flow-rate,outdoor		4,380	m³/h
			-				•
Sound power level,		70.0	J.D.	For water-/brine-to-a	ir heat pumps :]
outdoor measured	L _{WA}	73.0	dB	Rated brine or water		_	m³/h
			-	outdoor side heat ex	changer		
Emissions of nitrogen			mg/kWh			-	•
oxides(if applicable)	NOx ***	_	fuel input				
			GCV				
			_				
GWP of the		675	kgCO ₂ eq.				
refrigerant			(100years)				
1							
-			nal systems,l				
** If Cdh is not determined by measuremen	it then the de	etault degra	dation coeffic	cient air conditioners shal	II be 0,25.		
*** from 26 September 2018							
Where information relates to multi-spilt air of					on the basis of the performance	e	
of the outdoor unit, with a combination of in	door unit(s)	recommend	ded by the ma	anufacturer or importer.			

PJG000Z625A

Models FDU100VH, 125VH, 140VH

Model(s): FDU100VH									
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Unit		
Cooling capacity (sensible)	$P_{\text{rated,c}}$	7.7	kW	Total electric power input	P _{elec}	0.350	kW		
Cooling capacity (latent)	P _{rated,c}	2.3	kW	Sound power level (per speed setting,if applicable)	L _{WA}	65.0	dB		
Heating capacity	$P_{\text{rated},h}$	11.2	kW						
Contact details	Mitsubishi	litsubishi heavy industries thermal systems,LTD							

Model(s): FDU125VH									
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Unit		
Cooling capacity (sensible)	$P_{rated,c}$	10.5	kW	Total electric power input	P_{elec}	0.400	kW		
Cooling capacity (latent)	P _{rated,c}	2.0	kW	Sound power level (per speed setting,if applicable)	L_{WA}	67.0	dB		
Heating capacity	$P_{rated,h}$	14.0	kW						
Contact details	Mitsubishi I	itsubishi heavy industries thermal systems,LTD							

Model(s): FDU140VH									
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Unit		
Cooling capacity (sensible)	$P_{rated,c}$	11.2	kW	Total electric power input	P _{elec}	0.550	kW		
Cooling capacity (latent)	P _{rated,c}	2.8	kW	Sound power level (per speed setting,if applicable)	L _{WA}	70.0	dB		
Heating capacity	P _{rated,h}	16.0	kW						
Contact details	Mitsubishi	litsubishi heavy industries thermal systems,LTD							

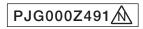
(4) Duct connected-Low/Middle static pressure type (FDUM) FDUM100VNAWVH

Information to identify the mode Indoor unit model name Outdoor unit model name	el(s) to which the inf FDUM100 FDC100V)VH	ites to:	o: If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'				
	11 50 1001	IVA-IV				19 3003011	Average .	
Function(indicate if present)	Vac			Average(mandatory)	Yes No			
cooling heating	Yes Yes			Warmer(if designated) Colder(if designated)	No			
Trodaing .	1 .00			cordor (in doorgreated)				
Item	symbol	value un	it	Item		value	class	
Design load	Ddooigno	400 1/1	,	Seasonal efficiency and energy efficiency		6.14	A + +	
cooling heating / Average	Pdesignc Pdesignh	10.0 kV 8.5 kV		cooling heating / Average	SEER SCOP/A	6.11 4.19	A++ A+	
heating / Warmer	Pdesignh	- kV		heating / Warmer	SCOP/W		-	
heating / Colder	Pdesignh	- kV		heating / Colder	SCOP/C	-	-	
							unit	
Declared capacity at outdoor te		n 8.5 kW	, I	Back up heating capacity at outdoor t			kW	
heating / Average (-10°C) heating / Warmer (2°C)	Pdh Pdh	- kV		heating / Average (-10°C) heating / Warmer (2°C)	elbu elbu		kW	
heating / Colder (-22°C)	Pdh	- kV		heating / Colder (-22°C)	elbu		kW	
	•	•						
Declared capacity for cooling, a	it indoor temperatur	e 27(19)℃ a	nd	Declared energy efficiency ratio, at in	door tempera	ture 27(19	9)°C and	
outdoor temperature Tj Tj=35°C	Pdc	10.00 kV	, I	outdoor temperature Tj Tj=35°C	EERd	3.35	i	
Tj=30°C	Pdc	7.37 kV		Tj=30°C	EERd	5.00	-	
Tj=25°C	Pdc	4.74 kV		Tj=25°C	EERd	8.05	-	
Tj=20°C	Pdc	3.10 kV	V	Tj=20°C	EERd	9.50	-	
Declared capacity for heating / temperature 20°C and outdoor		indoor		Declared coefficient of performance / temperature 20°C and outdoor tempe		son, at ind	ioor	
Tj=-7°C	Pdh	7.40 kV	_v	Ti=-7°C	COPd	3.14]-	
Tj=2°C	Pdh	4.50 kV		Tj=2°C	COPd	4.02	-	
Tj=7°C	Pdh	2.90 kV	V	Tj=7°C	COPd	5.24	-	
Tj=12°C	Pdh	2.90 kV		Tj=12°C	COPd	6.27	-	
Tj=bivalent temperature Tj=operating limit	Pdh Pdh	8.50 kV 6.30 kV		Tj=bivalent temperature Tj=operating limit	COPd COPd	2.50 2.10	-	
1)-operating infint	1 dii	0.50 KV	v	1)-operating limit	COLU	2.10	<u> </u>	
Declared capacity for heating /	Warmer season, at	indoor		Declared coefficient of performance /	Warmer sea	son, at ind	oor	
temperature 20°C and outdoor				temperature 20°C and outdoor tempe				
Tj=2°C	Pdh	- kV		Tj=2°C Tj=7°C	COPd		-	
Tj=7°C Tj=12°C	Pdh Pdh	- kV		Ti=12°C	COPd COPd	-		
Tj=bivalent temperature	Pdh	- kV		Tj=bivalent temperature	COPd		_	
Tj=operating limit	Pdh	- kV		Tj=operating limit	COPd	-	-	
Declared capacity for heating / temperature 20°C and outdoor 1j=-7°C Tj=2°C Tj=7°C Tj=bivalent temperature Tj=operating limit	temperature Tj Pdh Pdh Pdh Pdh Pdh Pdh	- kW - kW - kW - kW - kW	V V V V	Declared coefficient of performance / temperature 20°C and outdoor tempe Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit	rature Tj COPd COPd COPd COPd COPd COPd COPd	-	or - - - - -	
Tj=-15°C	Pdh	- kV	V	Tj=-15°C	COPd		-	
Bivalent temperature				Operating limit temperature				
heating / Average	Tbiv	-10 ℃		heating / Average	Tol	-20	°C	
heating / Warmer	Tbiv	- ℃		heating / Warmer	Tol	<u> </u>	°C	
heating / Colder	Tbiv	- °C		heating / Colder	Tol		l°C	
Cycling interval capacity				Cycling interval efficiency				
for cooling	Pcycc	- kV	v	for cooling	EERcyc	-]-	
for heating	Pcych	- kV	V	for heating	COPcyc	-	-	
Degradation apofficient				Degradation applicant				
Degradation coefficient cooling	Cdc	0.25 -		Degradation coefficient heating	Cdh	0.25	1_	
cooming	Odo	0.20		noung	Cuit	0.20		
Electric power input in power m				Annual electricity consumption				
off mode	Poff	8 W		cooling	Qce		kWh/a	
standby mode thermostat-off mode	Psb Pto(cooling)	8 W 65 W		heating / Average heating / Warmer	Qhe Qhe		kWh/a kWh/a	
thermostat-on mode	Pto(heating)	75 W		heating / valiner	Qhe		kWh/a	
crankcase heater mode	Pck	5 W						
	•	,						
Capacity control(indicate one or	f three options)			Other items	Luca	CE	[MD/V)	
				Sound power level(indoor) Sound power level(outdoor)	Lwa Lwa	65 69	dB(A) dB(A)	
fixed	No			Global warming potential	GWP	675	kgCO₂eq.	
staged	No			Rated air flow(indoor)	-	2160	m³/h	
variable	Yes			Rated air flow(outdoor)	-	4500	m³/h	
Contact details for obtaining	Name and address	e of the man	ufacturo	er or of its authorised representative.				
more information	Mitsubishi Heavy	Industries Air	-Conditi	e, Middlesex, UB11 1ET,				

PJG000Z491<u></u>

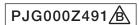
FDUM100VSAWVH

Information to identify the model(Indoor unit model name Outdoor unit model name	s) to which the information relates to FDUM100VH FDC100VSA-W	If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.				
	DO 100 V OA-10					
Function(indicate if present) cooling	Yes	Average(mandatory) Warmer(if designated)	Yes No			
heating	Yes	Colder(if designated)	No			
Item	symbol value unit	Item	symbol value class			
Design load	Delaciona 400 IAW	Seasonal efficiency and energy effic				
cooling heating / Average	Pdesignc 10.0 kW Pdesignh 8.5 kW	cooling heating / Average	SEER 6.11 A++ SCOP/A 4.19 A+			
heating / Warmer	Pdesignh - kW	heating / Warmer	SCOP/W			
heating / Colder	Pdesignh - kW	heating / Colder	SCOP/C unit			
Declared capacity at outdoor tem		Back up heating capacity at outdoor	r temperature T <u>designh</u>			
heating / Average (-10°C) heating / Warmer (2°C)	Pdh 8.5 kW Pdh - kW	heating / Average (-10°C) heating / Warmer (2°C)	elbu 0 kW elbu - kW			
heating / Colder (-22°C)	Pdh - kW	heating / Warmer (2 C)	elbu - kW			
Declared connects for cooling at i	ndeer temperature 27/10\°C and	Declared operay officionsy ratio at	indeer temperature 27/10\°C and			
Declared capacity for cooling, at i outdoor temperature Tj	ndoor temperature 27 (19) C and	Declared energy efficiency ratio, at outdoor temperature Tj	indoor temperature 27(19) C and			
Tj=35°C	Pdc 10.00 kW	Tj=35°C	EERd 3.35 -			
Tj=30°C Tj=25°C	Pdc 7.37 kW Pdc 4.74 kW	Tj=30°C Tj=25°C	EERd 5.00 - EERd 8.05 -			
Tj=20°C	Pdc 3.10 kW	Tj=20°C	EERd 9.50 -			
Declared capacity for heating / Av	verage season, at indoor	Declared coefficient of performance	A / Average season, at indoor			
temperature 20°C and outdoor tel		Declared coefficient of performance temperature 20°C and outdoor temp				
Tj=-7°C	Pdh 7.40 kW	Tj=-7°C	COPd 3.14 -			
Tj=2°C Ti=7°C	Pdh 4.50 kW Pdh 2.90 kW	Tj=2°C Tj=7°C	COPd 4.02 - COPd 5.24 -			
Tj=12°C	Pdh 2.90 kW	Tj=12°C	COPd 6.27 -			
Tj=bivalent temperature	Pdh 8.50 kW Pdh 6.30 kW	Tj=bivalent temperature	COPd 2.50 - COPd 2.10 -			
Tj=operating limit	Pull 6.30 KVV	Tj=operating limit	COPu 2.10 -			
Declared capacity for heating / W		Declared coefficient of performance				
temperature 20°C and outdoor tell Tj=2°C	mperature IJ Pdh - kW	temperature 20°C and outdoor temp	COPd			
Tj=7°C	Pdh - kW	Tj=7°C	COPd			
Tj=12°C	Pdh - kW	Tj=12°C	COPd			
Tj=bivalent temperature Tj=operating limit	Pdh - kW Pdh - kW	Tj=bivalent temperature Tj=operating limit	COPd			
	lder en et inden		/ O-ld			
Declared capacity for heating / Contemperature 20°C and outdoor ten		Declared coefficient of performance temperature 20°C and outdoor 20°C a				
Tj=-7°C	PdhkW	Tj=-7℃	COPd			
Tj=2°C	Pdh - kW Pdh - kW	Tj=2°C Tj=7°C	COPd			
Tj=7°C Tj=12°C	Pdh - kW	T =7 C T =12°C	COPd			
Tj=bivalent temperature	Pdh - kW	Tj=bivalent temperature	COPd			
Tj=operating limit Tj=-15°C	Pdh - kW Pdh - kW	Tj=operating limit Tj=-15℃	COPd			
1]=-10-0	1 dii - 100		- Jon u			
Bivalent temperature heating / Average	Tbiv -10 ℃	Operating limit temperature heating / Average	Tol -20 ℃			
heating / Warmer	Tbiv - °C	heating / Average	Tol -20 ℃			
heating / Colder	Tbiv - °C	heating / Colder	Tol - °C			
Cycling interval capacity		Cycling interval efficiency				
for cooling	Pcycc - kW	for cooling	EERcyc			
for heating	Pcych - kW	for heating	COPcyc			
Degradation coefficient		Degradation coefficient				
cooling	Cdc 0.25 -	heating	Cdh 0.25 -			
Electric power input in power mod	des other than 'active mode'	Annual electricity consumption				
off mode standby mode	Poff 8 W Psb 8 W	cooling heating / Average	Qce 574 kWh/a Qhe 2843 kWh/a			
thermostat-off mode	Pto(cooling) 65 W	heating / Warmer	Qhe - kWh/a			
	Pto(heating) 75 W	heating / colder	Qhe - kWh/a			
crankcase heater mode	Pck 5 W	_				
Capacity control(indicate one of t	nree options)	Other items	I OF Up(*)			
		Sound power level(indoor) Sound power level(outdoor)	Lwa 65 dB(A) Lwa 69 dB(A)			
fixed	No	Global warming potential	GWP 675 kgCO₂eq.			
staged	No Yes	Rated air flow(indoor)	- 2160 m³/h - 4500 m³/h			
variable	1 1 8 5	Rated air flow(outdoor)	- 4500 m³/h			
		urer or of its authorised representative.				
	Mitsubishi Heavy Industries Air-Con 5 The Square, Stockley Park, Uxbrid					
	United Kingdom	, ,				



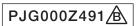
FDUM100VNAWPVH

Information to identify the mode	(s) to which the inforn	nation relates to:	If function includes heating: Indicat	e the heating se	eason the	
Indoor unit model name	FDUM50VH	x2	information relates to. Indicated va			
Outdoor unit model name	FDC100VNA	-W	heating season at a time. Include at	least the heating	ig season	'Average'.
Function(indicate if present)			Average(mandatory)	Yes		
cooling	Yes		Warmer(if designated)	No		
heating	Yes		Colder(if designated)	No		
Item	symbol val	ue unit	Item	symbol	value	class
Design load	Syllibol val	de dilit	Seasonal efficiency and energy eff		value	Class
cooling		10.0 kW	cooling	SEER	5.82	A+
heating / Average	Pdesignh	8.5 kW	heating / Average	SCOP/A	4.00	A+
heating / Warmer heating / Colder	Pdesignh Pdesignh	- kW - kW	heating / Warmer heating / Colder	SCOP/W SCOP/C	<u> </u>	-
neuting / Colder	r deoignin	1000	ricating / Colder	000170		unit
Declared capacity at outdoor ter			Back up heating capacity at outdoo			7.14
heating / Average (-10°C) heating / Warmer (2°C)	Pdh Pdh	8.5 kW - kW	heating / Average (-10°C) heating / Warmer (2°C)	elbu elbu	-	kW kW
heating / Colder (-22°C)	Pdh	- kW	heating / Colder (-22°C)	elbu	<u> </u>	kW
	•					·
Declared capacity for cooling, a	indoor temperature 2	7(19)°C and	Declared energy efficiency ratio, at	indoor tempera	ature 27(1	9)°C and
outdoor temperature Tj Tj=35°C	Pdc 1	0.00 kW	outdoor temperature Tj Tj=35°C	EERd	3.08	٦.
Tj=30°C		7.37 kW	Tj=30°C	EERd	5.00	-
Tj=25°C		4.74 kW	Tj=25℃	EERd	7.50]-
Tj=20°C	Pdc	3.45 kW	Tj=20°C	EERd	11.30	-
Declared capacity for heating / A	Average season, at inc	door	Declared coefficient of performance	e / Average sea	son, at in	door
temperature 20°C and outdoor t	emperature Tj		temperature 20°C and outdoor tem	perature Tj		_
Tj=-7°C Ti=2°C		7.40 kW	Tj=-7°C	COPd	2.84	վ-
Tj=2°C		4.50 kW 2.90 kW	Tj=2°C Tj=7°C	COPd COPd	4.03 4.85	-1.
Tj=12℃	· · · · · · · · · · · · · · · · · · ·	2.93 kW	Tj=12℃	COPd	5.79	╡.
Tj=bivalent temperature		8. 50 kW	Tj=bivalent temperature	COPd	2.40]-
Tj=operating limit	Pdh	6.30 kW	Tj=operating limit	COPd	2.00	ļ-
Declared capacity for heating / \	Warmer season, at inc	loor	Declared coefficient of performance	e / Warmer sea	son, at in	door
temperature 20°C and outdoor to	emperature Tj		temperature 20°C and outdoor tem	perature Tj		_
Tj=2°C	Pdh	- kW	Tj=2°C	COPd	<u> </u>	- -
Tj=7°C Tj=12°C	Pdh Pdh	- kW - kW	Tj=7°C Tj=12°C	COPd COPd	-	-[:
Tj=bivalent temperature	Pdh	- kW	Tj=bivalent temperature	COPd	-	- -
Tj=operating limit	Pdh	- kW	Tj=operating limit	COPd	-	-
Declared capacity for heating / 0	Colder season, at indo	or	Declared coefficient of performance	e / Colder seas	on at indu	oor
temperature 20°C and outdoor to		Oi	temperature 20°C and outdoor tem		Jii, at iliut	001
Tj=-7°C	Pdh	- kW	Tj=-7°C	COPd	-]-
Tj=2°C Tj=7°C	Pdh Pdh	- kW	Tj=2°C Ti=7°C	COPd COPd	-	
Tj=7 C	Pdh	- kW		COPd	H	-{:
Tj=bivalent temperature	Pdh	- kW	Tj=bivalent temperature	COPd	-]-
Tj=operating limit	Pdh	- kW	Tj=operating limit	COPd		
Tj=-15°C	Pdh	- kW	Tj=-15°C	COPd	-	<u> -</u>
Bivalent temperature			Operating limit temperature			
heating / Average	Tbiv	-10 °C	heating / Average	Tol	-20	_°C
heating / Warmer heating / Colder	Tbiv Tbiv	- °C	heating / Warmer heating / Colder	Tol Tol	<u> </u>	ာိင ့
neating / Colder	TDIV	- 0	rieating / Colder	101		10
Cycling interval capacity		1	Cycling interval efficiency			
for cooling	Pcycc	- kW	for cooling	EERcyc	-	
for heating	Pcych	- kW	for heating	COPcyc		J-
Degradation coefficient			Degradation coefficient			
cooling	Cdc	0.25 -	heating	Cdh	0.25	-
Electric power input in power mo	ndes other than 'active	mode'	Annual electricity consumption			
off mode	Poff	15 W	cooling	Qce	602	kWh/a
standby mode	Psb	15 W	heating / Average	Qhe	2974	kWh/a
thermostat-off mode		110 W 130 W	heating / Warmer heating / colder	Qhe	-	kWh/a
crankcase heater mode	Pto(heating)	5 W	rieating / colder	Qhe		kWh/a
		1				
Capacity control(indicate one of	three options)		Other items	1	-	Tab(A)
			Sound power level(indoor) Sound power level(outdoor)	Lwa Lwa	60 69	dB(A) dB(A)
fixed	No		Global warming potential	GWP	675	kgCO₂eq.
staged	No		Rated air flow(indoor)	-	780	m³/h
variable	Yes		Rated air flow(outdoor)	-	4500	m³/h
Contact details for obtaining	Name and address o	f the manufacture	er or of its authorised representative.			
more information	Mitsubishi Heavy Ind	ustries Air-Condit	tioning Europe, Ltd.			
	5 The Square, Stockl United Kingdom	ey Park, Uxbridge	e, Middlesex, UB11 1ET,			



FDUM100VSAWPVH

Information to identify the model(s		relates to:	If function includes heating: Indicate		
Indoor unit model name Outdoor unit model name	FDUM50VH x2 FDC100VSA-W		information relates to. Indicated value heating season at a time. Include at I		
Function(indicate if present)			Average(mandatory)	Yes	
cooling heating	Yes Yes		Warmer(if designated) Colder(if designated)	No No	
ricating	162		Colder(ii designated)	INO	
Item	symbol value	unit	Item		value class
Design load cooling	Pdesignc 10.0	1 _{kW}	Seasonal efficiency and energy efficiency cooling	SEER	5.82 A+
heating / Average	Pdesignh 8.5	kW	heating / Average	SCOP/A	4.00 A+
heating / Warmer heating / Colder	Pdesignh - Pdesignh -	kW kW	heating / Warmer heating / Colder	SCOP/W SCOP/C	
rieating / Coidei	ruesigiiii -	KVV	rieating / Colder	300F/C [unit
Declared capacity at outdoor tem		1	Back up heating capacity at outdoor		
heating / Average (-10°C) heating / Warmer (2°C)	Pdh 8.5	kW kW	heating / Average (-10°C) heating / Warmer (2°C)	elbu elbu	0 kW - kW
heating / Colder (-22°C)	Pdh -	kW	heating / Colder (-22°C)	elbu	- kW
Designed conscitutor earling at i	adaar tamaaratura 27/40\°	Cand	Declared anarous officionas, rotio et i		una 27/40\°O and
Declared capacity for cooling, at i outdoor temperature Tj	ndoor temperature 27(19)	C and	Declared energy efficiency ratio, at i outdoor temperature Tj	ndoor temperat	lure 27 (19) C and
Tj=35℃	Pdc 10.00	kW	Tj=35°C	EERd [3.08 -
Tj=30°C Tj=25°C	Pdc 7.37 Pdc 4.74	kW kW	Tj=30°C Tj=25°C	EERd EERd	5.00 - 7.50 -
Tj=20°C	Pdc 4.74	kW	Tj=20°C	EERd	11.30 -
				•	
Declared capacity for heating / Avtemperature 20°C and outdoor ter			Declared coefficient of performance temperature 20°C and outdoor temp		son, at indoor
Tj=-7°C	Pdh 7.40	kW	Tj=-7°C	COPd [2.84 -
Tj=2°C	Pdh 4.50	kW	Tj=2°C	COPd	4.03 -
Tj=7°C Tj=12°C	Pdh 2.90 Pdh 2.93	kW kW	Tj=7°C Ti=12°C	COPd COPd	4.85 5.79
Tj=bivalent temperature	Pdh 8.50	kW	Tj=bivalent temperature	COPd	2.40 -
Tj=operating limit	Pdh 6.30	kW	Tj=operating limit	COPd	2.00 -
Declared capacity for heating / W	armer season, at indoor		Declared coefficient of performance	/ Warmer seas	on, at indoor
temperature 20°C and outdoor ter			temperature 20°C and outdoor temp		
Tj=2°C Tj=7°C	Pdh -	kW kW	Tj=2°C Tj=7°C	COPd COPd	
Tj=12°C	Pdh -	kW	Tj=12°C	COPd	
Tj=bivalent temperature	Pdh -	kW	Tj=bivalent temperature	COPd	
Tj=operating limit	Pdh -	kW	Tj=operating limit	COPd	- -
Declared capacity for heating / Co			Declared coefficient of performance		n, at indoor
temperature 20°C and outdoor ter	nperature Tj Pdh -	lkW	temperature 20°C and outdoor temp	erature Tj COPd 「	
Tj=-7 C	Pdh -	kW	Ti=2°C	COPd	
Tj=7°C	Pdh -	kW	Tj=7°C	COPd	
Tj=12°C Tj=bivalent temperature	Pdh -	kW kW	Tj=12°C Tj=bivalent temperature	COPd COPd	<u> </u>
Tj=operating limit	Pdh -	kW	Tj=operating limit	COPd	
Tj=-15°C	Pdh -	kW	Tj=-15℃	COPd	
Bivalent temperature			Operating limit temperature		
heating / Average	Tbiv -10	°C	heating / Average	Tol	-20 ℃
heating / Warmer heating / Colder	Tbiv -	ိုင ိ	heating / Warmer heating / Colder	Tol Tol	 ∵ - ∵
neating / Colder	TDIV -	, C	ineating / Colder	101	- 0
Cycling interval capacity		1	Cycling interval efficiency	T	
for cooling for heating	Pcycc - Pcych -	kW kW	for cooling for heating	EERcyc COPcyc	
	. 6,6			oo. ojo j	· · · · · · · · · · · · · · · · · · ·
Degradation coefficient	Cdo 0.25	, I	Degradation coefficient	Cdb [0.25
cooling	Cdc 0.25	-	heating	Cdh	0.25 -
Electric power input in power mod		- I	Annual electricity consumption		
off mode standby mode	Poff 15 Psb 15	W	cooling heating / Average	Qce Qhe	602 kWh/a 2974 kWh/a
thermostat-off mode	Pto(cooling) 110	w	heating / Warmer	Qhe	- kWh/a
	Pto(heating) 130	W	heating / colder	Qhe	- kWh/a
crankcase heater mode	Pck 5	W			
Capacity control(indicate one of the	nree options)		Other items		
			Sound power level(indoor) Sound power level(outdoor)	Lwa Lwa	60 dB(A) 69 dB(A)
fixed	No		Global warming potential	GWP	675 kgCO₂eq.
staged	No		Rated air flow(indoor)	- [780 m³/h
variable	Yes		Rated air flow(outdoor)	-	4500 m³/h
			er or of its authorised representative.		
	/litsubishi Heavy Industries The Square, Stockley Par				
	The Square, Stockley Par Jnited Kingdom	r, oxbilage	s, muulesex, UDTTTET,		
	<u> </u>				



FDUM125VNAWVH

Model(s): FDC125VNA-W	/ FDUM125	VH					
Outdoor side heat exchanger of a	ir conditioner :	air					
Indoor side heat exchanger of air	conditioner :	air					
Type: vapour compression							
if applicable : electric mot	or						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space	cooling energy		
	Prated,c	12.5	kW	efficiency ηs,c		219.8	%
Declared cooling capacity for part	load at given outdoo	r temperati	ures	Declared energy	efficiency ratio or gas utilization ef	ficiency /	
Tj and indoor 27°C/19°C(dry/wet b	ulb)			auxiliary energy	factor for part load at given outdoor	r temperatures	Tj
			7				1
Tj=+35°C	Pdc	12.5	kW	Tj=+35°C	EERd or	287.0	%
			7		GUEc,bin / AEFc,bin		_
Tj=+30°C	Pdc	9.2	kW	Tj=+30°C	EERd or	425.0	%
T: .0500	5.		٦		GUEc,bin / AEFc,bin		1
Tj=+25°C	Pdc	5.9	kW	Tj=+25°C	EERd or	705.0	%
Ti-+20°C	D4-	2.4	الديد		GUEc,bin / AEFc,bin		
Tj=+20°C	Pdc	3.1	kW	Tj=+20°C	EERd or	920.0	%
			1		GUEc,bin / AEFc,bin		1
Degradation		0.25					
coefficient for	Cdc	0.25	-				
air conditioners**			J				
Dower consumpitor in other than	lastiva madal						
Power consumpiton in other than	active mode						
Off mode	P _{OFF}	0.008	kW	Crankcase heat	er mode P _{CK}	0.008	kW
Thermostat-off mode	P _{TO}	0.075	kW	Standby mode	P _{SB}	0.008	kW
			_				1
Other items							
				For air-to-air air	conditioner:	4.500	3,,
Capacity control		variable]	air flow-rate,outo	door measured	4,500	m ³ /h
			-				•
Sound power level,	1	71.0	dB				
outdoor	L_{WA}	71.0	Jub .				
If engine driven:			mg/kWh				
Emissions of nitrogen	NOx ***	-	fuel input				
oxides			GCV				
			-				
GWP of the		675	kgCO₂eq.				
refrigerant			(100years)				
•	Mitsubishi heavy indu						
** If Cdc is not determined by mea	asurement then the de	efault degra	adation coeff	icient air condition	ers shall be 0,25.		
*** from 26 September 2018							
Where information relates to multi	-spilt air conditioners	the test re	sult and perf	ormance data be o	obtained on the basis of the perform	nance	
of the outdoor unit, with a combina	ation of indoor unit(s)	recommer	nded by the n	nanufacturer or im	porter.		

Information to identify the model	(s) to which the inform	ation relate	s · F	DC125VNA-W	FDUM125VH		
Outdoor side heat exchanger of				20120117117	T BOWN 2011		
Indoor side heat exchanger of he		air					
		air		No			
Indication if the heater is equippe		ry neater.		NO			
if applicable : electric mo				- H			
Parameters shall be declared for	r the average heating s	season , pa	rameters to	r the warmer and colder r	neating seasons are optional.		
Item ::	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	Prated,h	14.0	kW		ng energy efficiency ηs,h	162.1	%
Declared heating capacity for pa	rt load at indoor tempe	rature 20°0		Declared coefficient of	performance or gas utilization	efficiency /	
and outdoor temperature Tj				auxiliary energy factor	for part load at given outdoor t	emperature	es Tj
T _j =-7°C	Pdh	8.7	kW	T _j =-7°C	COPd or	300.0	%
T _j =+2°C	Pdh	5.3	kW	T _j =+2°C	GUEh,bin / AEFh,bin COPd or	399.0	%
T _j =+7°C	Pdh	3.4	kW	T _j =+7°C	GUEh,bin / AEFh,bin COPd or GUEh,bin / AEFh,bin	515.0	%
T _j =+12°C	Pdh	2.7	kW	T _j =+12°C	COPd or GUEh.bin / AEFh.bin	615.0	%
T _{biv} =bivalent temperature	Pdh	9.8	kW	T _{biv} =bivalent temperature	COPd or GUEh,bin / AEFh,bin	270.0	%
T _{OL} =operation limit	Pdh	7.4	kW	T _{OL} =operation limit	COPd or GUEh,bin / AEFh,bin	210.0	%
For air-to-water heat pumps :	Pdh	_	kW	For air-to-water heat		_	%
T _j =-15°C				pumps:T _j =-15°C	GUEh,bin / AEFh,bin		/*
(if T _{OL} <-20°C)				(if T _{OL} <-20°C)			
Bivalent temperature	T_biv	-10.0]℃	For water-to-air heat pumps:Operation lim	it		°C
Degradation			1	T _{ol} temperature			
coefficient	C_{dh}	0.25	-				
heat pumps**							
Power consumpiton in modes ot	her than 'active mode'			Supplementary heater	elbu	_	kW
Off mode	P _{OFF}	0.008	kW	Dack-up fleating cape	acity		J
Thermostat-off mode	P_{TO}	0.090	kW	Type of energy input	P _{SB}	0.008	kW
Crankcase heater mode	P _{CK}	0.008	kW	Standby mode	' SB	0.000	NVV
Other items							
		d a la la	1	For air-to-air heat pur	•	4,380	m³/h
Capacity control		variable	l	air flow-rate,outdoor	measured		l
Sound power level,			1	For water-/brine-to-ai	ir heat pumps :		1
outdoor measured	L_WA	71.0	dB	Rated brine or water	fiow-rate,	_	m³/h
			1	outdoor side heat exc	changer		
Emissions of nitrogen	NOx		mg/kWh				
oxides(if applicable)	***	_	fuel input GCV				
			JGCV				
GWP of the		675	kgCO₂eq.				
refrigerant			(100years)				
Contact details	Miteubiehi hosas is da	etrice the	nal evete	LTD			
** If Cdh is not determined by me	Mitsubishi heavy indu				all be 0.25		
·	Jasaromont uien uie U	o.aan u c gi			50 0,£0.		
*** from 26 September 2018	10::04 -: · · · · · · · · · · · · · · · · · ·	41			al and the first of the state o		
Where information relates to mu						ance	
of the outdoor unit, with a combine	nation of indoor unit(s)	recommen	ided by the r	manufacturer or importer.			

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FDUM125VSAWVH

Model(s): FDC125VSA-W	/ FDUM125	VH					
Outdoor side heat exchanger of air	conditioner :	air					
Indoor side heat exchanger of air c	onditioner :	air					
Type: vapour compression							
if applicable : electric moto	or						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space	cooling energy		
	Prated,c	12.5	kW	efficiency ηs,c		219.8	%
Declared cooling capacity for part l	oad at given outdoor	temperati	ures	Declared energy	y efficiency ratio or gas utilization	efficiency /	
Tj and indoor 27°C/19°C(dry/wet bu	ılb)			auxiliary energy	factor for part load at given outde	oor temperatures	Tj
Tj=+35°C	Pdc	12.5	kW	Tj=+35°C	EERd or		1
			_		GUEc,bin / AEFc,bin	287.0	%
Tj=+30°C	Pdc	9.2	kW	Tj=+30°C	EERd or		1,,
			-		GUEc,bin / AEFc,bin	425.0	%
Tj=+25°C	Pdc	5.9	kW	Tj=+25°C	EERd or	705.0	0/
			-		GUEc,bin / AEFc,bin	705.0	%
Tj=+20°C	Pdc	3.1	kW	Tj=+20°C	EERd or	920.0	%
			_		GUEc,bin / AEFc,bin	320.0	
Degradation						·	
coefficient for	Cdc	0.25	-				
air conditioners**							
Power consumpiton in other than 'a			1				1
Off mode	P _{OFF}	0.008	kW	Crankcase heat		0.008	kW
Thermostat-off mode	P _{TO}	0.075	kW	Standby mode	P_SB	0.008	kW
Other items							
			7	For air-to-air air	conditioner:	4,500	m ³ /h
Capacity control		variable]	air flow-rate,out	door measured	.,000]
Sound power level,		74.0	dD				
outdoor	L_{WA}	71.0	dB				
			_				
If engine driven:			mg/kWh				
Emissions of nitrogen	NOx ***	_	fuel input				
oxides			GCV				
			_				
GWP of the		675	kgCO₂eq.				
refrigerant			(100years)				
Contact details	litauhiahi haara is de	otrios the	mal avatam =	II III			
Contact details M ** If Cdc is not determined by meas	litsubishi heavy indu surement then the de				ers shall be 0,25.		
*** from 26 September 2018					, 		
Where information relates to multi-	spilt air conditioners	the test re	sult and nerf	formance data he c	obtained on the basis of the perfo	ormance	
of the outdoor unit, with a combinat						, manot	
S. SIO OULGOOF GIRE, WILL & COMBINA	or muoor unit(5)	. 5551111161	.aca by tile i	UI UI IIII	po		

Information to identify the model	(s) to which the inform	ation relate	s · F	DC125VSA-W	FDUM125VH		
Outdoor side heat exchanger of				20120107111	1 DOM120VII		
Indoor side heat exchanger of he		air					
		air		No			
Indication if the heater is equipped		ry neater.		INO			
if applicable : electric mo							
Parameters shall be declared fo	r the average heating s	season , pa	rameters for	the warmer and colder r	neating seasons are optional.		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	Prated,h	14.0	kW	Seasonal space heatin	ng energy efficiency ηs,h	162.1	%
Declared heating capacity for pa	irt load at indoor tempe	erature 20°0		Declared coefficient of	performance or gas utilization	efficiency /	
and outdoor temperature Tj				auxiliary energy factor	for part load at given outdoor t	emperature	es Tj
T _j =-7°C	Pdh	8.7	kW	T _j =-7°C	COPd or	300.0	%
T _j =+2°C	Pdh	5.3	kW	T _j =+2°C	GUEh,bin / AEFh,bin COPd or	399.0	%
T _j =+7°C	Pdh	3.4	kW	T _j =+7°C	GUEh,bin / AEFh,bin COPd or	515.0	%
T _j =+12°C	Pdh	2.7	kW	T _j =+12°C	GUEh,bin / AEFh,bin COPd or GUEh,bin / AEFh,bin	615.0	%
T _{biv} =bivalent temperature	Pdh	9.8	kW	T _{biv} =bivalent temperature	COPd or GUEh,bin / AEFh,bin	270.0	%
T _{OL} =operation limit	Pdh	7.4	kW	T _{OL} =operation limit	COPd or GUEh,bin / AEFh,bin	210.0	%
For air-to-water heat pumps :	Pdh	_	kW	For air-to-water heat		_	%
T _j =-15°C				pumps:T _j =-15°C	GUEh,bin / AEFh,bin		,,,
(if T _{OL} <-20°C)				(if T _{OL} <-20°C)			
Bivalent temperature	T_biv	-10.0]℃	For water-to-air heat pumps:Operation lim			°C
Degradation				T _{ol} temperature			
coefficient	C_{dh}	0.25	-				
heat pumps**							
Power consumpiton in modes ot	her than 'active mode'			Supplementary heated	elbu	_	kW
Off mode	P _{OFF}	0.008	kW	buok up neuting oup	aoity		ı
Thermostat-off mode	P_{TO}	0.090	kW	Type of energy input	P _{SB}	0.008	kW
Crankcase heater mode	P _{CK}	0.008	kW	Standby mode	. эв	0.000]
Other items							_
			1	For air-to-air heat pur	mps:	4,380	m ³ /h
Capacity control		variable		air flow-rate,outdoor	measured		
Sound power level,			1	For water-/brine-to-ai	ir heat numns :		1
outdoor measured	L_{WA}	71.0	dB	Rated brine or water		-	m³/h
				outdoor side heat exc	changer		
Emissions of nitrogen	NOx		mg/kWh				
oxides(if applicable)	***	_	fuel input				
			GCV				
GWP of the		675	kgCO₂eq.				
refrigerant			(100years)				
Contact details	Mitaubiahi baasa 1	otrico H	nal auct	LTD			
Contact details ** If Cdh is not determined by me	Mitsubishi heavy indu				nall he 0.25		
	ocouroment uich uie u	craunt utgi		Sin an conditioners SII	50 0,20.		
*** from 26 September 2018	M:: 14 - 1	Ale e de la			-d4bb		
Where information relates to mu						irice	
of the outdoor unit, with a combi	nation of indoor unit(s)	recommen	aed by the r	nanutacturer or importer.			

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FDUM140VNAWVH

Model(s): FDC140VNA-W /	FDUM140	VH					
Outdoor side heat exchanger of air conditio	ner:	air					
Indoor side heat exchanger of air conditione	er:	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space cool	ling energy		
	Prated,c	13.6	kW	efficiency ηs,c		208.8	%
			<u> </u>				
Declared cooling capacity for part load at gi	ven outdoo	r temperatu	ıres	Declared energy effic	ciency ratio or gas utilization efficier	ncy /	
Tj and indoor 27°C/19°C(dry/wet bulb)				auxiliary energy facto	or for part load at given outdoor tem	peratures	Tj
T:- 125°C	Pdc	13.6	kw		Γ		1
Tj=+35°C	Puc	13.6	J ^{KVV}	Tj=+35°C	EERd or	265.0	%
Tj=+30°C	Pdc	10.0	kW	T: .00°0	GUEc,bin / AEFc,bin		
17]=130 0	1 40	10.0],,,,	Tj=+30°C	EERd or	390.0	%
Tj=+25°C	Pdc	6.4	kW	Tj=+25°C	GUEc,bin / AEFc,bin		
,]	1]-+25 C	EERd or GUEc,bin / AEFc,bin	680.0	%
Tj=+20°C	Pdc	3.2	kW	Tj=+20°C	EERd or		
			'	1,5-1200	GUEc,bin / AEFc,bin	900.0	%
Degradation			1		COEO,BIII / NEI O,BIII		1
coefficient for	Cdc	0.25	_				
air conditioners**	000						
			'				
Power consumpiton in other than 'active mo	ode'						
			_		_		_
Off mode	P_{OFF}	0.008	kW	Crankcase heater mo	ode P _{CK}	0.008	kW
Thermostat-off mode	P_{TO}	0.090	kW	Standby mode	P_{SB}	0.008	kW
Other items					Г		,
			,	For air-to-air air cond	litioner:	4,500	m³/h
Capacity control		variable]	air flow-rate,outdoor	measured		
			, l				
Sound power level,	L_WA	72.0	dB				
outdoor			J				
			1 ""				
If engine driven:	NOx	_	mg/kWh				
Emissions of nitrogen	***		fuel input				
oxides]GCV				
GWP of the			kgCO₂eq.				
refrigerant		675	(100years)				
3		ļ	'				
Contact details Mitsubishi	heavy indu	stries therr	nal systems,l	_TD			
** If Cdc is not determined by measurement					shall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-spilt air o	onditioners	the test re	sult and perfo	ormance data be obtain	ned on the basis of the performance	е	
of the outdoor unit, with a combination of in	door unit(s)	recommen	ded by the m	anufacturer or importe	er.		

Information to identify the model	(s) to which the inform	ation relate	s · F	DC140VNA-W	FDUM140VH		
Outdoor side heat exchanger of				201401111111	1 DOM 140 VII		
Indoor side heat exchanger of he		air					
		air		No			
Indication if the heater is equippe		ry neater.		INO			
if applicable : electric mo							
Parameters shall be declared for	r the average heating s	season , pa	rameters to	the warmer and colder r	neating seasons are optional.		
Item ::	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	Prated,h	15.5	kW	Seasonal space heatin	ng energy efficiency ηs,h	157.4	%
Declared heating capacity for pa	rt load at indoor tempe	rature 20°0		Declared coefficient of	performance or gas utilization	efficiency /	1
and outdoor temperature Tj				auxiliary energy factor	for part load at given outdoor t	emperature	es Tj
T _j =-7°C	Pdh	9.3	kW	T _j =-7°C	COPd or	295.0	%
T _j =+2°C	Pdh	5.6	kW	T _j =+2°C	GUEh,bin / AEFh,bin COPd or	385.0	%
T _j =+7°C	Pdh	3.6	kW	T _j =+7°C	GUEh,bin / AEFh,bin COPd or GUEh,bin / AEFh,bin	500.0	%
T _j =+12°C	Pdh	2.7	kW	T _j =+12°C	COPd or GUEh.bin / AEFh.bin	596.0	%
T _{biv} =bivalent temperature	Pdh	10.5	kW	T _{biv} =bivalent temperature	COPd or GUEh,bin / AEFh,bin	270.0	%
T _{OL} =operation limit	Pdh	7.9	kW	T _{OL} =operation limit	COPd or GUEh,bin / AEFh,bin	220.0	%
For air-to-water heat pumps :	Pdh	_	kW	For air-to-water heat		_	%
T _j =-15°C				pumps:T _j =-15°C	GUEh,bin / AEFh,bin]″
(if T _{OL} <-20°C)				(if T _{OL} <-20°C)			
Bivalent temperature	T_biv	-10.0]℃	For water-to-air heat pumps:Operation lim		_	င
Degradation]	T _{ol} temperature			
coefficient	C_{dh}	0.25	-				-
heat pumps**							
Power consumpiton in modes ot	her than 'active mode'			Supplementary heated back-up heating capa	eibu	_	kW
Off mode	P _{OFF}	0.008	kW	Dack-up fleating cape	acity		J
Thermostat-off mode	P_{TO}	0.100	kW	Type of energy input	P _{SB}	0.008	kW
Crankcase heater mode	P _{CK}	0.008	kW	Standby mode	' SB	0.000	I NVV
Other items							1
Capacity control		variable]	For air-to-air heat pur air flow-rate,outdoor	•	4,380	m ³ /h
Sound power level,			1	For water-/brine-to-ai	ir heat pumps :		1
outdoor measured	L_{WA}	73.0	dB	Rated brine or water		-	m³/h
		1	1	outdoor side heat exc	changer		
Emissions of nitrogen	NOx		mg/kWh				
oxides(if applicable)	***	_	fuel input GCV				
			1001				
GWP of the		675	kgCO ₂ eq.				
refrigerant			(100years)				
Contact details	Mitsubishi heavy indu	stripe there	nal systems	I TD			
** If Cdh is not determined by me					nall be 0,25.		
*** from 26 September 2018		3.			, -		
· ·	lti enilt air condition	the test re-	oult and no-	ormance data he obtains	ad on the basis of the performs	nce	
Where information relates to mu						ince	
of the outdoor unit, with a combine	าเลเเอท or indoor unit(s)	recommen	uea by the r	nanutacturer or importer.			

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FDUM140VSAWVH

Model(s): FDC140VSA-W	/ FDUM140	VH					
Outdoor side heat exchanger of a	ir conditioner :	air					
Indoor side heat exchanger of air	conditioner :	air					
Type: vapour compression							
if applicable : electric mot	tor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space	e cooling energy		
	Prated,c	13.6	kW	efficiency ηs,c		208.8	%
Declared cooling capacity for part	load at given outdoor	r temperati	ures	Declared energy	y efficiency ratio or gas utilization	efficiency /	
Tj and indoor 27°C/19°C(dry/wet b	pulb)			auxiliary energy	factor for part load at given outd	oor temperatures	Tj
Tj=+35°C	Pdc	13.6	kW	Tj=+35°C	EERd or		1
			_		GUEc,bin / AEFc,bin	265.0	%
Tj=+30°C	Pdc	10.0	kW	Tj=+30°C	EERd or		1
			_		GUEc,bin / AEFc,bin	390.0	%
Tj=+25°C	Pdc	6.4	kW	Tj=+25°C	EERd or	600.0	0,
			-		GUEc,bin / AEFc,bin	680.0	%
Tj=+20°C	Pdc	3.2	kW	Tj=+20°C	EERd or	900.0	%
			_		GUEc,bin / AEFc,bin	900.0	J ⁷⁰
Degradation						<u> </u>	-
coefficient for	Cdc	0.25	-				
air conditioners**							
Power consumpiton in other than Off mode	'active mode'	0.008	kw	Crankcase heat	ter mode P _{CK}	0.008	lkW
Thermostat-off mode	P _{TO}	0.090	kW	Standby mode	P_{SB}	0.008	kW
Other items							1
Capacity control		variable]	For air-to-air air air flow-rate,out		4,500	m ³ /h
Sound power level,		72.0	dD.				
outdoor	L_{WA}	72.0	dB				
If engine driven:			mg/kWh				
Emissions of nitrogen	NOx ***	_	fuel input				
oxides			GCV				
			-				
GWP of the		675	kgCO ₂ eq.				
refrigerant			(100years)				
	Mitsubishi heavy indu						
** If Cdc is not determined by mea	asurement then the de	etault degr	adation coef	ricient air condition	ners shall be 0,25.		
*** from 26 September 2018							
Where information relates to mult						ormance	
of the outdoor unit, with a combination	ation of indoor unit(s)	recommer	nded by the r	nanufacturer or im	porter.		

Information to identify the model(s) to w	hich the inform	ation relate	es: F	DC140VSA-W /	FDUM140VH		
Outdoor side heat exchanger of heat pu		air					
Indoor side heat exchanger of heat pur		air					
Indication if the heater is equipped with				No			
if applicable : electric motor	а сарристопа	,					
Parameters shall be declared for the av	erage heating	season na	rameters for	the warmer and colder I	heating seasons are ontional		
					-	Value	Llmit
Item Rated heating capacity	Symbol	Value	Unit	Item	Symbol g energy efficiency ηs,h	Value	Unit
Trace Treating capacity	Prated,h	15.5	kW	ocasonal space neath	g chargy amoundy 15,11	157.4	%
Declared heating capacity for part load	at indoor tempe	erature 20°	c	Declared coefficient of	performance or gas utilization	efficiency /	
and outdoor temperature Tj				auxiliary energy factor	for part load at given outdoor t	emperature	es Tj
T _j =-7°C	Pdh	9.3	kW	T _j =-7°C	COPd or GUEh,bin / AEFh,bin	295.0	%
T _j =+2°C	Pdh	5.6	kW	T _j =+2°C	COPd or GUEh,bin / AEFh,bin	385.0	%
T _j =+7°C	Pdh	3.6	kW	T _j =+7°C	COPd or GUEh,bin / AEFh,bin	500.0	%
T _j =+12°C	Pdh	2.7	kW	T _j =+12°C	COPd or	596.0	%
T _{biv} =bivalent temperature	Pdh	10.5	kW	T _{biv} =bivalent temperature	GUEh,bin / AEFh,bin COPd or GUEh,bin / AEFh,bin	270.0	%
T _{OL} =operation limit	Pdh	7.9	kW	T _{OL} =operation limit	COPd or	220.0	%
For air-to-water heat pumps : T _i =-15°C	Pdh	_	kW	For air-to-water heat	GUEh,bin / AEFh,bin COPd or GUEh,bin / AEFh,bin	_	%
(if T _{OL} <-20°C)				pumps:T _j =-15°C (if T _{OL} <-20°C)	GUETI,DIII / AEFII,DIII		ļ
Bivalent temperature	T_biv	-10.0]℃	For water-to-air heat			°C
Degradation			1	pumps:Operation lim T _{ol} temperature	IIL	-	C
coefficient	C_{dh}	0.25	-	5			ı
heat pumps**							
Power consumpiton in modes other than	n 'active mode'			Supplementary heate	er		I-VA/
·			_	back-up heating capa	eibu		kW
Off mode	P _{OFF}	0.008	kW				1
Thermostat-off mode	P _{TO}	0.100	kW	Type of energy input	P _{SB}	0.008	kW
Crankcase heater mode	P _{CK}	0.008	kW	Standby mode			J
Other items							
			_	For air-to-air heat pu	mps:	4,380	m³/h
Capacity control		variable]	air flow-rate,outdoor	measured	4,000]''' /''
Sound power level,			, l	For water-/brine-to-a	ir hoot numno :		1
outdoor measured	L_{WA}	73.0	dB	Rated brine or water		_	m ³ /h
			-	outdoor side heat ex			
Emissions of nitrogen	NOv		mg/kWh		-		
oxides(if applicable)	NOx ***	-	fuel input				
			GCV				
			1				
GWP of the		675	kgCO ₂ eq. (100years)				
refrigerant			(100years)				
Contact details Mitsub	ishi heavy indu	ustries ther	mal systems.	LTD			
** If Cdh is not determined by measurer					nall be 0,25.		
*** from 26 September 2018		,					
Where information relates to multi-spilt	air conditioners	sthe test re	sult and nerf	ormance data he obtaine	ed on the basis of the performa	ince	
of the outdoor unit, with a combination of							
or the outdoor unit, with a combination (, maoor ami(S	, reconnine	idea by tile li	namuraoturer or importer			

FDUM125VNAWPVH

Model(s): FDC125VNA-W	/ FDUM60VH	l (2 units)					
Outdoor side heat exchanger of air	conditioner :	air					
Indoor side heat exchanger of air or	onditioner :	air					
Type: vapour compression							
if applicable : electric moto	r						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space	cooling energy		
	Prated,c	12.5	kW	efficiency ηs,c		277.3	%
Declared cooling capacity for part lo	oad at given outdoor t	temperatu	ıres	Declared energy	efficiency ratio or gas utilization eff	iciency /	
Tj and indoor 27°C/19°C(dry/wet bu	lb)			auxiliary energy	factor for part load at given outdoor	temperatures	Tj
	F		7				,
Tj=+35°C	Pdc	12.5	kW	Tj=+35°C	EERd or	276.0	%
	Г		٦		GUEc,bin / AEFc,bin		
Tj=+30°C	Pdc	9.2	kW	Tj=+30°C	EERd or	480.0	%
	Г		1		GUEc,bin / AEFc,bin		
Tj=+25°C	Pdc	5.9	kW	Tj=+25°C	EERd or	810.0	%
T: .0000	<u>.</u> . г		1		GUEc,bin / AEFc,bin		-
Tj=+20°C	Pdc	3.6	kW	Tj=+20°C	EERd or	1730.0	%
	Г		1		GUEc,bin / AEFc,bin]
Degradation							
coefficient for	Cdc	0.25	-				
air conditioners**	L		J				
Power consumpiton in other than 'a	ctive mode'						
O#	ь Г	0.000	7,,,,,	Considerate hands	d- D	0.005	1,,,,,
Off mode Thermostat-off mode	P _{OFF}	0.008	kW	Crankcase heate		0.005	kW
memostat-on mode	P _{TO}	0.000	kW	Standby mode	P_SB	0.008	J _V vv
Other items							
outer terms				For air-to-air air o	conditioner:		1.
Capacity control	Γ	variable]	air flow-rate,outd		4,500	m³/h
	L		_			L	.
Sound power level,	. []				
outdoor	L _{WA}	71.0	dB				
	_		_				
If engine driven:	Γ		mg/kWh				
Emissions of nitrogen	NOx ***	_	fuel input				
oxides			GCV				
	_		_				
GWP of the	Γ	675	kgCO₂eq.				
refrigerant		0/3	(100years)				
	·						
Contact details M	itsubishi heavy indus	tries therr	mal systems,	LTD			
** If Cdc is not determined by meas	surement then the def	ault degra	adation coeff	icient air conditione	ers shall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-s	spilt air conditioners,tl	he test re	sult and perf	ormance data be o	btained on the basis of the perform	ance	
of the outdoor unit, with a combinat	ion of indoor unit(s) re	ecommen	ided by the n	nanufacturer or imp	porter.		

Information to identify the model(s) to wh	ich the inform	nation relate	s: F	DC125VNA-W	FDUM60VH (2 units)		
Outdoor side heat exchanger of heat pun	np:	air					
Indoor side heat exchanger of heat pump):	air					
Indication if the heater is equipped with a	supplementa	ary heater :		No			
if applicable : electric motor							
Parameters shall be declared for the ave	rage heating	season , pa	rameters for	the warmer and colder	heating seasons are optional.		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	•			Seasonal space heating	ng energy efficiency ηs,h		
	Prated,h	14.0	kW			188.3	%
Declared heating capacity for part load a	t indoor temp	erature 20°0	С	Declared coefficient of	performance or gas utilization	efficiency /	
and outdoor temperature Tj				auxiliary energy factor	for part load at given outdoor	temperature	es Tj
T _j =-7°C	Pdh	8.7	kW	T _j =-7°C	COPd or GUEh,bin / AEFh,bin	310.0	%
T _j =+2°C	Pdh	5.3	kW	T _j =+2°C	COPd or GUEh,bin / AEFh,bin	470.0	%
T _j =+7°C	Pdh	3.4	kW	T _j =+7°C	COPd or	596.0	%
T _j =+12°C	Pdh	3.0	kW	T _j =+12°C	GUEh,bin / AEFh,bin COPd or	855.0	%
T _{biv} =bivalent temperature	Pdh	9.8	kW	T _{biv} =bivalent	GUEh,bin / AEFh,bin COPd or	250.0	%
T _{OL} =operation limit	Pdh	7.4	kW	temperature T _{OL} =operation limit	GUEh,bin / AEFh,bin COPd or	210.0	%
For air-to-water heat pumps :	Pdh	_	kW	For air-to-water heat	GUEh,bin / AEFh,bin COPd or		%
T_j =-15°C (if T_{OL} <-20°C)				pumps: T_j =-15°C (if T_{OL} <-20°C)	GUEh,bin / AEFh,bin		/*
Bivalent temperature	T_biv	-10.0]℃	For water-to-air heat			l _° o
Degradation			1 l	pumps:Operation lim T _{ol} temperature	lit	-	°C
coefficient	C_{dh}	0.25	_	1 of tomporator			l
heat pumps**	-uii						
			4				
Power consumpiton in modes other than	'active mode	'		Supplementary heating cap	elbu	_	kW
Off mode	P _{OFF}	0.008	kW	back-up fleating cap	acity		l
Thermostat-off mode	P _{TO}	0.000	kW	Type of energy input	P _{SB}	0.008	kW
Crankcase heater mode	P _{CK}	0.005	kW	Standby mode	FSB	0.008	KVV
Other items				For air-to-air heat pu	imne:		1
Capacity control		variable]	air flow-rate,outdoor	•	4,380	m ³ /h
Sound power level,			1	For water-/brine-to-a	ir heat numns :		1
outdoor measured	L_{WA}	71.0	dB	Rated brine or water		_	m³/h
			1	outdoor side heat ex			
Emissions of nitrogen	NOv		mg/kWh				
oxides(if applicable)	NOx ***	-	fuel input				
			GCV				
GWP of the		675	kgCO₂eq.				
refrigerant			(100years)				
Contact details Mitsubis	shi heavy ind	ustrias therr	nal eveteme	I TD			
** If Cdh is not determined by measurem					nall be 0,25.		
*** from 26 September 2018		3					
	r conditioner	s the test re-	sult and nerf	ormance data he obtoin	ad on the basis of the performs	ance	
Where information relates to multi-spilt a						aille	
of the outdoor unit, with a combination of	ınaoor unit(s) recommen	iuea by the n	nanuracturer or importer			

FDUM125VSAWPVH

Model(s): FDC125VSA-W	/ FDUM60V	'H (2 units)	١				
Outdoor side heat exchanger of air	conditioner :	air					
Indoor side heat exchanger of air c	onditioner :	air					
Type: vapour compression							
if applicable : electric motor	or						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space	cooling energy		
	Prated,c	12.5	kW	efficiency ηs,c		277.3	%
Declared cooling capacity for part I	oad at given outdoor	r temperati	ures	Declared energy	efficiency ratio or gas utilization e	efficiency /	
Tj and indoor 27°C/19°C(dry/wet bu	ılb)			auxiliary energy	factor for part load at given outdoo	or temperatures	Tj
							_
Tj=+35°C	Pdc	12.5	kW	Tj=+35°C	EERd or	276.0	%
			_		GUEc,bin / AEFc,bin	270.0	J ⁷⁰
Tj=+30°C	Pdc	9.2	kW	Tj=+30°C	EERd or	480.0	%
			_		GUEc,bin / AEFc,bin	400.0	J ⁷⁰
Tj=+25°C	Pdc	5.9	kW	Tj=+25°C	EERd or	810.0	%
					GUEc,bin / AEFc,bin	010.0]/0
Tj=+20°C	Pdc	3.6	kW	Tj=+20°C	EERd or	1730.0	%
					GUEc,bin / AEFc,bin	1730.0	/0
Degradation]				_
coefficient for	Cdc	0.25	-				
air conditioners**							
Power consumpiton in other than 'a	active mode'						
							_
Off mode	P_{OFF}	0.008	kW	Crankcase heat	er mode P _{CK}	0.005	kW
Thermostat-off mode	P _{TO}	0.000	kW	Standby mode	P_{SB}	0.008	kW
Other items							,
			,	For air-to-air air	conditioner:	4,500	m³/h
Capacity control		variable	_	air flow-rate,out	door measured	,]
			,				
Sound power level,	L_WA	71.0	dB				
outdoor			_				
			,				
If engine driven:	NOx		mg/kWh				
Emissions of nitrogen	***	_	fuel input				
oxides			GCV				
			,				
GWP of the		675	kgCO ₂ eq. (100years)				
refrigerant			(Tooyears)				
	litsubishi heavy indu						
** If Cdc is not determined by meas	surement then the de	etault degr	adation coeff	icient air condition	ers shall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-	spilt air conditioners	the test re	sult and perf	ormance data be o	obtained on the basis of the perform	mance	
of the outdoor unit, with a combina	tion of indoor unit(s)	recommer	nded by the n	nanufacturer or im	porter.		

Information to identify the model(s) to	which the inform	ation relate	s: F	DC125VSA-W	FDUM60VH (2 units)		
Outdoor side heat exchanger of heat		air			· · · · · · · · · · · · · · · · · · ·		
Indoor side heat exchanger of heat p		air					
Indication if the heater is equipped w				No			
if applicable : electric motor		,					
Parameters shall be declared for the	average heating	season , pa	rameters for	the warmer and colder I	heating seasons are optional.		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	Cyllibol	Value	OTIIC		ng energy efficiency ηs,h	Value	OTIN
3,	Prated,h	14.0	kW		3 3,	188.3	%
Declared heating capacity for part loa	ad at indoor tempe	erature 20°	С	Declared coefficient of	f performance or gas utilization	efficiency /	
and outdoor temperature Tj				auxiliary energy factor	for part load at given outdoor	temperature	es Tj
T _i =-7°C	Pdh	8.7	kW	T _i =-7°C	COPd or		1
,,			1	,	GUEh,bin / AEFh,bin	310.0	%
T _j =+2°C	Pdh	5.3	kW	T _j =+2°C	COPd or	470.0	%
			,		GUEh,bin / AEFh,bin	470.0	70
T _j =+7°C	Pdh	3.4	kW	T _j =+7°C	COPd or	596.0	%
T _i =+12°C	Pdh	3.0	kW	T _i =+12°C	GUEh,bin / AEFh,bin		
1,-+12 0	Full	3.0	Jrvv	1j-+12 C	COPd or GUEh,bin / AEFh,bin	855.0	%
T _{biv} =bivalent temperature	Pdh	9.8	kW	T _{biv} =bivalent	COPd or		0,
			_	temperature	GUEh,bin / AEFh,bin	250.0	%
T _{OL} =operation limit	Pdh	7.4	kW	T _{OL} =operation limit	COPd or	210.0	%
			1	.	GUEh,bin / AEFh,bin	-	
For air-to-water heat pumps : T _i =-15°C	Pdh		kW	For air-to-water heat pumps:T _i =-15°C	COPd or GUEh,bin / AEFh,bin	-	%
(if T _{OI} <-20°C)				(if T _{OL} <-20°C)	GOETI, DITT ALT TI, DITT		I
02 ,				(GE /			
Bivalent temperature	T_biv	-10.0	°C	For water-to-air heat	t		
			,	pumps:Operation lim	nit	-	°C
Degradation	6	0.25		T _{ol} temperature			l
coefficient heat pumps**	C_{dh}	0.25	-				
near pampo			1				
Power consumpiton in modes other t	han 'active mode'			Supplementary heate	eibu	_	kW
0#	В	0.000	1,,,,,	back-up heating capa	acity		
Off mode Thermostat-off mode	P _{OFF} P _{TO}	0.008	kW kW	Type of energy input	•		1
Crankcase heater mode	P _{CK}	0.005	kW	Standby mode	P _{SB}	0.008	kW
				,			,
Other items							1
			,	For air-to-air heat pu		4,380	m ³ /h
Capacity control		variable]	air flow-rate,outdoor	measured		l
Sound power level,			1	For water-/brine-to-a	ir heat pumps :		1
outdoor measured	L_{WA}	71.0	dB	Rated brine or water		-	m³/h
			,	outdoor side heat ex	changer		
Emissions of nitrogen	NOx		mg/kWh				
oxides(if applicable)	***	-	fuel input				
			GCV				
GWP of the		675	kgCO₂eq.				
refrigerant			(100years)				
Contact details	udajahi harawa in 1	atrias #	mal auct	I TD			
Contact details Mits ** If Cdh is not determined by measu	subishi heavy indu				nall he 0.25		
	romont alon tile u	ciaun uegi	additori coell	IOIOITE AII CONTUIUONEIS SI	Idii 50 0,20.		
*** from 26 September 2018	· · · · · · · · · · · · · · · · · · ·						
Where information relates to multi-sp						ance	
of the outdoor unit, with a combinatio	n of indoor unit(s)	recommer	nded by the n	nanufacturer or importer			
İ							

FDUM140VNAWPVH

Model(s): FDC140VNA-W /	FDUM71V	'H (2 units)					
Outdoor side heat exchanger of air condit	ioner :	air					
Indoor side heat exchanger of air condition	ner:	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	0,0.	7 4.45		Seasonal space co	·	14.45	
rtated cooming capacity	Prated,c	13.6	kW	efficiency ηs,c	omig chargy	288.0	%
				chiciency 1 ₁₉ ,c			
Declared cooling capacity for part load at	given outdoor	r temperatu	Ires	Declared energy of	ficiency ratio or gas utilization efficie	ncv /	
Tj and indoor 27°C/19°C(dry/wet bulb)	given outdoor	rtemperate	1103		ctor for part load at given outdoor ten	-	Ti
Tj and mood 27 0/10 O(dry/wet buib)				duxillary chergy lac	tor for part load at given outdoor ten	riperatures	''
Tj=+35°C	Pdc	13.6	kW	Tj=+35°C	EERd or		
			1	1,7 100 0	GUEc,bin / AEFc,bin	285.0	%
Tj=+30°C	Pdc	10.0	kW	Tj=+30°C	EERd or		
			·	1)=130 C		500.0	%
Tj=+25°C	Pdc	6.4	kW	Tj=+25°C	GUEc,bin / AEFc,bin EERd or		
,			1	1j=+25 C	GUEc,bin / AEFc,bin	850.0	%
Tj=+20°C	Pdc	3.3	kW	T:- 120°C	EERd or		
,		0.0	1	Tj=+20°C		1680.0	%
Degradation			1 l		GUEc,bin / AEFc,bin		ı
Degradation	Cdc	0.25					
coefficient for	Cuc						
air conditioners**			·				
Decree of the state							
Power consumpiton in other than 'active r	node.						
Off mode	P _{OFF}	0.008	kW	Crankcase heater i	mode P _{CK}	0.005	kW
Thermostat-off mode	P _{TO}	0.000	kW	Standby mode	P _{SB}	0.003	kW
Thermostat-on mode	1 10	0.000]^**	Standby mode	i SB	0.000	Ivvv
01. 11							
Other items				L			1
Capacity control		variable	1	For air-to-air air coi		4,500	m³/h
Capacity Control		variable	J	air flow-rate,outdoo	or measured		
			1 l				
Sound power level,	L_WA	72.0	dB				
outdoor			J				
			,				
If engine driven:	NOx	_	mg/kWh				
Emissions of nitrogen	***	_	fuel input				
oxides			GCV				
			1				
GWP of the		675	kgCO ₂ eq. (100years)				
refrigerant](100youio)				
·	shi heavy indu				a ball ba 0.05		
** If Cdc is not determined by measureme	ent then the de	eraurt degra	auation coeffi	cient air conditioners	s snail de 0,25.		
*** from 26 September 2018							
Where information relates to multi-spilt air	r conditioners	the test res	sult and perfo	ormance data be obta	ained on the basis of the performanc	ce	
of the outdoor unit, with a combination of	indoor unit(s)	recommen	ded by the m	nanufacturer or impor	rter.		

Information to identify the model(s) to whi	ich the inform	nation relate	76 · E	DC140VNA-W	FDUM71VH (2 units)			
Outdoor side heat sushanara 6 heat sums								
Outdoor side heat exchanger of heat pump: air								
Indoor side heat exchanger of heat pump : air								
Indication if the heater is equipped with a supplementary heater : No								
if applicable : electric motor								
Parameters shall be declared for the average heating season , parameters for the warmer and colder heating seasons are optional.								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heating capacity	Prated,h	15.5	kW	Seasonal space heating	ng energy efficiency ηs,h	205.7	%	
Declared heating capacity for part load at indoor temperature 20°C and outdoor temperature Tj			Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj					
T _j =-7°C	Pdh	9.3	kW	T _j =-7°C	COPd or	335.0	%	
T _j =+2°C	Pdh	5.6	kW	T _j =+2°C	GUEh,bin / AEFh,bin COPd or GUEh,bin / AEFh,bin	506.0	%	
T _j =+7°C	Pdh	3.6	kW	T _j =+7°C	COPd or GUEh,bin / AEFh,bin	678.0	%	
T _j =+12°C	Pdh	3.1	kW	T _j =+12°C	COPd or GUEh,bin / AEFh,bin	933.0	%	
T _{biv} =bivalent temperature	Pdh	10.5	kW	T _{biv} =bivalent temperature	COPd or GUEh,bin / AEFh,bin	250.0	%	
T _{OL} =operation limit	Pdh	7.9	kW	T _{OL} =operation limit	COPd or GUEh,bin / AEFh,bin	200.0	%	
For air-to-water heat pumps : T _j =-15°C (if T _{OI} <-20°C)	Pdh	_	kW	For air-to-water heat pumps:T _j =-15°C	t COPd or GUEh,bin / AEFh,bin	_	%	
Bivalent temperature	T_biv	-10.0] ℃	(if T _{OL} <-20°C) For water-to-air heat	t		1	
Degradation	5.0]	pumps:Operation lim T _{ol} temperature		-	°C	
coefficient	C_{dh}	0.25	-				•	
heat pumps**								
Power consumpiton in modes other than 'active mode'				Supplementary heat	elbu	_	kW	
Off mode	P _{OFF}	0.008	kW	back-up heating cap	acity		J	
Thermostat-off mode	P _{TO}	0.000	kW	Type of energy input	t s		1	
Crankcase heater mode	P _{CK}	0.005	kW	Standby mode	P_{SB}	0.008	kW	
Other items								
Capacity control		variable]	For air-to-air heat pu air flow-rate,outdoor		4,380	m³/h	
Sound power level, outdoor measured	L_WA	73.0	dB	For water-/brine-to-a			m³/h	
] ",,"	Rated brine or water outdoor side heat ex]''' '''	
Emissions of nitrogen oxides(if applicable)	NOx ***	_	mg/kWh fuel input GCV					
GWP of the		675	kgCO₂eq.					
refrigerant			(100years)					
Contact details Mitsubishi heavy industries thermal systems,LTD								
** If Cdh is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.								
*** from 26 September 2018								
Where information relates to multi-spilt air conditioners, the test result and performance data be obtained on the basis of the performance								
of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.								

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FDUM140VSAWPVH

Model(s): FDC140VSA-W	/ FDUM71V	'H (2 units))					
Outdoor side heat exchanger of air conditioner : air								
Indoor side heat exchanger of air conditioner : air								
Type: vapour compression								
if applicable : electric mo	tor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated cooling capacity				Seasonal space	cooling energy			
	Prated,c	13.6	kW	efficiency ηs,c		288.0	%	
Declared cooling capacity for part load at given outdoor temperatures			Declared energy efficiency ratio or gas utilization efficiency /					
Tj and indoor 27°C/19°C(dry/wet bulb)			auxiliary energy factor for part load at given outdoor temperatures Tj					
			,			r	,	
Tj=+35°C	Pdc	13.6	kW	Tj=+35°C	EERd or	285.0	%	
			ا ا		GUEc,bin / AEFc,bin			
Tj=+30°C	Pdc	10.0	kW	Tj=+30°C	EERd or	500.0	%	
			٦		GUEc,bin / AEFc,bin			
Tj=+25°C	Pdc	6.4	kW	Tj=+25°C	EERd or	850.0	%	
T:- 100°0	Dda		المدير		GUEc,bin / AEFc,bin			
Tj=+20°C	Pdc	3.3	kW	Tj=+20°C	EERd or	1680.0	%	
			ا ا		GUEc,bin / AEFc,bin		l	
Degradation		0.25						
coefficient for	Cdc	0.23	-					
air conditioners**			J					
Power consumpiton in other than	'active mode'							
i ower consumption in other than	active mode							
Off mode	P _{OFF}	0.008	kW	Crankcase heat	er mode P _{CK}	0.005	kW	
Thermostat-off mode	P_{TO}	0.000	kW	Standby mode	P _{SB}	0.008	kW	
			-				•	
Other items								
			_	For air-to-air air	conditioner:	4,500	m ³ /h	
Capacity control		variable		air flow-rate,out	door measured	4,000	''' /''	
			_					
Sound power level,	L_WA	72.0	dB					
outdoor			_					
			,					
If engine driven:	NOx		mg/kWh					
Emissions of nitrogen	***	_	fuel input					
oxides			GCV					
			ا					
GWP of the		675	kgCO₂eq. (100years)					
refrigerant](,,					
Overtee to the telle	NATION INTO INTO INTO INTO INTO INTO INTO	a tala a dia a sa		L TD				
	Mitsubishi heavy indu				ers shall be 0.25			
** If Cdc is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.								
*** from 26 September 2018								
Where information relates to multi-spilt air conditioners, the test result and performance data be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.								
or the outdoor unit, with a combin	iddon or indoor unit(s)	reconnict	laca by the fi	ianuiaciuiei () IIII	portor.			

Information to identify the model(s) to which the information relates : FDC140VSA-W / FDUM71VH (2 units)								
Outdoor side heat exchanger of heat pump : air								
Indoor side heat exchanger of heat pump : air								
Indication if the heater is equipped with a supplementary heater : No								
if applicable : electric motor								
Parameters shall be declared for the average heating season , parameters for the warmer and colder heating seasons are optional.								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heating capacity	буньог	Value	O I II		ng energy efficiency ηs,h	Value	OTIN	
	Prated,h	15.5	kW			205.7	%	
Declared heating capacity for part loa	d at indoor tempe	erature 20°	С	Declared coefficient of performance or gas utilization efficiency /				
and outdoor temperature Tj			auxiliary energy factor for part load at given outdoor temperatures Tj					
T _i =-7°C	Pdh	9.3	kW	T _i =-7°C	COPd or		1	
,			-	,	GUEh,bin / AEFh,bin	335.0	%	
T _j =+2°C	Pdh	5.6	kW	T _j =+2°C	COPd or	506.0	%	
			٦		GUEh,bin / AEFh,bin		,,,	
T _j =+7°C	Pdh	3.6	kW	T _j =+7°C	COPd or	678.0	%	
T _i =+12°C	Pdh	3.1	kW	T _i =+12°C	GUEh,bin / AEFh,bin COPd or			
, .=-]	,	GUEh,bin / AEFh,bin	933.0	%	
T _{biv} =bivalent temperature	Pdh	10.5	kW	T _{biv} =bivalent	COPd or	250.0	%	
			,	temperature	GUEh,bin / AEFh,bin	200.0	/*	
T _{OL} =operation limit	Pdh	7.9	kW	T _{OL} =operation limit	COPd or	200.0	%	
For air-to-water heat pumps :	Pdh		kW	For air-to-water heat	GUEh,bin / AEFh,bin			
T _i =-15°C	i dii],,,,	pumps:T _i =-15°C	GUEh,bin / AEFh,bin	-	%	
(if T _{OL} <-20°C)				(if T _{OL} <-20°C)				
			۱.				1	
Bivalent temperature	T_biv	-10.0	°C	For water-to-air heat			00	
Degradation			1	pumps:Operation lim T _{ol} temperature	lit	-	°C	
coefficient	C_{dh}	0.25	-	1 ₀ temperature			I	
heat pumps**	411							
			_					
							ı	
Power consumpiton in modes other th	nan 'active mode'			Supplementary heated back-up heating cap	eibu	-	kW	
Off mode	P _{OFF}	0.008	kW	back-up fleating cap	acity		J	
Thermostat-off mode	P_{TO}	0.000	kW	Type of energy input	P _{SB}	0.008	kW	
Crankcase heater mode	P _{CK}	0.005	kW	Standby mode	· SB	0.000	KVV	
Oth an it area								
Other items				For air-to-air heat pu	imns:		1 .	
Capacity control		variable	1	air flow-rate,outdoor		4,380	m ³ /h	
			_					
Sound power level,	L_WA	73.0	dB	For water-/brine-to-a			2	
outdoor measured]	Rated brine or water		-	m ³ /h	
Emissions of nitrogen			mg/kWh	outdoor side heat ex	cnanger		l	
oxides(if applicable)	NOx	_	fuel input					
, ,,			GCV					
GWP of the			kgCO2eq.					
refrigerant		675	(100years)					
- g			- [
Contact details Mitsubishi heavy industries thermal systems,LTD								
** If Cdh is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.								
*** from 26 September 2018								
Where information relates to multi-spilt air conditioners, the test result and performance data be obtained on the basis of the performance								
of the outdoor unit, with a combination	n of indoor unit(s)	recommer	nded by the n	nanufacturer or importer				

FDUM140VNAWTVH

Model(s): FDC140VNA-W	/ FDUM50V	'H (3 units))				
Outdoor side heat exchanger of a	air conditioner :	air					
Indoor side heat exchanger of air	conditioner :	air					
Type: vapour compression							
if applicable : electric mo	tor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space	cooling energy		
	Prated,c	13.6	kW	efficiency ηs,c		288.0	%
Declared cooling capacity for part	t load at given outdoo	r temperati	ures	Declared energy	y efficiency ratio or gas utilization of	efficiency /	
Tj and indoor 27°C/19°C(dry/wet b	oulb)			auxiliary energy	factor for part load at given outdo	or temperatures	Tj
			,				
Tj=+35°C	Pdc	13.6	kW	Tj=+35°C	EERd or	285.0	%
			۱ ا		GUEc,bin / AEFc,bin		
Tj=+30°C	Pdc	10.0	kW	Tj=+30°C	EERd or	500.0	%
			۱ ا		GUEc,bin / AEFc,bin		
Tj=+25°C	Pdc	6.4	kW	Tj=+25°C	EERd or	850.0	%
T'			٦		GUEc,bin / AEFc,bin		
Tj=+20°C	Pdc	3.3	kW	Tj=+20°C	EERd or	1680.0	%
			ا ا		GUEc,bin / AEFc,bin		l
Degradation		0.25					
coefficient for	Cdc	0.25	-				
air conditioners**			J				
Davis and the same in all and the same	la ation and del						
Power consumpiton in other than	active mode						
Off mode	P _{OFF}	0.008	kW	Crankcase heat	er mode P _{CK}	0.005	kW
Thermostat-off mode	P _{TO}	0.000	kW	Standby mode	P _{SB}	0.008	kW
	10]		OB		J
Other items							
				For air-to-air air	conditioner:] ,
Capacity control		variable]	air flow-rate,out		4,500	m ³ /h
			_				•
Sound power level,		70.0	dB				
outdoor	L_WA	72.0	ub				
If engine driven:			mg/kWh				
Emissions of nitrogen	NOx ***	-	fuel input				
oxides			GCV				
			_				
GWP of the		675	kgCO₂eq.				
refrigerant			(100years)				
,	Mitsubishi heavy indu						
** If Cdc is not determined by me	asurement then the de	efault degr	adation coeff	icient air condition	ers shall be 0,25.		
*** from 26 September 2018							
Where information relates to mult	ti-spilt air conditioners	,the test re	sult and perfe	ormance data be	obtained on the basis of the perfor	mance	
of the outdoor unit, with a combin	ation of indoor unit(s)	recommer	nded by the n	nanufacturer or im	porter.		

Outdoor side heat exchanger of heat pump: Indoor side heat exchanger of heat pump: Indication if the heater is equipped with a supplementary heater: No If applicable: Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional. Item Symbol Value Unit Item Symbol Value Unit Rated heating capacity Seasonal space heating energy efficiency ris,h
Indoor side heat exchanger of heat pump: Indication if the heater is equipped with a supplementary heater: No If applicable: electric motor Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional. Item Symbol Value Unit Item Symbol Value Unit
Indication if the heater is equipped with a supplementary heater: No if applicable: electric motor Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional. Item Symbol Value Unit Item Symbol Value Unit
Parameters shall be declared for the average heating season , parameters for the warmer and colder heating seasons are optional. Item Symbol Value Unit Item Symbol Value Unit
Item Symbol Value Unit Item Symbol Value Unit
Seasonal spaso flouring charge charges in solution of plant
Prated,h 15.5 kW 205.7 %
Declared heating capacity for part load at indoor temperature 20°C and outdoor temperature Tj Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj
and states temporation if
T _j =-7°C Pdh 9.3 kW T _j =-7°C COPd or 335.0 %
GUEh,bin / AEFh,bin
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
T.=+7°C Pdh 3.6 kW T.=+7°C COPd or
GUEh,bin / AEFh,bin
T _j =+12°C Pdh 3.1 kW T _j =+12°C COPd or 933.0 %
GUEh,bin / AEFh,bin
T _{biv} =bivalent temperature Pdh 10.5 kW T _{biv} =bivalent COPd or temperature GUEh,bin / AEFh,bin
To = operation limit COPd or
GUEh,bin / AEFh,bin
For air-to-water heat pumps : PdhkW For air-to-water heat COPd or %
$ \begin{array}{c cccc} T_j\text{=-}15^\circ\text{C} & & \text{pumps:}T_j\text{=-}15^\circ\text{C} & \text{GUEh,bin / AEFh,bin} \\ \text{(if } T_\text{OL} < -20^\circ\text{C)} & & \text{(if } T_\text{OL} < -20^\circ\text{C)} \\ \end{array} $
(1100 <-200)
Bivalent temperature T _{biv} -10.0 °C For water-to-air heat
pumps:Operation limit – °c
Degradation T _{ol} temperature
coefficient C _{dh} 0.25 - heat pumps**
Treat parties
Power consumpiton in modes other than 'active mode' Supplementary heater elbu - kW
Off mode P _{OFF} 0.008 kW
Thermostat-off mode Pro 0.000 kW Type of energy input
Crankcase heater mode P _{CK} 0.005 kW Standby mode P _{SB} 0.008 kW
Other items
For air-to-air heat pumps: Capacity control Variable Variable Variable 4,380 m³/h
Capacity control air flow-rate, outdoor measured
Sound power level, L _{WA} 73.0 dB For water-/brine-to-air heat pumps :
outdoor measured Rated brine or water flow-rate, - m³/h
outdoor side heat exchanger
Emissions of nitrogen oxides(if applicable) NOX +++ NOX fuel input
Oxides(if applicable) *** GCV
GWP of the refrigerant 675 kgCO ₂ eq. (100years)
refrigerant (100years)
Contact details Mitsubishi heavy industries thermal systems,LTD
** If Cdh is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018
Where information relates to multi-spilt air conditioners, the test result and performance data be obtained on the basis of the performance
of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

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FDUM140VSAWTVH

Model(s): FDC140VSA-W /	FDUM50V	'H (3 units)					
Outdoor side heat exchanger of air condit	ioner :	air					
Indoor side heat exchanger of air condition	ner :	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	•			Seasonal space cod	•		
	Prated,c	13.6	kW	efficiency ηs,c	• •	288.0	%
Declared cooling capacity for part load at	given outdoo	r temperatu	ires	Declared energy eff	iciency ratio or gas utilization efficie	ncy /	
Tj and indoor 27°C/19°C(dry/wet bulb)				auxiliary energy fac	tor for part load at given outdoor ten	nperatures	Tj
Tj=+35°C	Pdc	13.6	kW	Tj=+35°C	EERd or	285.0	%
			_		GUEc,bin / AEFc,bin	205.0	70
Tj=+30°C	Pdc	10.0	kW	Tj=+30°C	EERd or	500.0	0/.
		,	-		GUEc,bin / AEFc,bin	500.0	%
Tj=+25°C	Pdc	6.4	kW	Tj=+25°C	EERd or	850.0	%
			_		GUEc,bin / AEFc,bin	030.0	/0
Tj=+20°C	Pdc	3.3	kW	Tj=+20°C	EERd or	1680.0	%
			-		GUEc,bin / AEFc,bin	1000.0	70
Degradation]				
coefficient for	Cdc	0.25	-				
air conditioners**							
Power consumpiton in other than 'active r	node'						
			_				
Off mode	P_{OFF}	0.008	kW	Crankcase heater n	node P _{CK}	0.005	kW
Thermostat-off mode	P_{TO}	0.000	kW	Standby mode	P_{SB}	0.008	kW
Other items					·		.
			,	For air-to-air air con	ditioner:	4,500	m³/h
Capacity control		variable]	air flow-rate,outdoor	r measured	.,000	
			,				
Sound power level,	L_WA	72.0	dB				
outdoor	WA]				
			.				
If engine driven:	NOv		mg/kWh				
Emissions of nitrogen	NOx ***	_	fuel input				
oxides			GCV				
			,				
GWP of the		675	kgCO₂eq.				
refrigerant			(100years)				
Contact details Mitsubis	hi heavy indu	stries thern	nal systems,l	LTD			
** If Cdc is not determined by measureme	ent then the de	efault degra	adation coeffi	cient air conditioners	shall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-spilt air	conditioners	the test res	sult and perfo	ormance data be obta	ined on the basis of the performanc	e	
of the outdoor unit, with a combination of	indoor unit(s)	recommen	ded by the m	nanufacturer or import	ter.		

Information to identify the model(s) to	which the inform	ation relate	es: F	DC140VSA-W	FDUM50VH (3 units)		
Outdoor side heat exchanger of heat		air			. , ,		
Indoor side heat exchanger of heat pu		air					
Indication if the heater is equipped wit				No			
if applicable : electric motor							
Parameters shall be declared for the a	average heating:	season , pa	arameters for	the warmer and colder	heating seasons are optional.		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	буньог	Value	O I II		ng energy efficiency ηs,h	Value	OTIN
3 3	Prated,h	15.5	kW		3 3,	205.7	%
Declared heating capacity for part loa	d at indoor tempe	erature 20°	С		f performance or gas utilization		
and outdoor temperature Tj				auxiliary energy factor	for part load at given outdoor	emperature	es Tj
T _i =-7°C	Pdh	9.3	kW	T _i =-7°C	COPd or		1
,			1	,	GUEh,bin / AEFh,bin	335.0	%
T _j =+2°C	Pdh	5.6	kW	T _j =+2°C	COPd or	506.0	%
			,		GUEh,bin / AEFh,bin	300.0	70
T _j =+7°C	Pdh	3.6	kW	T _j =+7°C	COPd or	678.0	%
T _i =+12°C	Pdh	3.1	kW	T _i =+12°C	GUEh,bin / AEFh,bin COPd or		
.,		<u> </u>]	.,	GUEh,bin / AEFh,bin	933.0	%
T _{biv} =bivalent temperature	Pdh	10.5	kW	T _{biv} =bivalent	COPd or	250.0	%
			,	temperature	GUEh,bin / AEFh,bin	230.0	70
T _{OL} =operation limit	Pdh	7.9	kW	T _{OL} =operation limit	COPd or	200.0	%
For air-to-water heat pumps :	Pdh		kW	For air-to-water heat	GUEh,bin / AEFh,bin		
T _i =-15°C	Full		Jvvv	pumps:T _i =-15°C	GUEh,bin / AEFh,bin	-	%
(if T _{OL} <-20°C)				(if T _{OL} <-20°C)			
			_				
Bivalent temperature	T_biv	-10.0]°C	For water-to-air heat			0-
Degradation			1	pumps:Operation lim T _{ol} temperature	nit	-	°C
coefficient	C_{dh}	0.25	_	1 ₀ temperature			l
heat pumps**	- un						
			-				
							1
Power consumpiton in modes other th	nan 'active mode'			Supplementary heat	eibu	-	kW
Off mode	P _{OFF}	0.008	kW	back-up heating cap	acity		I
Thermostat-off mode	P _{TO}	0.000	kW	Type of energy input	t _D	0.008	kW
Crankcase heater mode	P_{CK}	0.005	kW	Standby mode	P _{SB}	0.008	KVV
Other items				For air to air boot au	impo:		1
Capacity control		variable	1	For air-to-air heat pu air flow-rate,outdoor		4,380	m ³ /h
			-				ı
Sound power level,	L_WA	73.0	dB	For water-/brine-to-a	ir heat pumps :		
outdoor measured	WA]	Rated brine or water		-	m ³ /h
Emissions of nitrogen			ma er // c) A / la	outdoor side heat ex	changer		l
Emissions of nitrogen oxides(if applicable)	NOx	l _	mg/kWh fuel input				
oxideo(ii applioable)	***		GCV				
			-				
OWD 11			1. 00				
GWP of the		675	kgCO ₂ eq. (100years)				
refrigerant]()				
				<u> </u>			
Contact details Mits	ubishi heavy indu	ustries theri	mal systems,	LTD			
** If Cdh is not determined by measur	ement then the d	efault degr	adation coeff	icient air conditioners sh	nall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-spi	It air conditioners	the test re	sult and perf	ormance data be obtaine	ed on the basis of the performa	ance	
of the outdoor unit, with a combination	n of indoor unit(s)	recommer	nded by the n	nanufacturer or importer			

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Models FDUM50VH, 60VH, 71VH, 100VH, 125VH, 140VH

Model(s): FDUM50VH											
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Un				
Cooling capacity (sensible)	Prated,c	3.7	kW	Total electric power input	Pelec	0.100	kΝ				
Cooling capacity (latent)	Prated,c	1.3	kW	Sound power level (per speed setting,if applicable)	LWA	60.0	dB				
Heating capacity	Prated,h	5.4	kW								
Contact details	Mitsubishi I	neavy ind	ustries the	ermal systems,LTD							

Model(s): FDUM60VH										
ltem	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Unit			
Cooling capacity (sensible)	Prated,c	3.9	kW	Total electric power input	Pelec	0.160	kW			
Cooling capacity (latent)	Prated,c	1.7	kW	Sound power level (per speed setting,if applicable)	LWA	60.0	dB			
Heating capacity	Prated,h	6.7	kW							
Contact details	Mitsubishi I	neavy ind	ustries the	rmal systems,LTD						

Model(s): FDUM71VH							
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Unit
Cooling capacity (sensible)	Prated,c	5.8	kW	Total electric power input	Pelec	0.200	kW
Cooling capacity (latent)	Prated,c	1.3	kW	Sound power level (per speed setting,if applicable)	LWA	65.0	dB
Heating capacity	Prated,h	8.0	kW				
Contact details	Mitsubishi I	neavy ind	ustries the	ermal systems,LTD			

Model(s): FDUM100VH							
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Unit
Cooling capacity (sensible)	Prated,c	7.7	kW	Total electric power input	Pelec	0.290	kW
Cooling capacity (latent)	Prated,c	2.3	kW	Sound power level (per speed setting,if applicable)	LWA	65.0	dB
Heating capacity	Prated,h	11.2	kW				
Contact details	Mitsubishi h	neavy ind	ustries ther	mal systems,LTD			

Model(s): FDUM125VH							
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Unit
Cooling capacity (sensible)	Prated,c	10.5	kW	Total electric power input	Pelec	0.330	kW
Cooling capacity (latent)	Prated,c	2.0	kW	Sound power level (per speed setting,if applicable)	LWA	67.0	dB
Heating capacity	Prated,h	14.0	kW				
Contact details	Mitsubishi h	eavy ind	ustries therr	nal systems,LTD			

Model(s): FDUM140VH							
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Unit
Cooling capacity (sensible)	Prated,c	11.2	kW	Total electric power input	Pelec	0.450	kW
Cooling capacity (latent)	Prated,c	2.8	kW	Sound power level (per speed setting,if applicable)	LWA	70.0	dB
Heating capacity	Prated,h	16.0	kW				
Contact details	Mitsubishi h	eavy ind	ustries therr	nal systems,LTD			

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(5) Ceiling suspended type (FDE)

FDE100VNAWVH

Information to identify the model Indoor unit model name	FDE100VH		If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.			
Outdoor unit model name	FDC100VN	A-W	heating season at a time. Include at	least the heating	g season 'Average'.	
Function(indicate if present)			Average(mandatory)	Yes		
cooling heating	Yes Yes		Warmer(if designated) Colder(if designated)	No No		
neating	1 163		Colder(ii designated)	I NO		
Item	symbol va	alue unit	Item		value class	
Design load cooling	Pdesignc	10.0 kW	Seasonal efficiency and energy efficooling	ciency class SEER	6.67 A++	
heating / Average	Pdesignh	8.5 kW	heating / Average	SCOP/A	4.31 A+	
heating / Warmer	Pdesignh	- kW	heating / Warmer	SCOP/W		
heating / Colder	Pdesignh	- kW	heating / Colder	SCOP/C		
Declared capacity at outdoor ter	nperature Tdesignh		Back up heating capacity at outdoo	r temperature T	unit Tdesianh	
heating / Average (-10°C)	Pdh	8.5 kW	heating / Average (-10°C)	elbu	0 kW	
heating / Warmer (2°C)	Pdh	- kW	heating / Warmer (2°C)	elbu	- kW	
heating / Colder (-22°C)	Pdh	- kW	heating / Colder (-22°C)	elbu	- kW	
Declared capacity for cooling, at	indoor temperature	27(19)°C and	Declared energy efficiency ratio, at	indoor tempera	ture 27(19)°C and	
outdoor temperature Tj	- · -	1	outdoor temperature Tj			
Tj=35°C Tj=30°C	Pdc Pdc	10.00 kW 7.37 kW	Tj=35°C Tj=30°C	EERd EERd	3.51 - 5.29 -	
Tj=30 C	Pdc	4.74 kW	Tj=25°C	EERd	8.79	
Tj=20°C	Pdc	3.10 kW	Tj=20°C	EERd	10.60 -	
Declared conscitutor booting //		ada a s	Declared as officient of newforman	- / A	an atindan	
Declared capacity for heating / A temperature 20°C and outdoor to		10001	Declared coefficient of performance temperature 20°C and outdoor 20°C and outdoor 20°C and outdoor 20°C and 00°C and 0		ISO(1, at I11000f	
Tj=-7°C	Pdh	7.40 kW	Tj=-7°C	COPd	3.10 -	
Tj=2°C	Pdh	4.50 kW	Tj=2°C	COPd	4.16 -	
Tj=7°C Tj=12°C	Pdh Pdh	2.90 kW 2.90 kW	Tj=7°C Tj=12°C	COPd COPd	5.35	
Tj=bivalent temperature	Pdh	2.90 kW 8.50 kW	Tj=12 C	COPd	6.70 - 2.80 -	
Tj=operating limit	Pdh	6.30 kW	Tj=operating limit	COPd	2.20 -	
				/34/		
Declared capacity for heating / Vitemperature 20°C and outdoor to		idoor	Declared coefficient of performance temperature 20°C and outdoor 20°C and outdoor 20°C and 00°C and 00		son, at indoor	
Tj=2°C	Pdh	- kW	Tj=2°C	COPd		
Tj=7°C	Pdh	- kW	Tj=7°C	COPd		
Tj=12°C	Pdh Pdh	- kW - kW	Tj=12°C	COPd COPd		
Tj=bivalent temperature Tj=operating limit	Pdh	- kW	Tj=bivalent temperature Tj=operating limit	COPd	-	
				10.11		
	inder season at ind	oor	Declared coefficient of performance	e / Colder seaso	on, at indoor	
Declared capacity for heating / 0						
temperature 20°C and outdoor to			temperature 20°C and outdoor temp	perature Tj		
temperature 20°C and outdoor to Tj=-7°C Tj=2°C	emperature Tj	- kW - kW	temperature 20°C and outdoor 20°C and outdoor 20°C and o		<u>-</u> -	
temperature 20°C and outdoor to Tj=-7°C Tj=2°C Tj=7°C	emperature Tj Pdh Pdh Pdh Pdh	- kW - kW - kW	temperature 20°C and outdoor temp Tj=-7°C Tj=2°C Tj=7°C	perature Tj COPd COPd COPd		
temperature 20°C and outdoor to Tj=-7°C Tj=2°C Tj=12°C Tj=12°C	emperature Tj Pdh Pdh Pdh Pdh Pdh	- kW - kW - kW	temperature 20°C and outdoor temp Tj=-7°C Tj=2°C Tj=7°C Tj=12°C	perature Tj COPd COPd COPd COPd	- - - - -	
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temperature 20°C and outdoor to Tj=-7°C Tj=2°C Tj=9°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Bivalent temperature heating / Average heating / Average heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power mo off mode	emperature Tj Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh	- kW - kW - kW - kW - kW - kW - kW - kW	temperature 20°C and outdoor temptons of the control of the contro	Tol Tol Tol COPcyc COPdy COPd COPd COPd COPd COPd COPd COPd COPd	-20 °C - °C - °C - °C - °C - °C - °C - °C	
temperature 20°C and outdoor to Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=15°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power mo off mode standby mode thermostat-off mode	emperature Tj Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh	- kW - kW - kW - kW - kW - kW - kW - kW	temperature 20°C and outdoor temptons of the control of the contro	perature Tj COPd COPd COPd COPd COPd COPd COPd Tol Tol Tol EERcyc COPcyc Cdh	-20 °C - °C - °C - °C - °C - °C	
temperature 20°C and outdoor to Tj=-7°C Tj=2°C Tj=2°C Tj=12°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power mooff mode standby mode	emperature Tj Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh	- kW - kW - kW - kW - kW - kW - kW - kW	temperature 20°C and outdoor temptons of the control of the contro	Tol Tol Tol COPcyc COPd COPd COPd COPd COPd COPd COPd COPd	-20 °C - °C - °C - °C - °C - °C - °C - °C	
temperature 20°C and outdoor to Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=15°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power mo off mode standby mode thermostat-off mode	emperature Tj Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh	- kW - kW - kW - kW - kW - kW - kW - kW	temperature 20°C and outdoor temptons of the control of the contro	Tol Tol Tol COPcyc COPd COPd COPd COPd COPd COPd COPd COPd	-20 °C - °C - °C - °C - °C - °C - °C - °C	
temperature 20°C and outdoor to Tj=-7°C Tj=2°C Tj=2°C Tj=12°C Tj=12°C Tj=15°C Bivalent temperature Tj=-0.5°C Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power mooff mode standby mode thermostat-off mode crankcase heater mode	emperature Tj Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh	- kW - kW - kW - kW - kW - kW - kW - kW	temperature 20°C and outdoor temptons of the control of the contro	perature Tj COPd COPd COPd COPd COPd COPd COPd COPd		
temperature 20°C and outdoor to Tj=-7°C Tj=2°C Tj=2°C Tj=12°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power mo off mode standby mode thermostat-off mode Capacity control(indicate one of	emperature Tj Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh	- kW - kW - kW - kW - kW - kW - kW - kW	temperature 20°C and outdoor tem T = -7°C T = 2°C T = 12°C T = 12°C T = 12°C T = 15°C T = 15°C Operating limit temperature T = -15°C Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Average heating / Colder Other items Sound power level(indoor) Sound power level(outdoor)	perature Tj COPd COPd COPd COPd COPd COPd COPd Tol Tol Tol Tol COPcyc Cdh Qce Qhe Qhe Qhe Lwa Lwa		
temperature 20°C and outdoor to Tj=-7°C Tj=2°C Tj=2°C Tj=7°C Tj=12°C Tj=15°C Bivalent temperature Tj=-15°C Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power mooff mode standby mode thermostat-off mode Capacity control(indicate one of fixed	emperature Tj Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh	- kW - kW - kW - kW - kW - kW - kW - kW	temperature 20°C and outdoor tem T = -7°C T = 2°C T = 7°C T = 12°C T = 12°C T = 15°C T = 15°C Operating limit temperature T = -15°C Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Average heating / Colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential	perature Tj COPd COPd COPd COPd COPd COPd COPd COPd	-20 °C - °C - °C - °C - °C - °C - °C - °C	
temperature 20°C and outdoor to Tj=-7°C Tj=2°C Tj=2°C Tj=12°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power mo off mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of	emperature Tj Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh	- kW - kW - kW - kW - kW - kW - kW - kW	temperature 20°C and outdoor tem T = -7°C T = 2°C T = 2°C T = 12°C T = 12°C T = 15°C T = 15°C Operating limit temperature T = -15°C Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / Warmer heating / colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor)	perature Tj COPd COPd COPd COPd COPd COPd COPd Tol Tol Tol Tol COPcyc Cdh Qce Qhe Qhe Qhe Qhe Qhe Qhe COPd		
temperature 20°C and outdoor to Tj=-7°C Tj=2°C Tj=2°C Tj=7°C Tj=12°C Tj=15°C Bivalent temperature Tj=-15°C Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power mooff mode standby mode thermostat-off mode Capacity control(indicate one of fixed	emperature Tj Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh	- kW - kW - kW - kW - kW - kW - kW - kW	temperature 20°C and outdoor tempt Tj=-7°C Tj=2°C Tj=12°C Tj=12°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Warmer heating / Warmer heating / Other heating / Warmer heating / Warmer heating / Colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(outdoor) Rated air flow(outdoor)	perature Tj COPd COPd COPd COPd COPd COPd COPd Tol Tol Tol Tol COPcyc Cdh Qce Qhe Qhe Qhe Qhe Che Lwa Lwa GWP	-20 °C - °C - °C - °C - °C - °C - °C - °C	
temperature 20°C and outdoor to Tj=-7°C Tj=2°C Tj=2°C Tj=12°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power mo off mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of fixed staged variable Contact details for obtaining	emperature Tj Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh	- kW - kW - kW - kW - kW - kW - kW - kW	temperature 20°C and outdoor temptone in the control of the contro	perature Tj COPd COPd COPd COPd COPd COPd COPd Tol Tol Tol Tol COPcyc Cdh Qce Qhe Qhe Qhe Qhe Che Lwa Lwa GWP		
temperature 20°C and outdoor to Tj=-7°C Tj=2°C Tj=2°C Tj=12°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power mooff mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of fixed staged variable	Pemperature Tj Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh	- kW - kW - kW - kW - kW - kW - kW - kW	temperature 20°C and outdoor temp Tj=-7°C Tj=2°C Tj=12°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Operating limit temperature heating / Average heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Average heating / Average heating / Colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor) er or of its authorised representative. ioning Europe, Ltd.	perature Tj COPd COPd COPd COPd COPd COPd COPd Tol Tol Tol Tol COPcyc Cdh Qce Qhe Qhe Qhe Qhe Che Lwa Lwa GWP		
temperature 20°C and outdoor to Tj=-7°C Tj=2°C Tj=2°C Tj=12°C Tj=15°C Tj=tobivalent temperature Tj=operating limit Tj=-15°C Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power mo off mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of fixed staged variable Contact details for obtaining	Pemperature Tj Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh	- kW - kW - kW - kW - kW - kW - kW - kW	temperature 20°C and outdoor temptone in the control of the contro	perature Tj COPd COPd COPd COPd COPd COPd COPd Tol Tol Tol Tol COPcyc Cdh Qce Qhe Qhe Qhe Qhe Che Lwa Lwa GWP		

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FDE100VSAWVH

Information to identify the mode Indoor unit model name	el(s) to which the info		If function includes heating: Indicating information relates to. Indicated vi	
Outdoor unit model name	FDC100V		heating season at a time. Include a	
Function(indicate if present) cooling	Yes		Average(mandatory) Warmer(if designated)	Yes No
heating	Yes		Colder(if designated)	No
Item	symbol	value unit	Item	symbol value class
Design load cooling	Pdesignc	10.0 kW	Seasonal efficiency and energy ef	fficiency class SEER 6.67 A++
heating / Average	Pdesignh	8.5 kW	heating / Average	SCOP/A 4.31 A+
heating / Warmer	Pdesignh	- kW	heating / Warmer	SCOP/W
heating / Colder	Pdesignh	- kW	heating / Colder	SCOP/C unit
Declared capacity at outdoor to			Back up heating capacity at outdo	oor temperature Tdesignh_
heating / Average (-10°C)	Pdh	8.5 kW - kW	heating / Average (-10°C)	elbu 0 kW
heating / Warmer (2°C) heating / Colder (-22°C)	Pdh Pdh	- kW - kW	heating / Warmer (2°C) heating / Colder (-22°C)	elbu - kW elbu - kW
, ,				· · · · · · · · · · · · · · · · · · ·
Declared capacity for cooling, a outdoor temperature Tj	at indoor temperature	e 27(19)°C and	Declared energy efficiency ratio, a outdoor temperature Tj	at indoor temperature 27(19)°C an
Ti=35°C	Pdc	10.00 kW	Ti=35°C	EERd 3.51 -
Tj=30°C	Pdc	7.37 kW	Tj=30°C	EERd 5.29 -
Tj=25°C	Pdc Pdc	4.74 kW 3.10 kW	Tj=25°C	EERd 8.79 - EERd 10.60 -
Tj=20°C	Fuc	3.10 KVV	Tj=20°C	EERU 10.60 -
Declared capacity for heating /		indoor	Declared coefficient of performance	
temperature 20°C and outdoor Ti=-7°C	temperature Tj Pdh 「	7.40 kW	temperature 20°C and outdoor ten	nperature Tj COPd 3.10 -
Ti=2°C	Pdh	4.50 kW	Ti=2°C	COPd 3.10 -
Tj=7°C	Pdh	2.90 kW	Tj=7°C	COPd 5.35 -
Tj=12°C	Pdh	2.90 kW	Tj=12°C	COPd 6.70 - COPd 2.80 -
Tj=bivalent temperature Tj=operating limit	Pdh Pdh	8.50 kW 6.30 kW	Tj=bivalent temperature Tj=operating limit	COPd 2.80 - COPd 2.20 -
	,			-
Declared capacity for heating / temperature 20°C and outdoor		indoor	Declared coefficient of performant temperature 20°C and outdoor ten	
Tj=2°C	Pdh [- kW	Ti=2°C	COPd
Tj=7°C	Pdh	- kW	Tj=7°C	COPd
Tj=12°C	Pdh	- kW	Tj=12°C	COPd
Tj=bivalent temperature Tj=operating limit	Pdh Pdh	- kW	Tj=bivalent temperature Tj=operating limit	COPd
Declared capacity for heating /			Declared coefficient of performance	•
temperature 20°C and outdoor			temperature 20°C and outdoor ten	
Tj=-7°C	Pdh	- kW	Tj=-7°C	COPd
Tj=2°C Tj=7°C	Pdh Pdh	- kW	Tj=2°C Tj=7°C	COPd
Tj=12°C	Pdh	- kW	T =12°C	COPd
Tj=bivalent temperature	Pdh	- kW	Tj=bivalent temperature	COPd
Tj=operating limit Tj=-15°C	Pdh Pdh	- kW	Tj=operating limit Tj=-15°C	COPd
1]=-13 C	Full	-	[1]=-15 C	COPU - -
Bivalent temperature	г	10-	Operating limit temperature	
heating / Average heating / Warmer	Tbiv Tbiv	10 °C - °C	heating / Average heating / Warmer	Tol
heating / Colder	Tbiv	- °C	heating / Colder	Tol - ℃
Cycling interval capacity for cooling	Pcycc	- kW	Cycling interval efficiency for cooling	EERcyc
for heating	Pcych	- kW	for heating	COPcyc
		,		
Degradation coefficient cooling	Cdc	0.25 -	Degradation coefficient heating	Cdh 0.25 -
	•			
Electric power input in power moff mode	odes other than 'act Poff		Annual electricity consumption cooling	Qce 525 kWh/a
standby mode	Psb	8 W 8 W	heating / Average	Qhe 2764 kWh/a
thermostat-off mode	Pto(cooling)	26 W	heating / Warmer	Qhe - kWh/a
arankasas bastar mada	Pto(heating)	43 W	heating / colder	Qhe - kWh/a
crankcase heater mode	Pck	5 W	_	
Capacity control(indicate one of	f three options)		Other items	
			Sound power level(indoor)	Lwa 64 dB(A)
fixed	No		Sound power level(outdoor) Global warming potential	Lwa 69 dB(A) GWP 675 kgCO ₂
staged	No		Rated air flow(indoor)	- 1920 m³/h
variable	Yes		Rated air flow(outdoor)	- 4500 m³/h
Contact details for obtaining	Name and add	of the manufact	vor or of its outhorized verses to the	
Contact details for obtaining more information			rer or of its authorised representative ditioning Europe, Ltd.	
	5 The Square, Sto		ge, Middlesex, UB11 1ET,	
	United Kingdom			

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FDE100VNAWPVH

Information to identify the model(Indoor unit model name Outdoor unit model name	(s) to which the info FDE50VH FDC100V	x2	If function includes heating: Indicate to information relates to. Indicated value heating season at a time. Include at least to the include at least t	es should relate	to one	\verage'.
Function(indicate if present)			Average(mandatory)	Yes		
cooling heating	Yes Yes		Warmer(if designated) Colder(if designated)	No No		
neating	100		Coldor(ii deoignated)	110		
Item Design load	symbol	value unit	Item Seasonal efficiency and energy efficiency	symbol ency class	value	class
cooling	Pdesignc	10.0 kW	cooling	SEER	6.16	A++
heating / Average	Pdesignh	8.5 kW	heating / Average	SCOP/A	4.10	A+
heating / Warmer heating / Colder	Pdesignh Pdesignh	- kW - kW	heating / Warmer heating / Colder	SCOP/W SCOP/C	-	-
rieating / Coldei	Fuesignin	-	Ileating / Colder	300F/0		unit
Declared capacity at outdoor tem	perature Tdesign		Back up heating capacity at outdoor t	emperature Tde	esignh	
heating / Average (-10°C)	Pdh	8.5 kW	heating / Average (-10°C)	elbu	0	kW
heating / Warmer (2°C) heating / Colder (-22°C)	Pdh Pdh	- kW - kW	heating / Warmer (2°C) heating / Colder (-22°C)	elbu elbu	-	kW kW
rieating / Colder (-22 C)	1 dii	- KVV	Treating / Colder (-22 C)	eibu		IKVV
Declared capacity for cooling, at	indoor temperatur	e 27(19)°C and	Declared energy efficiency ratio, at in	door temperatu	re 27(19)°	C and
outdoor temperature Tj Tj=35°C	Pdc	10.00 kW	outdoor temperature Tj	EERd	3.21	٦
Tj=30°C	Pdc	7.37 kW	Tj=30°C	EERd	5.20	-{-
Tj=25°C	Pdc	4.74 kW	Tj=25°C	EERd	7.40	1-
Tj=20℃	Pdc	3.30 kW	Tj=20°C	EERd	12.40	<u> </u>
Declared conseits for heating / A	vorage access of	indoor	Declared coefficient of performance	Average coope	n of indoc	
Declared capacity for heating / A temperature 20°C and outdoor te		iliuooi	Declared coefficient of performance / temperature 20°C and outdoor tempe		ii, at iiiuoc	Л
Tj=-7°C	Pdh	7.40 kW	Tj=-7°C	COPd	2.89	7-
Tj=2°C	Pdh	4.50 kW	Tj=2°C	COPd	4.14]-
Tj=7°C Tj=12°C	Pdh Pdh	2.90 kW 2.87 kW	Tj=7°C Tj=12°C	COPd	4.89 5.85	
Tj=12 C	Pdh	2.87 kW 8.50 kW	Tj=12 C	COPd COPd	2.30	1
Tj=operating limit	Pdh	6.30 kW	Tj=operating limit	COPd	2.25	1-
Declared capacity for heating / W temperature 20°C and outdoor te		indoor	Declared coefficient of performance / temperature 20°C and outdoor tempe		n, at indoo	JF.
Tj=2°C	Pdh	- kW	Ti=2°C	COPd	-	7-
Tj=7°C	Pdh	- kW	Tj=7°C	COPd	-]-
Tj=12°C	Pdh	- kW	Tj=12°C	COPd	-]-
Tj=bivalent temperature Tj=operating limit	Pdh Pdh	- kW - kW	Tj=bivalent temperature Tj=operating limit	COPd COPd	-	
Tj-operating inflit	i dii	- KVV	TJ-operating limit	COLU		1-
Declared capacity for heating / C		ndoor	Declared coefficient of performance /		, at indoor	
temperature 20°C and outdoor te		1,347	temperature 20°C and outdoor tempe			7
Tj=-7°C Tj=2°C	Pdh Pdh	- kW - kW	Tj=-7°C Tj=2°C	COPd COPd	-	-{⁻
Tj=2°C	Pdh	- kW	Ti=7°C	COPd	H	1
Tj=12°C	Pdh	- kW	Tj=12°C	COPd	-	1-
Tj=bivalent temperature	Pdh	- kW	Tj=bivalent temperature	COPd	-]-
Tj=operating limit Tj=-15°C	Pdh Pdh	- kW - kW	Tj=operating limit Ti=-15°C	COPd COPd	-	
1]15 C	Pull	- KVV		COPu		1-
Bivalent temperature			Operating limit temperature			
heating / Average	Tbiv	10 °C	heating / Average	Tol	-20	_°C
heating / Warmer heating / Colder	Tbiv Tbiv	- °C °C	heating / Warmer heating / Colder	Tol Tol	-	°C °C
rieating / Coldei	TDIV	- 0	Treating / Colder	101		10
Cycling interval capacity			Cycling interval efficiency			
for cooling	Pcycc	- kW - kW	for cooling	EERcyc	-	
for heating	Pcych	- KW	for heating	COPcyc		<u> </u>
Degradation coefficient			Degradation coefficient			_
cooling	Cdc	0.25 -	heating	Cdh	0.25	<u> -</u>
Electric power input in power mo	des other than 'ac	tive mode'	Annual electricity consumption			
off mode	Poff	15 W	cooling	Qce	569	kWh/a
standby mode	Psb	15 W	heating / Average	Qhe	2906	kWh/a
thermostat-off mode	Pto(cooling)	35 W	heating / Warmer	Qhe	-	kWh/a
crankcase heater mode	Pto(heating)	55 W 5 W	heating / colder	Qhe	-	kWh/a
orannoade moater meae		- I	-			
Capacity control(indicate one of	hree options)		Other items			7 ID(A)
			Sound power level(indoor) Sound power level(outdoor)	Lwa Lwa	60 69	dB(A) dB(A)
fixed	No		Global warming potential	GWP	675	kgCO₂eq.
staged	No		Rated air flow(indoor)	-	780	m ³ /h
variable	Yes		Rated air flow(indoor)	-	4500	m ³ /h
	<u> </u>					
			rer or of its authorised representative.			
			litioning Europe, Ltd. ge, Middlesex, UB11 1ET,			
	United Kingdom	.,,	<u> </u>			

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FDE100VSAWPVH

Information to identify the mode Indoor unit model name Outdoor unit model name	FDE50VH	x2	relates to:	If function includes heating: Indicate th information relates to. Indicated values heating season at a time. Include at least	should relate	to one	Average'.
Function(indicate if present) cooling	Yes			Average(mandatory) Warmer(if designated)	Yes No		
heating	Yes			Colder(if designated)	No		
14				IA			-1
Item Design load	symbol	value	unit	Item Seasonal efficiency and energy efficier	symbol ncv class	value	class
cooling	Pdesignc	10.0	kW	cooling	SEER	6.16	A++
heating / Average	Pdesignh	8.5	kW	heating / Average	SCOP/A	4.10	A+
heating / Warmer heating / Colder	Pdesignh Pdesignh	-	kW kW	heating / Warmer heating / Colder	SCOP/W SCOP/C	-	-
rieating / Colder	Puesignin		KVV	meating / Coider	3COP/C		unit
Declared capacity at outdoor te	mperature Tdesignh	1		Back up heating capacity at outdoor te	mperature Tde	esignh	
heating / Average (-10°C)	Pdh	8.5	kW	heating / Average (-10°C)	elbu	0	kW
heating / Warmer (2°C)	Pdh Pdh	-	kW	heating / Warmer (2°C)	elbu	-	kW
heating / Colder (-22°C)	Pull	-	kW	heating / Colder (-22°C)	elbu	-	kW
Declared capacity for cooling, a	t indoor temperature	e 27(19)°	°C and	Declared energy efficiency ratio, at ind	oor temperatu	re 27(19)°	C and
outdoor temperature Tj	- · · ·		٦	outdoor temperature Tj			7
Tj=35°C	Pdc	10.00		Tj=35°C Tj=30°C	EERd	3.21 5.20	
Tj=30°C Tj=25°C	Pdc Pdc	7.37 4.74	kW kW	Tj=30 C Tj=25°C	EERd EERd	7.40	-{-
Tj=20°C	Pdc	3.30	kW	Tj=20°C	EERd	12.40	1-
							•
Declared capacity for heating / temperature 20°C and outdoor t		indoor		Declared coefficient of performance / A temperature 20°C and outdoor temperature		n, at indoo	or
Tj=-7°C	Pdh	7.40	7kW	Ti=-7°C	COPd	2.89	٦_
Tj=2°C	Pdh	4.50	kW	Tj=2°C	COPd	4.14	┪_
Tj=7°C	Pdh	2.90	kW	Tj=7°C	COPd	4.89]-
Tj=12°C	Pdh	2.87	kW	Tj=12°C	COPd	5.85	<u> </u> -
Tj=bivalent temperature	Pdh Pdh	8.50 6.30	kW kW	Tj=bivalent temperature	COPd COPd	2.30	
Tj=operating limit	Pull	6.30	KVV	Tj=operating limit	COPu	2.25	<u> </u> -
Declared capacity for heating /	Warmer season, at	indoor		Declared coefficient of performance / V	Varmer seaso	n, at indoo	r
temperature 20°C and outdoor t			7	temperature 20°C and outdoor tempera			-
Tj=2°C Tj=7°C	Pdh Pdh	-	kW kW	Tj=2°C Tj=7°C	COPd COPd	<u> </u>	
Tj=12°C	Pdh		∃kw	Tj=12°C	COPd	-	1_
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	1 -
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	1
Declared capacity for heating / temperature 20°C and outdoor t	emperature Tj	idoor	_	Declared coefficient of performance / C temperature 20°C and outdoor temperature	ature Tj	at indoor	
Tj=-7°C	Pdh Pdh		kW	Tj=-7°C Tj=2°C	COPd	-	
Tj=2°C Tj=7°C	Pdh		kW kW	Ti=2°C	COPd COPd	-	-{-
Tj=12℃	Pdh	-	kW	Tj=12°C	COPd	-	1-
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-]-
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	<u> </u> -
Tj=-15°C	Pdh	-	kW	Tj=-15°C	COPd	-	-
Bivalent temperature				Operating limit temperature			
heating / Average	Tbiv	-10	°C	heating / Average	Tol	-20	°C
heating / Warmer	Tbiv	-	°C	heating / Warmer	Tol	<u> </u>	°C
heating / Colder	Tbiv	-	°C	heating / Colder	Tol	-	°C
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pcycc	-	kW	for cooling	EERcyc	-]-
for heating	Pcych	-	kW	for heating	COPcyc		<u> </u> -
Degradation coefficient				Degradation coefficient			
cooling	Cdc	0.25	7-	heating	Cdh	0.25]-
Electric control in the control of t	41 41 14		-1	[Annual alasticity and a state of the state			
Electric power input in power m off mode	Poff	15]w	Annual electricity consumption cooling	Qce	569	kWh/a
standby mode	Psb	15	Tw	heating / Average	Qhe	2906	kWh/a
thermostat-off mode	Pto(cooling)	35	w	heating / Warmer	Qhe	-	kWh/a
	Pto(heating)	55	W	heating / colder	Qhe	-	kWh/a
crankcase heater mode	Pck	5	W				
Capacity control(indicate one of	three options)			Other items Sound power level(indoor) Sound power level(outdoor)	Lwa Lwa	60 69	dB(A)
fixed	No			Global warming potential	GWP	675	kgCO₂eq.
staged	No			Rated air flow(indoor)	-	780	m³/h
variable	Yes			Rated air flow(outdoor)	-	4500	m ³ /h
	<u>'</u>			, ,			•
Contact details for obtaining more information	Mitsubishi Heavy I	ndustries	Air-Condit	er or of its authorised representative. ioning Europe, Ltd. e, Middlesex, UB11 1ET,			

PFA004Z088<u></u>⚠

FDE125VNAWVH

Model(s): FDC125VNA	A-W /	FDE125V	——— Н				
Outdoor side heat exchanger of a		air					
Indoor side heat exchanger of air	conditioner :	air					
Type: vapour compression							
if applicable : electric moto	or						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	,			Seasonal space	,		
	Prated,c	12.5	kW	cooling energy	η s,c	238.1	%
				efficiency			
Declared cooling capacity for par	t load at given ou	tdoor tempe	ratures	Declared energy	efficiency ratio or gas utilizati	ion efficiency /	
Tj and indoor 27°C/19°C(dry/wet l	bulb)			auxiliary energy fa	actor for part load at given ou	utdoor temperat	ures Tj
Tj=+35℃	Pdc	12.5	kW	Tj=+35°C	EERd or		1
,				1]=+35 C	GUEc,bin / AEFc,bin	281.0	%
Tj=+30°C	Pdc	9.2	kW	Tj=+30°C	EERd or		1
-				1,1-1000	GUEc,bin / AEFc,bin	449.0	%
Tj=+25°C	Pdc	5.9	kW	Tj=+25°C	EERd or		1
				.,	GUEc,bin / AEFc,bin	739.0	%
Tj=+20°C	Pdc	3.1	kW	Tj=+20°C	EERd or		.,
					GUEc,bin / AEFc,bin	1034.0	%
Degradation					,	-	-
coefficient for	Cdc	0.25	-				
air conditioners**							
Off mode Thermostat-off mode	P _{OFF} P _{TO}		kW kW	Crankcase heate Standby mode	r mode P _{CK} P _{SB}	0.005 0.008	kW kW
Other items							_
Capacity control		variable		For air-to-air air c		4,500	m³/h
Sound power level,		74.0	-ID				
outdoor	L_{WA}	71.0	dB				
If engine driven:			mg/kWh				
Emissions of nitrogen	NOx ***	-	fuel input				
oxides			GCV				
GWP of the			kgCO ₂ eq.				
		675	(100years)				
refrigerant							
Contact details M	itsubishi heavy in	dustries the	rmal systen	ns,LTD			
** If Cdc is not determined by me					itioners shall be 0,25.		
*** from 26 September 2018							
Where information relates to mult	ti-spilt air conditio	ners,the tes	t result and	performance data	be obtained on the basis of t	the performance	Э
of the outdoor unit, with a combin							

Information to identify the model(s) to w		formation	relates :	FDC125VNA-W /	FDE125VH			
Outdoor side heat exchanger of heat pu		air						
Indoor side heat exchanger of heat pur		air						
Indication if the heater is equipped with	a supplem	nentary hea	ater:	No				
if applicable : electric motor								
Parameters shall be declared for the av								
Item	Symbol	Value	Unit	Item	Symbol	Va	llue	Unit
Rated heating capacity	Drated b	140	1.107	Seasonal space	. 1.	460	ا ۱	۵,
	Prated,h	14.0	kW	heating energy	η s,h	169	3 .1	%
Designed heating cannoity for part load	-tindoort	aratur	- 2000	efficiency	-f aufa anao ar aa	- ··tilization (ff: oio	/
Declared heating capacity for part load a	at muoon te	eniperature	3 20 C	Declared coefficient of				
and outdoor temperature Tj			I	auxiliary energy factor	r for part load at give	en outdoor te	mpei	atures 1)
T 700	D-115		т.,,,,		2251			r
$T_j=-7$ °C	Pdh	8.7	kW	T _j =-7°C	COPd or	300	0.0	%
^-			٦ ا		GUEh,bin / AEFh,l	<u> </u>		
T _j =+2°C	Pdh	5.3	kW	T _j =+2°C	COPd or	415	5.0	%
-			-		GUEh,bin / AEFh,l	<u> </u>		
$T_j=+7^{\circ}C$	Pdh	3.4	kW	T _j =+7°C	COPd or	548	50	%
					GUEh,bin / AEFh,l		J. U	/6
T _j =+12°C	Pdh	3.0	kW	T _j =+12°C	COPd or	67/	- 0	%
,			- 1	'	GUEh,bin / AEFh,l	675	5.U	%
T _{biv} =bivalent temperature	Pdh	9.8	kW	T _{biv} =bivalent	COPd or	0.74		, I
l			, I	temperature	GUEh,bin / AEFh,l	270	0.0	%
T _{OL} =operation limit	Pdh	7.4	kW	T _{OI} =operation limit	COPd or		\neg	
10L-operation mine	I dii	7	7,,,	I OL Operation min.	GUEh,bin / AEFh,l	220	0.0	%
For air-to-water heat pumps :	Pdh	-	lkW	For air-to-water heat		├	\dashv	
T_i =-15°C	run		7,00	pumps:T _i =-15°C	GUEh,bin / AEFh,l		-	%
			I	l l' ' '	GUEII,DIII / AEFII,	<u> </u>		i j
(if T _{OL} <-20°C)			I	(if T _{OL} <-20°C)				
	_		ا ا					,
Bivalent temperature	T_{biv}	-10.0	°C	For water-to-air heat			1	
İ				pumps:Operation limi	it		-	°C
Degradation			1	T _{ol} temperature			1	
coefficient	C_{dh}	0.25	-			,		•
heat pumps**	un							
		ļ	-					
Power consumpiton in modes other than	n 'active m	ıode'		Supplementary heate	er	allari		kW
				back-up heating capa	acity	elbu	-	KVV
Off mode	P_{OFF}	0.008	kW		•			,
Thermostat-off mode	P _{TO}	0.045	kW	Type of energy input			\neg	ſ
			-	••		P _{SB} 0.0	80	kW
Crankcase heater mode	P_{CK}	0.005	kW	Standby mode		<u> </u>		į į
Ott Hama			\longrightarrow					
Other items								r
Conneity control			٦ ١	For air-to-air heat pur		4,3	80	m³/h
Capacity control		variable	7]	air flow-rate,outdoor r	neasured			i
Cound nower level			٦ ا	For water-/brine-to-ai	r hoot numno :			r
Sound power level,	L_{WA}	71.0	dB					m³/h
outdoor measured		<u> </u>	7]	Rated brine or water t			-	1119/11
Emissions of nitrogen			T////h	outdoor side heat exc	nanger	L		l
Emissions of nitrogen	NOx		mg/kWh					
oxides(if applicable)	***	I -	fuel input	1				
			_GCV					
			\longrightarrow					
GWP of the			Traco ea					
		675	kgCO ₂ eq.					
refrigerant			(100years)					
			I					
One-t- at dataila	- : b = 2007 in	-laratrica th	- res el evete					
			ermal syste					
** If Cdh is not determined by measurer	nent then	the default	degradatio	n coefficient air condition	oners snall de u,∠o.			
*** from 26 September 2018	ter e susualità.	· 4b = 4			titation of an Alam Isa.	·	C- 3300 4	
Where information relates to multi-spilt						sis of the per	forma	ance
of the outdoor unit, with a combination of	of indoor u	nit(s) recor	mmenaea p	y the manutacturer or i	mporter.			
İ								ŀ

FDE125VSAWVH

Model(s): FDC125VSA-W	/	FDE125V	/H				
Outdoor side heat exchanger of air cond	ditioner:	air					
Indoor side heat exchanger of air condit	ioner :	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	12.5	kW	Seasonal space cooling energy efficiency	η s,c	238.1	%
Declared cooling capacity for part load a	at given out	door tempe	eratures	Declared energy eff	ficiency ratio or gas utilization eff	iciency /	
Tj and indoor 27°C/19°C(dry/wet bulb)				auxiliary energy fac	tor for part load at given outdoor	temperati	ures Tj
Tj=+35°C	Pdc	12.5	kW	Tj=+35°C	EERd or GUEc,bin / AEFc,bin	281.0	%
Tj=+30°C	Pdc	9.2	kW	Tj=+30°C	EERd or GUEc,bin / AEFc,bin	449.0	%
Tj=+25°C	Pdc	5.9	kW	Tj=+25°C	EERd or GUEc,bin / AEFc,bin	739.0	%
Tj=+20°C	Pdc	3.1	kW	Tj=+20°C	EERd or GUEc,bin / AEFc,bin	1034.0	%
Degradation							•
coefficient for	Cdc	0.25	-				
air conditioners**							
Power consumpiton in other than 'active Off mode Thermostat-off mode	P _{OFF}	0.008	kW kW	Crankcase heater n	node P _{CK} P _{SB}	0.005	kW kW
Other items							1
Capacity control		variable]	For air-to-air air cor air flow-rate,outdoo		4,500	m³/h
Sound power level, outdoor	L_{WA}	71.0	dB				
If engine driven:			mg/kWh				
Emissions of nitrogen	NOx ***	-	fuel input				
oxides			GCV				
GWP of the		675	kgCO ₂ eq.				
refrigerant			(100years)				
			ermal systen		anara ahall ha 0.05		
** If Cdc is not determined by measuren	nent then ti	ne default d	uegradation	coemcient air conditio	oners shall be 0,25.		
*** from 26 September 2018						,	
Where information relates to multi-spilt						rtormance	:
of the outdoor unit, with a combination of	f indoor un	it(s) recom	imended by	the manufacturer or i	mporter.		

Information to identify the model(s) to v	vhich the ir	nformation i	relates :	FDC125VSA-W /	FDE125VH		
Outdoor side heat exchanger of heat p		air					
Indoor side heat exchanger of heat pur		air					
Indication if the heater is equipped with	a supplen	nentary hea	iter:	No			
if applicable : electric motor							
Parameters shall be declared for the av						· · · · · · · · · · · · · · · · · · ·	
Retail heating consoits	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	Prated,h	14.0	kW	Seasonal space heating energy	η s,h	169.1	%
	i rateu,i	17.0	KVV	efficiency	1 3,11	103.1	70
Declared heating capacity for part load	at indoor t	emperature	20°C		of performance or ga	s utilization efficie	ency /
and outdoor temperature Tj		•			or for part load at give		
·				, ,,		·	•
T _j =-7°C	Pdh	8.7	kW	T _i =-7°C	COPd or	300.0	%
			_		GUEh,bin / AEFh,I	300.0	/0
T _j =+2°C	Pdh	5.3	kW	T _j =+2°C	COPd or	415.0	%
			_		GUEh,bin / AEFh,I	413.0	
T _j =+7°C	Pdh	3.4	kW	T _j =+7°C	COPd or	545.0	%
					GUEh,bin / AEFh,I	0.10.0	<u> </u> ′°
T _j =+12°C	Pdh	3.0	kW	T _j =+12°C	COPd or	675.0	%
			1		GUEh,bin / AEFh,I		ļ [~]
T _{biv} =bivalent temperature	Pdh	9.8	kW	T _{biv} =bivalent	COPd or	270.0	%
			1	temperature	GUEh,bin / AEFh,l		1
T _{OL} =operation limit	Pdh	7.4	kW	T _{OL} =operation limit	COPd or	220.0	%
For air to water boot number.	Dale		TLAM	For air to water boot	GUEh,bin / AEFh,l		4
For air-to-water heat pumps :	Pdh	-	kW	For air-to-water heat		-	%
T _j =-15°C				pumps:T _j =-15°C	GUEh,bin / AEFh,I]
(if T _{OL} <-20°C)				(if T _{OL} <-20°C)			
Bivalent temperature	T _{biv}	-10.0	l℃	For water-to-air heat			7
Bivalent temperature	I biv	-10.0] ~	pumps:Operation lim			°C
Degradation			1	T _{ol} temperature	iit.		
coefficient	C_{dh}	0.25	_	T ₀ temperature			1
heat pumps**	Odh	0.20					
Theat pumps							
Power consumpiton in modes other that	an 'active n	node'		Supplementary heate	er	elbu -	kW
				back-up heating capa	acity	cibu -	IKWV
Off mode	P_{OFF}	0.008	kW				-
Thermostat-off mode	P_{TO}	0.045	kW	Type of energy input		P _{SB} 0.008	kW
Crankcase heater mode	P_{CK}	0.005	kW	Standby mode		. SB 0.000	
Other items				For air to air boot ou			7
Capacity control		variable	1	For air-to-air heat pu air flow-rate,outdoor		4,380	m³/h
Capacity Control		variable	J	all flow-rate,outdoor	illeasureu		1
Sound power level,		=4.0	1	For water-/brine-to-a	ir heat pumps :		Ī
outdoor measured	L_{WA}	71.0	dB	Rated brine or water		-	m³/h
		,	_	outdoor side heat ex	changer		
Emissions of nitrogen	NOx		mg/kWh				
oxides(if applicable)	***	-	fuel input				
			GCV				
GWP of the			kgCO₂eq.				
refrigerant		675	(100years)				
- J			1(.55,500.5)				
			ermal syste				
** If Cdh is not determined by measure	ment then	the default	degradatio	n coefficient air conditi	oners shall be 0,25.		
*** from 26 September 2018 Where information relates to multi-spilt	air conditi	oners the ta	agt regult a	nd nerformance data b	e ohtained on the bas	sis of the perform	ance
of the outdoor unit, with a combination		,		•		olo of the perioriii	u.100
		-(-,		,	P =		

FDE140VNAWVH

Model(s): FDC140VNA-V	N /	FDE140\	/H				
Outdoor side heat exchanger of air	conditioner :	air					
Indoor side heat exchanger of air co	onditioner :	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity			l	Seasonal space	Э		l
	Prated,c	13.6	kW	cooling energy	η s,c	227.6	%
				efficiency			
Declared cooling capacity for part lo	-	door temp	eratures	1	y efficiency ratio or gas utilization	-	
Tj and indoor 27°C/19°C(dry/wet bu	lb)			auxiliary energy	r factor for part load at given out	tdoor temperati	ures Tj
Tj=+35°C	Pdc	13.6	kW	T:- 125°C	FED4		1
,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. 40	10.0	_	Tj=+35°C	EERd or	269.0	%
Tj=+30°C	Pdc	10.0	kW	Tj=+30°C	GUEc,bin / AEFc,bin EERd or		
,			_	11,-1300	GUEc,bin / AEFc,bin	420.0	%
Tj=+25°C	Pdc	6.4	kW	Tj=+25°C	EERd or		.,
			_	'	GUEc,bin / AEFc,bin	682.0	%
Tj=+20°C	Pdc	3.1	kW	Tj=+20°C	EERd or	4024.0	%
			_		GUEc,bin / AEFc,bin	1034.0	70
Degradation							
coefficient for	Cdc	0.25	-				
air conditioners**			_				
Power consumpiton in other than 'a	ictive mode'						
0#	В	0.000	المدير	0		0.005	المدر
Off mode	P _{OFF}	0.008	kW	Crankcase heat		0.005	kW
Thermostat-off mode	P _{TO}	0.030	kW	Standby mode	P_SB	0.008	kW
Other items							
Other items				For air-to-air air	conditioner:		1
Capacity control		variable	,	air flow-rate,out		4,500	m³/h
			_	an now rato,out	aco. modourou		
Sound power level,		70.0],,,				
outdoor	L_{WA}	72.0	dB				
			_				
If engine driven:			mg/kWh				
Emissions of nitrogen	NOx ***	-	fuel input				
oxides			GCV				
			7				
GWP of the		675	kgCO ₂ eq.				
refrigerant			(100years)				
Contact details Mits ** If Cdc is not determined by meas	ubishi heavy inc				aditioners shall be 0.25		
	diement tien t	ie delauit	degradation	coefficient all cor	iditioners shall be 0,25.		
*** from 26 September 2018	anilt air ag = -!!t'	nore the	not rocult	I norformer'	to be obtained on the beets 500	no norfore	
Where information relates to multi-s of the outdoor unit, with a combinat						ie репоrmance	;
or the outdoor drift, with a combinat	ion or indoor dri	11(3) 18COII	mieniueu by	uic manulacidlel	от пиропет.		

Information to identify the model(s) to y	which the ir	formation	rolatos :	FDC140VNA-W /	FDE140VH		
Information to identify the model(s) to v Outdoor side heat exchanger of heat pre		air	reiales.	FDC14UVINA-VV /	FDE 140 VIII		
Indoor side heat exchanger of heat pur		air					
Indication if the heater is equipped with			otor:	No			
if applicable : electric motor	a supplem	lentary nea	ilei .	140			
Parameters shall be declared for the av	versae hes	ting seaso	n naramet	ere for the warmer and	colder heating seas	cone are ontional	
Item	Symbol		Unit	Item	Symbol	Value	Unit
Rated heating capacity	Зуппосі	T Value	T	Seasonal space	Зунион	Value	T
. ,	Prated,h		kW	heating energy efficiency	η s,h	166.6	%
Declared heating capacity for part load and outdoor temperature Tj	at indoor to	emperature	∋ 20°C	Declared coefficient of auxiliary energy factor			
T _j =-7°C	Pdh	9.2	kW	T _j =-7°C	COPd or GUEh,bin / AEFh,I	290.0	%
T _j =+2°C	Pdh	5.6	kW	T _j =+2°C	COPd or GUEh,bin / AEFh,I	410.0	%
T_j =+7°C	Pdh	3.6]kW	T _j =+7°C	COPd or GUEh,bin / AEFh,I	540.0	%
T _j =+12°C	Pdh	3.0	kW	T _j =+12°C	COPd or GUEh,bin / AEFh,I	675.0	%
T _{biv} =bivalent temperature	Pdh	10.5]kW	T _{biv} =bivalent temperature	COPd or GUEh,bin / AEFh,I	250.0	%
T _{OL} =operation limit	Pdh	7.9	kW	T _{OL} =operation limit	COPd or GUEh,bin / AEFh,I	210.0	%
For air-to-water heat pumps : T _j =-15°C	Pdh	-]kW	For air-to-water heat pumps:T _j =-15°C		-	%
(if T _{OL} <-20°C)				(if T _{OL} <-20°C)			_
Bivalent temperature	T_biv	-10.0]℃	For water-to-air heat pumps:Operation lim	it	_	°c
Degradation]	T _{ol} temperature			
coefficient	C_{dh}	0.25	-			-	-
heat pumps**							
			<u> </u>	<u> </u>			
Power consumpiton in modes other that	an 'active m	node'		Supplementary heater back-up heating capa		elbu -	kW
Off mode	P_{OFF}	0.008	kW	1	,		_
Thermostat-off mode	P _{TO}	0.045	kW	Type of energy input			٦
Crankcase heater mode	P _{CK}	0.005	kW	Standby mode		P _{SB} 0.008	kW
Other items							
Capacity control		variable]	For air-to-air heat pur air flow-rate,outdoor		4,380	m³/h
Sound power level, outdoor measured	L_{WA}	73.0	dB	For water-/brine-to-ai Rated brine or water	fiow-rate,	-	m³/h
Emissions of nitrogen oxides(if applicable)	NOx		mg/kWh fuel input	outdoor side heat exc	changer		_
GWP of the	***		GCV kgCO₂eq.				
refrigerant		675	(100years)				
			ermal syste				
** If Cdh is not determined by measure	ment then	the default	degradatio	n coefficient air condition	oners shall be 0,25.		
*** from 26 September 2018					-4	-:	
Where information relates to multi-spilt of the outdoor unit, with a combination						sis of the perform	iance
lor the outdoor unit, with a combination	or indoor di	TIII(S) TECOI	iiiieiided b	y the manufacturer of i	importer.		

FDE140VSAWVH

Model(s): FDC140VSA-W		FDE140V	/H				
Outdoor side heat exchanger of air con	ditioner :	air					
Indoor side heat exchanger of air condi	tioner :	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space	,		
3,	Prated,c	13.6	kW	cooling energy	η s,c	227.6	%
				efficiency	·		
Declared cooling capacity for part load	at airea aut	door tomp	oroturoo		fficional ratio or goo utilization off	Foionou /	l
	at giveri out	uoor terrip	eratures		fficiency ratio or gas utilization eff	-	T:
Tj and indoor 27°C/19°C(dry/wet bulb)				auxiliary energy lac	ctor for part load at given outdoor	temperati	ures ij
Ti-+35°C	Pdc	13.6	kW				Ī
Tj=+35°C	Puc	13.6	JKVV	Tj=+35°C	EERd or	269.0	%
			1		GUEc,bin / AEFc,bin		
Tj=+30°C	Pdc	10.0	kW	Tj=+30°C	EERd or	420.0	%
			,		GUEc,bin / AEFc,bin		
Tj=+25°C	Pdc	6.4	kW	Tj=+25℃	EERd or	682.0	%
			_		GUEc,bin / AEFc,bin	002.0	/0
Tj=+20°C	Pdc	3.1	kW	Tj=+20°C	EERd or	4024.0	0/
			•		GUEc,bin / AEFc,bin	1034.0	%
Degradation			1				
coefficient for	Cdc	0.25					
	Cuc		_				
air conditioners**			_				
Power consumpiton in other than 'active	e mode'						
	_	_	,			1	1
Off mode	P _{OFF}	0.008	kW	Crankcase heater		0.005	kW
Thermostat-off mode	P _{TO}	0.030	kW	Standby mode	P_{SB}	0.008	kW
Other items					·		
			_	For air-to-air air co	nditioner:	4,500	m³/h
Capacity control		variable		air flow-rate,outdoo	or measured	4,500	
			-				-
Sound power level,							
outdoor	L_{WA}	72.0	dB				
outdoor			_				
			1				
If engine driven:	NOx		mg/kWh				
Emissions of nitrogen	***	-	fuel input				
oxides			GCV				
			,				
GWP of the		675	kgCO₂eq.				
refrigerant			(100years)				
Contact details Mitsubis	hi heavy ind	dustries the	ermal systen	ns,LTD			
** If Cdc is not determined by measure					ioners shall be 0,25.		
*** from 26 September 2018			•		•		
·	oir oan-litt	noro th - t	ot rocult !	norformanas dat 1	on obtained on the hard-	eforms	
Where information relates to multi-spilt						normance	;
of the outdoor unit, with a combination	of indoor un	it(s) recom	imended by	tne manufacturer or	importer.		

Information to identify the model(s) to v	vhich the in	formation i	relates :	FDC140VSA-W /	FDE140VH		
Outdoor side heat exchanger of heat p	ump :	air					
Indoor side heat exchanger of heat pur		air					
Indication if the heater is equipped with	a supplem	nentary hea	iter :	No			
if applicable : electric motor							
Parameters shall be declared for the av	erage hea	ting seasor	n , paramet	ters for the warmer and	I colder heating seasons are		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity				Seasonal space			
	Prated,h	15.5	kW	heating energy	η s,h	166.6	%
Declared beatings are site for a set lead	-4 ! 4		0000	efficiency	-ff	4: cc :-:-	
Declared heating capacity for part load	at indoor to	emperature	20 C		of performance or gas utiliza		•
and outdoor temperature Tj				auxiliary energy facto	or for part load at given outdo	or tempe	ratures 1
T - 7°0	Dalla		TLAN	 T = 7°0	200.1		1
T _j =-7°C	Pdh	9.2	kW	T _j =-7°C	COPd or	290.0	%
T-12°C	Dale	F.C.	TLAM	T-12°C	GUEh,bin / AEFh,l		-
T _j =+2°C	Pdh	5.6	kW	T _j =+2°C	COPd or	410.0	%
T-17°C	Dale		TLAM		GUEh,bin / AEFh,l		-
T _j =+7°C	Pdh	3.6	kW	T _j =+7°C	COPd or	540.0	%
T .40°0	Dalla		TLAN	T .40%	GUEh,bin / AEFh,l		-
T _j =+12°C	Pdh	3.0	kW	T _j =+12°C	COPd or	675.0	%
T -bivalant tamananatura	Dalla	40.5	TLAN	T -hivelent	GUEh,bin / AEFh,l		-
T _{biv} =bivalent temperature	Pdh	10.5	kW	T _{biv} =bivalent	COPd or	250.0	%
T an anation time!	Dalla		TLAN	temperature	GUEh,bin / AEFh,l		-
T _{OL} =operation limit	Pdh	7.9	kW	T _{OL} =operation limit	COPd or	210.0	%
For air to water heat number:	Ddb		TLAM	For air to water boot	GUEh,bin / AEFh,l		
For air-to-water heat pumps : T _i =-15°C	Pdh	_	kW	For air-to-water heat		-	%
				pumps:T _j =-15°C	GUEh,bin / AEFh,l		j
(if T _{OL} <-20°C)				(if T _{OL} <-20°C)			
Divolent temperature	т	40.0	Ī _°				1
Bivalent temperature	T_biv	-10.0	°C	For water-to-air heat			°C
Degradation			ī	pumps:Operation lim	IIL	-	
Degradation	_	0.05		T _{ol} temperature]
coefficient	C_{dh}	0.25	-				
heat pumps**			ļ				
Power consumpiton in modes other that	n 'active m	node'		Supplementary heate	er "		1
				back-up heating capa	EIDH	-	kW
Off mode	P_{OFF}	0.008	kW			,	•
Thermostat-off mode	P _{TO}	0.045	kW	Type of energy input	5		1
Crankcase heater mode	P _{CK}	0.005	kW	Standby mode	P_{SB}	0.008	kW
	CIC	0.000	1	Ctanaby mode			J
Other items							
			_	For air-to-air heat pu		4,380	m³/h
Capacity control		variable		air flow-rate,outdoor	measured	4,300]''' /''
l			7				,
Sound power level,	L_WA	73.0	dB	For water-/brine-to-a			3/la
outdoor measured	****		l	Rated brine or water		-	m³/h
Emissions of nitrogen			mg/kWh	outdoor side heat ex	changer		J
oxides(if applicable)	NOx	l <u>.</u>	fuel input				
oxides(ii applicable)	***		GCV				
			1				
GWP of the		675	kgCO₂eq.				
refrigerant		6/5	(100years)				
				Ш			
		dustries the					
** If Cdh is not determined by measure *** from 26 September 2018	ment then	trie default	uegradatio	on coeπicient air conditi	oners shall be 0,25.		
Where information relates to multi-spilt	air conditio	oners the te	est result a	nd performance data be	e obtained on the basis of th	e perform	ance
of the outdoor unit, with a combination						o politili	
The same of the sa	uoo. u	(5) 10001		.,			

FDE125VNAWPVH

Model(s): FDC125\	/NA-W	FDE60VH (2units)				
Outdoor side heat exchanger	of air conditioner :	air				
Indoor side heat exchanger of	air conditioner :	air				
Type: vapour compression	า					
if applicable : electric m	notor					
Item	Symbol	Value Unit	Item	Symbol	Value	Unit
Rated cooling capacity			Seasonal space	•		
	Prated,c	12.5 kW	cooling energy efficiency	η s,c	294.7	%
Declared cooling capacity for p	part load at given out	door temperatures	Declared energy	y efficiency ratio or gas utilization	n efficiency /	
Tj and indoor 27°C/19°C(dry/w	ret bulb)		auxiliary energy	factor for part load at given out	door temperatu	ıres Tj
Tj=+35°C	Pdc	12.5 kW	Tj=+35°C	EERd or GUEc,bin / AEFc,bin	303.0	%
Tj=+30°C	Pdc	9.2 kW	Tj=+30°C	EERd or	487.0	%
Tj=+25°C	Pdc	5.9 kW	Tj=+25°C	GUEc,bin / AEFc,bin EERd or GUEc,bin / AEFc,bin	853.0	%
Tj=+20°C	Pdc	3.5 kW	Tj=+20°C	EERd or GUEc,bin / AEFc,bin	1995.0	%
Degradation				•		
coefficient for	Cdc	0.25				
air conditioners**						
Power consumpiton in other th		[
Off mode	P _{OFF}	0.008 kW	Crankcase heat			kW
Thermostat-off mode	P_{TO}	0.000 kW	Standby mode	P_{SB}	0.008	kW
Other items			,			
Capacity control		variable	For air-to-air air air flow-rate,out		4,500	m³/h
Sound power level,	L_WA	71.0 dB				
outdoor	-WA	71.0				
If engine driven:	NOx	mg/kWh				
Emissions of nitrogen	***	fuel input				
oxides		GCV				
GWP of the		kgCO ₂ eq.				
refrigerant		675 (100years)				
Contact details	Miteuhiehi hoova ing	dustries thermal syster	ne I TD			
** If Cdc is not determined by				nditioners shall be 0,25.		
*** from 26 September 2018		0		 -		
•	nulti-spilt air condition	ners the test result and	l performance dat	a be obtained on the basis of the	e nerformance	
of the outdoor unit, with a com					o ponomiante	
o. 3.6 Sateson unit, with a colli	daon or muoor un	ing) rosommonueu by	a.o manadolulel	с. лиропол		

Information to identify the model(s			elates :	FDC125VNA-W /	FDE60VH (2units)		
Outdoor side heat exchanger of heat	eat pump :	air					
Indoor side heat exchanger of heat Indication if the heater is equipped		air entary hea	ter ·	No			
if applicable : electric motor		0.11.0.1					
Parameters shall be declared for t	he average heat	ting seasor	n , paramet	ters for the warmer and	l colder heating seas	ons are optional.	
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	Prated,h	14.0	kW	Seasonal space heating energy efficiency	η s,h	198.8	%
Declared heating capacity for part and outdoor temperature Tj	load at indoor te	emperature	20°C	Declared coefficient of auxiliary energy factor			•
T _j =-7°C	Pdh	8.7	kW	T _j =-7°C	COPd or GUEh,bin / AEFh,I	324.0] %
T _j =+2°C	Pdh	5.3	kW	T _j =+2°C	COPd or GUEh,bin / AEFh,I	487.0	%
T _j =+7°C	Pdh	3.4	kW	T _j =+7°C	COPd or GUEh,bin / AEFh,I	655.0	%
T _j =+12°C	Pdh	3.0	kW	T _j =+12°C	COPd or GUEh,bin / AEFh,I	905.0	%
T _{biv} =bivalent temperature	Pdh	9.8	kW	T _{biv} =bivalent temperature	COPd or GUEh,bin / AEFh,I	280.0	%
T _{OL} =operation limit	Pdh	7.4	kW	T _{OL} =operation limit	COPd or GUEh,bin / AEFh,I	230.0	%
For air-to-water heat pumps : T _j =-15°C	Pdh	-	kW	For air-to-water heat pumps:T _j =-15°C (if T _{OI} <-20°C)	GUEh,bin / AEFh,I	-	%
(if T _{OL} <-20°C)				(II 1 _{OL} <-20 C)			
Bivalent temperature	T_biv	-10.0	°C	For water-to-air heat pumps:Operation lim	it	_	°C
Degradation				T _{ol} temperature			
coefficient	C_{dh}	0.25	-				
heat pumps**							
Power consumpiton in modes other	er than 'active m	ode'		Supplementary heater back-up heating capa		elbu -	kW
Off mode	P_{OFF}	0.008	kW		•		_
Thermostat-off mode	P_{TO}	0.020	kW	Type of energy input		P _{SB} 0.008	kW
Crankcase heater mode	P _{CK}	0.005	kW	Standby mode		1 SB 0.000] KVV
Other items							7
Capacity control		variable		For air-to-air heat pur air flow-rate,outdoor		4,380	m³/h
Sound power level, outdoor measured	L_WA	71.0	dB	For water-/brine-to-a Rated brine or water	fiow-rate,	-	m³/h
Emissions of nitrogen oxides(if applicable)	NOx ***		mg/kWh fuel input GCV	outdoor side heat exc	changer		ı
GWP of the refrigerant		675	kgCO ₂ eq. (100years)				
	subishi heavy inc						
** If Cdh is not determined by mea					oners shall be 0,25.		
*** from 26 September 2018 Where information relates to multi of the outdoor unit, with a combina						sis of the perform	ance

FDE125VSAWPVH

Model(s): FDC125VSA-W	/	FDE60VH	H (2units)				
Outdoor side heat exchanger of air co	nditioner :	air					
Indoor side heat exchanger of air cond	ditioner :	air					
Type : vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space			
	Prated,c	12.5	kW	cooling energy efficiency	η s,c	294.7	%
Declared cooling capacity for part load	l at given ou	tdoor tempe	eratures	Declared energy e	efficiency ratio or gas utilization eff	ficiency /	
Tj and indoor 27°C/19°C(dry/wet bulb)				auxiliary energy fa	actor for part load at given outdoor	temperati	ures Tj
Tj=+35℃	Pdc	12.5	kW	Tj=+35°C	EERd or	303.0	%
Tj=+30°C	Pdc	9.2	kW	Tj=+30°C	GUEc,bin / AEFc,bin EERd or	487.0	%
Tj=+25℃	Pdc	5.9	kW	Tj=+25°C	GUEc,bin / AEFc,bin EERd or	853.0	%
Tj=+20°C	Pdc	3.5	kW	Tj=+20°C	GUEc,bin / AEFc,bin EERd or GUEc,bin / AEFc,bin	1995.0	%
Degradation							
coefficient for	Cdc	0.25	-				
air conditioners**							
Power consumpiton in other than 'activ	ve mode'						
Off mode	P_{OFF}	0.008	kW	Crankcase heater	mode P _{CK}	0.005	kW
Thermostat-off mode	P _{TO}	0.000	kW	Standby mode	P _{SB}	800.0	kW
Other items				For air-to-air air co	anditioner:		
Capacity control		variable]	air flow-rate,outdo		4,500	m³/h
Sound power level,	1	71.0	dB				
outdoor	L_{WA}	71.0	uБ				
If engine driven:			mg/kWh				
Emissions of nitrogen	NOx ***	-	fuel input				
oxides			GCV				
GWP of the			kaco sa				
		675	kgCO ₂ eq. (100years)				
refrigerant].				
Contact details Mitsub	ishi heavy in	dustries the	ermal systen	ns.LTD			
** If Cdc is not determined by measure					tioners shall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-spil	t air conditio	ners,the tes	st result and	performance data l	be obtained on the basis of the pe	rformance	:
of the outdoor unit, with a combination							
			·				

Information to identify the model(s) to w	hich the in	formation i	relates :	FDC125VSA-W /	FDE60VH (2units)		
Outdoor side heat exchanger of heat pu	mp :	air					
Indoor side heat exchanger of heat pur		air					
Indication if the heater is equipped with	a supplem	entary hea	iter :	No			
if applicable : electric motor							
Parameters shall be declared for the av							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	Prated,h	14.0	kW	Seasonal space heating energy efficiency	η s,h	198.8	%
Declared heating capacity for part load	at indoor te	emperature	20°C		of performance or gas utiliza	tion efficie	ncy /
and outdoor temperature Tj				auxiliary energy facto	or for part load at given outdo		
T _j =-7°C	Pdh	8.7	kW	T _j =-7°C	COPd or GUEh,bin / AEFh,l	324.0	%
T _j =+2°C	Pdh	5.3	kW	T _j =+2°C	COPd or GUEh,bin / AEFh,l	487.0	%
T _j =+7°C	Pdh	3.4	kW	T _j =+7°C	COPd or GUEh,bin / AEFh,l	655.0	%
T _j =+12°C	Pdh	3.0	kW	T _j =+12°C	COPd or GUEh,bin / AEFh,l	905.0	%
T _{biv} =bivalent temperature	Pdh	9.8	kW	T _{biv} =bivalent temperature	COPd or GUEh,bin / AEFh,I	280.0	%
T _{OL} =operation limit	Pdh	7.4	kW	T _{OL} =operation limit	COPd or GUEh,bin / AEFh,l	230.0	%
For air-to-water heat pumps : T_j =-15°C (if T_{Ol} <-20°C)	Pdh	-	kW	For air-to-water heat pumps: T_j =-15°C (if $T_{Ol} <$ -20°C)	COPd or GUEh,bin / AEFh,l	-	%
Bivalent temperature	T _{biv}	-10.0]°c	For water-to-air heat			l
Degradation coefficient heat pumps**	C_{dh}	0.25	-	pumps:Operation lim T _{ol} temperature	it	-	°C
Power consumpiton in modes other that	n 'active m	ode'		Supplementary heater		_	kW
Off mode	P _{OFF}	0.008	kW	back-up heating capa	•) 1
Thermostat-off mode Crankcase heater mode	P _{TO} P _{CK}	0.020	kW kW	Type of energy input Standby mode	P_{SB}	0.008	kW
Other items							
Capacity control		variable	I	For air-to-air heat pur air flow-rate,outdoor		4,380	m³/h
Sound power level, outdoor measured	L_WA	71.0	dB	For water-/brine-to-ai Rated brine or water outdoor side heat exc	fiow-rate,	-	m³/h
Emissions of nitrogen oxides(if applicable)	NOx ***	-	mg/kWh fuel input GCV				1
GWP of the refrigerant		675	kgCO ₂ eq. (100years)				
			ermal syste				
** If Cdh is not determined by measurer *** from 26 September 2018 Where information relates to multi-spilt of the outdoor unit, with a combination of	air conditio	oners,the te	est result an	id performance data be	e obtained on the basis of th	e performa	ance

FDE140VNAWPVH

Model(s): FDC140VNA-W	/	FDE71VH	H (2units)					
Outdoor side heat exchanger of air cond	ditioner:	air						
Indoor side heat exchanger of air condit	ioner :	air						
Type: vapour compression								
if applicable : electric motor								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated cooling capacity				Seasonal space				
	Prated,c	13.6	kW	cooling energy efficiency	η s,c	279.5	%	
Declared cooling capacity for part load a	at given out	tdoor tempe	eratures	Declared energy eff	ficiency ratio or gas utilization eff	iciency /		
Tj and indoor 27°C/19°C(dry/wet bulb)				auxiliary energy factor for part load at given outdoor temperatures Tj				
						·	,	
Tj=+35°C	Pdc	13.6	kW	Tj=+35°C	EERd or	287.0	%	
			_		GUEc,bin / AEFc,bin	207.0	70	
Tj=+30°C	Pdc	10.0	kW	Tj=+30°C	EERd or	456.0	%	
			,		GUEc,bin / AEFc,bin	400.0	70	
Tj=+25°C	Pdc	6.4	kW	Tj=+25°C	EERd or	789.0	%	
			,		GUEc,bin / AEFc,bin	7 00.0	,0	
Tj=+20°C	Pdc	3.7	kW	Tj=+20°C	EERd or	2026.0	%	
			,		GUEc,bin / AEFc,bin	2020.0	,,,	
Degradation								
coefficient for	Cdc	0.25	-					
air conditioners**]					
Power consumpiton in other than 'active	mode'							
			,		,			
Off mode	P_{OFF}	0.008	kW	Crankcase heater r	·		kW	
Thermostat-off mode	P_{TO}	0.000	kW	Standby mode	P_{SB}	0.008	kW	
Other items					ı			
Canacity control		variable	1	For air-to-air air cor		4,500	m³/h	
Capacity control		variable	J	air flow-rate,outdoo	r measured			
			1					
Sound power level,	L_{WA}	72.0	dB					
outdoor			J					
If anning driven			ma m/l d A /l-					
If engine driven:	NOx	_	mg/kWh					
Emissions of nitrogen	***		fuel input					
oxides			JGCV					
GWP of the			kgCO₂eq.					
refrigerant		675	(100years)					
rengeran			.					
Contact details Mitsubisl	ni heavy in	dustries the	ermal systen	ns.LTD				
** If Cdc is not determined by measuren					oners shall be 0,25.			
*** from 26 September 2018								
Where information relates to multi-spilt a	air conditio	ners,the te	st result and	performance data he	e obtained on the basis of the pe	rformance	!	
of the outdoor unit, with a combination of								
, 3 55112110110		(-):=00/11						

Information to identify the model(s) to	which the in	nformation i	relates :	FDC140VNA-W /	FDE71VH (2units)		
Outdoor side heat exchanger of heat p		air					
Indoor side heat exchanger of heat put		air					
Indication if the heater is equipped with	n a supplen	nentary hea	iter:	No			
if applicable : electric motor							
Parameters shall be declared for the a					colder neating seasons ar		1.1-24
Rated heating capacity	Symbol	Value	Unit	Item Seasonal space	Symbol	Value	Unit
Trated fleating capacity	Prated,h	15.5	kW	heating energy	η s,h	188.8	%
	,			efficiency	., -,	100.0	
Declared heating capacity for part load	at indoor t	emperature	20°C	Declared coefficient	of performance or gas utiliz	ation efficie	ency /
and outdoor temperature Tj				auxiliary energy facto	or for part load at given outo	loor tempe	ratures Tj
							-
T _j =-7°C	Pdh	9.3	kW	T _j =-7°C	COPd or	296.0	%
			1		GUEh,bin / AEFh,I		<u> </u> ^~
T _j =+2°C	Pdh	5.6	kW	T _j =+2°C	COPd or	467.0	%
			1		GUEh,bin / AEFh,I		1
T _j =+7°C	Pdh	3.6	kW	T _j =+7°C	COPd or	628.0	%
T : 1000	.		1	T . 4000	GUEh,bin / AEFh,I	-	1
T _j =+12°C	Pdh	3.1	kW	T _j =+12°C	COPd or	867.0	%
T his related to a section.	Б. II	40.5	1	T 15 15 15 15 15	GUEh,bin / AEFh,I	-	1
T _{biv} =bivalent temperature	Pdh	10.5	kW	T _{biv} =bivalent	COPd or	260.0	%
T	Dale	7.0	l _{LAM}	temperature	GUEh,bin / AEFh,l		1
T _{OL} =operation limit	Pdh	7.9	kW	T _{OL} =operation limit	COPd or	220.0	%
For air-to-water heat pumps :	Pdh		lkW	For air-to-water heat	GUEh,bin / AEFh,l		1
T _i =-15°C	Full	_	IVAA	pumps:T _i =-15°C	GUEh,bin / AEFh,l	-	%
				1 1 1	GOEII,DIII / AEFII,I		1
(if T _{OL} <-20°C)				(if T _{OL} <-20°C)			
Bivalent temperature	T_biv	-10.0	l℃	For water-to-air heat			Т
Bivalent temperature	¹ biv	-10.0] ~	pumps:Operation lim			°C
Degradation			1	T _{ol} temperature			
coefficient	C_{dh}	0.25	_	101101111111111111111111111111111111111			1
heat pumps**	Oan	0.20					
Thous partipo			1				
Power consumpiton in modes other that	an 'active n	node'		Supplementary heate	er		kW
				back-up heating capa	acity elbu		KVV
Off mode	P_{OFF}	0.008	kW				
Thermostat-off mode	P_{TO}	0.020	kW	Type of energy input	В	0.000	
Crankcase heater mode	P_{CK}	0.005	kW	Standby mode	P_{SB}	0.008	kW
							4
Other items							
			_	For air-to-air heat pu		4,380	m³/h
Capacity control		variable	J	air flow-rate,outdoor	measured	4,300	J''' /''
			,				7
Sound power level,	L_WA	73.0	dB	For water-/brine-to-a			m³/h
outdoor measured			J	Rated brine or water outdoor side heat ex	•	-	1119/11
Emissions of nitrogen			mg/kWh	Outdoor side fleat ex	changer		1
oxides(if applicable)	NOx ***	_	fuel input				
	***		GCV .				
			-				
GWP of the		675	kgCO₂eq.				
refrigerant		0.0	(100years)				
Contact details Mitaubia	hi hoovy in	duetrice the	armal aveta	me LTD			
Contact details Mitsubis ** If Cdh is not determined by measure		dustries the			oners shall be 0.25		
*** from 26 September 2018	ment then	uic uciauli	acgraualic	on obemoient all contait	onora andii be U,ZJ.		
Where information relates to multi-spili	air conditi	oners,the te	est result a	nd performance data be	e obtained on the basis of t	he perform	ance
of the outdoor unit, with a combination							

FDE140VSAWPVH

Model(s): FDC140VSA-W	/	FDE71VH	H (2units)				
Outdoor side heat exchanger of air con-	ditioner :	air					
Indoor side heat exchanger of air condit	ioner :	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	13.6	kW	Seasonal space cooling energy efficiency	η s,c	279.5	%
Declared cooling capacity for part load a	at given ou	tdoor tempe	eratures	Declared energy eff	ficiency ratio or gas utilization eff	iciency /	
Tj and indoor 27°C/19°C(dry/wet bulb)				1	tor for part load at given outdoor	-	ures Tj
Tj=+35°C	Pdc	13.6	kW	Tj=+35°C	EERd or GUEc,bin / AEFc,bin	287.0	%
Tj=+30°C	Pdc	10.0	kW	Tj=+30°C	EERd or	456.0	%
Tj=+25°C	Pdc	6.4	kW	Tj=+25°C	GUEc,bin / AEFc,bin EERd or GUEc,bin / AEFc,bin	789.0	%
Tj=+20°C	Pdc	3.7	kW	Tj=+20°C	EERd or GUEc,bin / AEFc,bin	2026.0	%
Degradation			1				•
coefficient for	Cdc	0.25	-				
air conditioners**]				
Power consumpiton in other than 'active	e mode'	0.008	kw	Crankcase heater n	node P _{CK}	0.005	lkw
Thermostat-off mode	P _{TO}	0.000	kW	Standby mode	P _{SB}	0.008	kW
Other items			-				•
				For air-to-air air cor	nditioner:	4.500	3/la
Capacity control		variable]	air flow-rate,outdoo	r measured	4,500	m³/h
Sound power level, outdoor	L_WA	72.0	dB				
If engine driven:			mg/kWh				
Emissions of nitrogen	NOx ***	-	fuel input				
oxides			GCV				
GWP of the		675	kgCO₂eq.				
refrigerant			(100years)				
			ermal systen		onore chall be 0.25		
** If Cdc is not determined by measurer	neni inen t	ne utiduli (acgrauation	coemicient air conditio	UIIGIS SIIdii DE U,ZO.		
*** from 26 September 2018	oir oan-liti	noro th - t	ot rocult = !	norformana data t	a obtained on the best-	rform	
Where information relates to multi-spilt						rrormance	;
of the outdoor unit, with a combination of	oi indoor ur	iii(s) recom	imenaea by	uie manutacturer or i	importer.		

Information to identify the model(s) to v	vhich the ir	nformation	relates :	FDC140VSA-W /	FDE71VH (2units)		
Outdoor side heat exchanger of heat p		air					
Indoor side heat exchanger of heat pur		air					
Indication if the heater is equipped with	a supplen	nentary hea	iter :	No			
if applicable : electric motor							
Parameters shall be declared for the av	verage hea	iting seaso	n , parame	ters for the warmer and	l colder heating seasons	are optional.	
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity				Seasonal space			
	Prated,h	15.5	kW	heating energy	η s,h	188.8	%
				efficiency			
Declared heating capacity for part load	at indoor t	emperature	e 20°C		of performance or gas uti		
and outdoor temperature Tj				auxiliary energy facto	or for part load at given ou	utdoor temper	ratures Tj
			_				_
T _j =-7°C	Pdh	9.3	kW	T _j =-7°C	COPd or	296.0	%
			_		GUEh,bin / AEFh,l	290.0	/0
T _j =+2°C	Pdh	5.6	kW	T _i =+2°C	COPd or	467.0	%
			•	'	GUEh,bin / AEFh,ł	467.0	70
T _j =+7°C	Pdh	3.6	kW	T _i =+7°C	COPd or	000.0],,
'			1	'	GUEh,bin / AEFh,l	628.0	%
T _j =+12°C	Pdh	3.1	kW	T _i =+12°C	COPd or		1
', ''			1	11.,	GUEh,bin / AEFh,l	867.0	%
T _{biv} =bivalent temperature	Pdh	10.5	kW	T _{biv} =bivalent	COPd or		1
T biv bivaioni tomporataro	i dii	10.0	I	temperature	GUEh,bin / AEFh,ł	260.0	%
T _{OI} =operation limit	Pdh	7.9	kW	T _{OL} =operation limit	COPd or		1
Tol-operation limit	i dii	7.5	IKAA	I ToL-operation limit		220.0	%
For air-to-water heat pumps :	Pdh	_	kW	For air-to-water heat	GUEh,bin / AEFh,l		1
T _i =-15°C	Full	_	Ivaa	pumps:T _i =-15°C		-	%
				11: 1	GUEh,bin / AEFh,l		J
(if T _{OL} <-20°C)				(if T _{OL} <-20°C)			
Discolared to accompany	_	40.0	To.	_ , , . , ,			7
Bivalent temperature	T_{biv}	-10.0	°C	For water-to-air heat			0-
			7	pumps:Operation lim	iit	-	°C
Degradation				T _{ol} temperature]
coefficient	C_{dh}	0.25	-				
heat pumps**			ļ				
D				0			7
Power consumpiton in modes other that	an active n	iode		Supplementary heate	EIDL		kW
0# 1-	D	0.000	TLAM	back-up heating capa	acity	<u> </u>	J
Off mode	P _{OFF}	0.008	kW				7
Thermostat-off mode	P _{TO}	0.020	kW	Type of energy input	P_{SB}	0.008	kW
Crankcase heater mode	P_{CK}	0.005	kW	Standby mode	05]
Other items							7
Capacity control		verieble	ī	For air-to-air heat pur air flow-rate,outdoor		4,380	m³/h
Capacity Control		variable	1	all flow-rate,outdoor	illeasureu		J
Sound power level,			Ī	For water-/brine-to-a	ir heat numns ·		1
outdoor measured	L_{WA}	73.0	dB	Rated brine or water		_	m³/h
			1	outdoor side heat exc	*		
Emissions of nitrogen	NOv		mg/kWh		3 -		
oxides(if applicable)	NOx ***	-	fuel input				
			GCV				
			=				
			-				
GWP of the		675	kgCO₂eq.				
refrigerant		0,0	(100years)				
1000		1 (1 (1					
		dustries the			anana ahali h- 0.05		
** If Cdh is not determined by measure *** from 26 September 2018	ment then	trie default	uegradatio	on coemicient air conditi	oners snall de 0,25.		
Where information relates to multi-spilt	air conditie	oners the to	et recult a	nd nerformance data he	e obtained on the basis of	f the nerform	ance
of the outdoor unit, with a combination						ale periorili	unice
and outdoor unit, with a combination	5. 1110001 U	(3) 16601	ionaca i	o, are manaracturer or	importor.		

FDE140VNAWTVH

Outdoor side heat evehanger of air cons	litioner ·						
Outdoor side heat exchanger of air conc	illioner .	air					
Indoor side heat exchanger of air conditi	ioner:	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	13.6	kW	Seasonal space cooling energy efficiency	η s,c	279.5	%
Declared cooling capacity for part load a	it given out	door tempe	eratures	Declared energy eff	iciency ratio or gas utilization eff	iciency /	•
Tj and indoor 27°C/19°C(dry/wet bulb)		,			tor for part load at given outdoor	-	ures Tj
Tj=+35°C	Pdc	13.6	kW	Tj=+35°C	EERd or	287.0	%
Tj=+30°C	Pdc	10.0	kW	Tj=+30°C	GUEc,bin / AEFc,bin EERd or	456.0	%
Tj=+25°C	Pdc	6.4	kW	Tj=+25°C	GUEc,bin / AEFc,bin EERd or GUEc,bin / AEFc,bin	789.0	%
Tj=+20°C	Pdc	3.7	kW	Tj=+20°C	EERd or GUEc,bin / AEFc,bin	2026.0	%
Degradation							•
coefficient for	Cdc	0.25	-				
air conditioners**							
			1				
Power consumpiton in other than 'active Off mode Thermostat-off mode	mode' P_{OFF} P_{TO}	0.008	kW kW	Crankcase heater n	node P _{CK}	0.005	kW kW
Other items							1
Capacity control		variable]	For air-to-air air con air flow-rate,outdoor		4,500	m³/h
Sound power level, outdoor	L_{WA}	72.0	dB				
If engine driven:			mg/kWh				
Emissions of nitrogen	NOx ***	-	fuel input				
oxides			GCV				
GWP of the		675	kgCO ₂ eq. (100years)				
refrigerant			(Tooyeals)				
			_	<u> </u>			
Contact details Mitsubish ** If Cdc is not determined by measuren			ermal system		oners shall be 0.25		
	ioni uien l	ic uciduil (acyrauali011	occincient an condition	511013 311all DE U,20.		
*** from 26 September 2018	nir oonditi-	nore the to	ot rocult on t	norformanas data ha	a obtained on the basis of the re-	rformanca	
Where information relates to multi-spilt a						normance	;
of the outdoor unit, with a combination o	i ilidoof un	iii(s) recom	шенаеа <i>ву</i>	ine manulacturer of I	mputer.		

Information to identify the model(s) to v	vhich the ir	nformation i	relates :	FDC140VNA-W /	FDE50VH (3units)		
Outdoor side heat exchanger of heat p		air					
Indoor side heat exchanger of heat pur		air					
Indication if the heater is equipped with	a supplen	nentary hea	iter:	No			
if applicable : electric motor							
Parameters shall be declared for the av						· · · · · · · · · · · · · · · · · · ·	
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	Drotod h	15.5	kW	Seasonal space heating energy	nah	188.8	%
	Prated,h	15.5	KVV	efficiency	η s,h	100.0	70
Declared heating capacity for part load	at indoor t	emperature	20°C		of performance or ga	s utilization efficie	ency /
and outdoor temperature Tj		0			or for part load at give		
				duxillary orlorgy lacto	or for part load at give	m catacor tompo	rataroo 1j
T _j =-7°C	Pdh	9.3	kW	T _i =-7°C	COPd or		Ī.,
1,		0.0	1	1, , -	GUEh,bin / AEFh,I	296.0	%
T _j =+2°C	Pdh	5.6	kW	T _i =+2°C	COPd or	407.0	٠,
1			•	,	GUEh,bin / AEFh,I	467.0	%
T _j =+7°C	Pdh	3.6	kW	T _i =+7°C	COPd or	200.0	٠,
1,		0.0	1	1,	GUEh,bin / AEFh,I	628.0	%
T _j =+12°C	Pdh	3.1	kW	T _i =+12°C	COPd or		1
1			•	J	GUEh,bin / AEFh,I	867.0	%
T _{biv} =bivalent temperature	Pdh	10.5	kW	T _{biv} =bivalent	COPd or		1
- Biv			1	temperature	GUEh,bin / AEFh,I	260.0	%
T _{OL} =operation limit	Pdh	7.9	kW	T _{OL} =operation limit	COPd or		1
1.0[-6		- 1.0	1	OL Specialist mini	GUEh,bin / AEFh,I	220.0	%
For air-to-water heat pumps :	Pdh	_	kW	For air-to-water heat			
T _i =-15°C			1	pumps:T _i =-15°C	GUEh,bin / AEFh,I	-	%
(if T _{OL} <-20°C)				(if T _{OL} <-20°C)	,	<u> </u>	1
() ()				(ol (= 0 0)			
Bivalent temperature	T_{biv}	-10.0	°c	For water-to-air heat			Ī
	- DIV	10.0	1 -	pumps:Operation lim		_	°C
Degradation			1	T _{ol} temperature			
coefficient	C_{dh}	0.25	_	0,100.00			1
heat pumps**	oan						
licat pamps			J				
Power consumpiton in modes other that	ın 'active m	node'		Supplementary heate	er	elbu -	kW
			_	back-up heating capa	acity	- Ciba	IK V V
Off mode	P_{OFF}	0.008	kW				_
Thermostat-off mode	P_{TO}	0.020	kW	Type of energy input		P _{SB} 0.008	kW
Crankcase heater mode	P_{CK}	0.005	kW	Standby mode		SB 0.008	KVV
			_	-		-	-
Other items				For sin to sin boot mil			7
Capacity control		variable	1	For air-to-air heat pu air flow-rate,outdoor		4,380	m³/h
Capacity Control		variable	J	all flow-rate,outdoor	illeasureu		1
Sound power level,			1	For water-/brine-to-a	ir heat pumps :		Ī
outdoor measured	L_{WA}	73.0	dB	Rated brine or water		-	m³/h
			1	outdoor side heat ex	changer		
Emissions of nitrogen	NOx		mg/kWh				-
oxides(if applicable)	***	-	fuel input				
			GCV				
GWP of the			lkaco oa				
1		675	kgCO ₂ eq.				
refrigerant			(100years)				
Contact details Mitsubis	hi heavy in	dustries the	ermal syste	ms,LTD			
** If Cdh is not determined by measure					oners shall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-spilt		,		•		sis of the perform	ance
of the outdoor unit, with a combination	ot indoor u	nit(s) recor	nmended b	y the manufacturer or	ımporter.		

FDE140VSAWTVH

Model(s): FDC140VSA-W	/	FDE50VI	H (3units)				
Outdoor side heat exchanger of air con		air					
Indoor side heat exchanger of air condi	tioner :	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item .	Symbol	Value	Unit
Rated cooling capacity	5			Seasonal space			0.4
	Prated,	13.6	kW	cooling energy	η s,c	279.5	%
		1		efficiency			
Declared cooling capacity for part load	at given o	utdoor tem	peratures		ficiency ratio or gas utilization e	-	t T!
Tj and indoor 27°C/19°C(dry/wet bulb)				auxiliary energy fac	ctor for part load at given outdoo	or tempera	itures I j
Tj=+35°C	Pdc	13.6	kW	T:- 125°0	EED4		l
.,	. 40		1	Tj=+35°C	EERd or GUEc,bin / AEFc,bin	287.0	%
Tj=+30°C	Pdc	10.0	kW	Tj=+30°C	EERd or		
		<u> </u>	1	11,-100 0	GUEc,bin / AEFc,bin	456.0	%
Tj=+25°C	Pdc	6.4	kW	Tj=+25°C	EERd or		
			1		GUEc,bin / AEFc,bin	789.0	%
Tj=+20°C	Pdc	3.7	kW	Tj=+20°C	EERd or	2026.0	0/
			•		GUEc,bin / AEFc,bin	2026.0	%
Degradation							
coefficient for	Cdc	0.25	-				
air conditioners**]				
Power consumpiton in other than 'active	e mode'						
	_		,		_		1
Off mode	P _{OFF}	800.0	kW	Crankcase heater	•	0.005	kW
Thermostat-off mode	P _{TO}	0.000	kW	Standby mode	P_{SB}	0.008	kW
Other items							
other items				For air-to-air air co	nditioner:		
Capacity control		variable	1	air flow-rate,outdoo		4,500	m³/h
			-	an non rato, outube			
Sound power level,]				
outdoor	L_{WA}	72.0	dB				
			•				
If engine driven:	NO		mg/kWh				
Emissions of nitrogen	NOx ***	-	fuel input				
oxides			GCV				
			,				
GWP of the		675	kgCO ₂ eq.				
refrigerant			(100years)				
Contact details Mitsubisl	ni heavy ir	ndustrias th	ermal syste	l me I TD			
** If Cdc is not determined by measure					ditioners shall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-spilt	air conditi	oners,the t	est result a	nd performance data	a be obtained on the basis of the	e performa	ance
of the outdoor unit, with a combination							
					•		

Information to identify the model(s) to v	vhich the in	formation i	relates :	FDC140VSA-W /	FDE50VH (3units)		
Outdoor side heat exchanger of heat p	ump :	air					
Indoor side heat exchanger of heat pur		air					
Indication if the heater is equipped with	a supplem	entary hea	iter :	No			
if applicable : electric motor							
Parameters shall be declared for the av							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	Drotod b	15.5	kW	Seasonal space	noh	188.8	%
	Prated,h	15.5	KVV	heating energy	η s,h	100.0	%
Declared heating capacity for part load	at indoor to	mnerature	20°C	efficiency Declared coefficient (of performance or gas	utilization efficie	ncv /
and outdoor temperature Tj	at maoor to	Simporature	, 20 0		or for part load at given		
T _j =-7°C	Pdh	9.3	kW	T _i =-7°C	COPd or		1
.,			1		GUEh,bin / AEFh,l	296.0	%
T _j =+2°C	Pdh	5.6	kW	T _j =+2°C	COPd or	467.0	%
					GUEh,bin / AEFh,l	407.0	/0
T _j =+7°C	Pdh	3.6	kW	T _j =+7°C	COPd or	628.0	%
			,		GUEh,bin / AEFh,ł	020.0	ļ″
T _j =+12°C	Pdh	3.1	kW	T _j =+12°C	COPd or	867.0	%
			T	I <u>L</u>	GUEh,bin / AEFh,l		
T _{biv} =bivalent temperature	Pdh	10.5	kW	T _{biv} =bivalent	COPd or	260.0	%
	Б. II		T	temperature	GUEh,bin / AEFh,l		
T _{OL} =operation limit	Pdh	7.9	kW	T _{OL} =operation limit	COPd or	220.0	%
For air-to-water heat pumps :	Pdh	-	kW	For air-to-water heat	GUEh,bin / AEFh,l		
T_i =-15°C	ruii		IVAA	pumps:T _j =-15°C	GUEh,bin / AEFh,l	-	%
(if T _{OI} <-20°C)					GUEII,DIII / AEFII,I		J
(II T _{OL} <-20 C)				(if T _{OL} <-20°C)			
Bivalent temperature	T_biv	-10.0	°c	For water-to-air heat			1
Bivalent temperature	* biv	-10.0	1 ~	pumps:Operation lim	it	_	∞
Degradation			Ī	T _{ol} temperature	IL.		
coefficient	C_{dh}	0.25	_	1 of tomporataro			1
heat pumps**	Oan	0.20					
noat pampo		ļ	1				
Davier consumeritor in reader other tha	un la ativa un	a da!		Cumula manuta mula nata			1
Power consumpiton in modes other that	in active in	loue		Supplementary heater back-up heating capa		bu -	kW
Off mode	P_{OFF}	0.008	kW	back up ricating capt	acity	<u> </u>	J
Thermostat-off mode	P _{TO}		kW	Type of energy input			1
Crankcase heater mode	P _{CK}		kW	Standby mode	Р	SB 0.008	kW
Orankease neater mode	· CK	0.003	Ivaa	Standby mode			J
Other items							1
Capacity control		vorich!-	,	For air-to-air heat pur air flow-rate,outdoor		4,380	m³/h
Capacity control		variable	1	all flow-rate,outdoor	illeasureu		J
Sound power level,		70.0	J.D.	For water-/brine-to-ai	ir heat pumps :		1
outdoor measured	L_{WA}	73.0	dB	Rated brine or water		-	m³/h
				outdoor side heat exc	changer		
Emissions of nitrogen	NOx		mg/kWh				
oxides(if applicable)	***	-	fuel input				
			GCV				
GWP of the			kgCO₂eq.				
refrigerant		675	(100years)				
<u> </u>			,				
			ermal syste				
** If Cdh is not determined by measure	ment then	the default	degradatio	n coefficient air condition	oners shall be 0,25.		
*** from 26 September 2018 Where information relates to multi-spilt	air conditio	nare tha to	et recult or	nd nerformance date be	a obtained on the bosis	of the perform	ance
of the outdoor unit, with a combination						or the perioritie	uiioo
c oataoor arm, with a combination	J. 1114001 UI	(5) 10001		,o manaraotaror or i			

Models FDE50VH, 60VH, 71VH, 100VH, 125VH, 140VH

Model(s): FDE50VH							
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Unit
Cooling capacity (sensible)	$P_{rated,c}$	3.8	kW	Total electric power input	P_{elec}	0.050	kW
Cooling capacity (latent)	P _{rated,c}	1.2	kW	Sound power level (per speed setting,if applicable)	L_{WA}	60.0	dB
Heating capacity	$P_{rated,h}$	5.4	kW				
Contact details	Mitsubishi	heavy ind	ustries the	ermal systems,LTD			

Model(s): FDE60VH							
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Unit
Cooling capacity (sensible)	$P_{\text{rated,c}}$	5.0	kW	Total electric power input	P_{elec}	0.080	kW
Cooling capacity (latent)	P _{rated,c}	0.6	kW	Sound power level (per speed setting,if applicable)	L_{WA}	60.0	dB
Heating capacity	$P_{\text{rated},h}$	6.7	kW				
Contact details	Mitsubishi	heavy ind	ustries the	ermal systems,LTD			

Model(s): FDE71VH										
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Unit			
Cooling capacity (sensible)	$P_{rated,c}$	5.6	kW	Total electric power input	P _{elec}	0.080	kW			
Cooling capacity (latent)	$P_{\text{rated,c}}$	1.5	kW	Sound power level (per speed setting,if applicable)	L _{WA}	60.0	dB			
Heating capacity	$P_{\text{rated,h}}$	8.0	kW							
Contact details	Mitsubishi I	litsubishi heavy industries thermal systems,LTD								

Model(s): FDE100VH									
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Unit		
Cooling capacity (sensible)	$P_{\text{rated,c}}$	8.4	kW	Total electric power input	P _{elec}	0.130	kW		
Cooling capacity (latent)	P _{rated,c}	1.6	kW	Sound power level (per speed setting,if applicable)	L_{WA}	64.0	dB		
Heating capacity	$P_{\text{rated,h}}$	11.2	kW						
Contact details	Mitsubishi	Alitsubishi heavy industries thermal systems,LTD							

Model(s): FDE125VH									
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Unit		
Cooling capacity (sensible)	$P_{rated,c}$	9.3	kW	Total electric power input	P_{elec}	0.130	kW		
Cooling capacity (latent)	$P_{\text{rated,c}}$	3.2	kW	Sound power level (per speed setting,if applicable)	L_WA	64.0	dB		
Heating capacity	$P_{rated,h}$	14.0	kW						
Contact details	Mitsubishi	litsubishi heavy industries thermal systems,LTD							

Model(s): FDE140VH									
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	U		
Cooling capacity (sensible)	$P_{rated,c}$	10.2	kW	Total electric power input	P _{elec}	0.140	k۱		
Cooling capacity (latent)	P _{rated,c}	3.8	kW	Sound power level (per speed setting,if applicable)	L_{WA}	65.0	dE		
Heating capacity	$P_{\text{rated},h}$	16.0	kW						
Contact details	Mitsubishi	litsubishi heavy industries thermal systems,LTD							

(6) Wall mounted type (SRK)

SRK100VNAWZR

Information to identify the mode Indoor unit model name Outdoor unit model name	el(s) to which the in SRK1002 FDC100V	R-W	relates to:	information relates to. Indicated value	cludes heating: Indicate the heating season the elates to. Indicated values should relate to one on at a time. Include at least the heating season 'A		
Function(indicate if present)				Average(mandatory)	Yes		
cooling	Yes			Warmer(if designated)	No		
heating	Yes			Colder(if designated)	No		
Item	symbol	value	unit	Item		value	class
Design load			7	Seasonal efficiency and energy effici			
cooling	Pdesigno		kW	cooling	SEER	6.13	A++
heating / Average heating / Warmer	Pdesignh Pdesignh		kW kW	heating / Average heating / Warmer	SCOP/A SCOP/W	4.33	A+ -
heating / Colder	Pdesignh		kW	heating / Warrier	SCOP/W		-
ricating / Colder	i designin		IKVV	ricating / Golder	000170	_	unit
Declared capacity at outdoor to	mperature Tdesign	nh		Back up heating capacity at outdoor	temperature '	Tdesignh	
heating / Average (-10°C)	Pdh	8.50	kW	heating / Average (-10°C)	elbu	Ő	kW
heating / Warmer (2°C)	Pdh	-	kW	heating / Warmer (2°C)	elbu	-	kW
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	-	kW
		07(10)	00 1	(D) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C		1 07/	10\00
Declared capacity for cooling, a	at indoor temperatu	ire 27(19)	oc and	Declared energy efficiency ratio, at ir	ndoor tempera	ature 27(1	19) C and
outdoor temperature Tj Tj=35°C	Pdc	10.00	1kW	outdoor temperature Tj Ti=35°C	EERd	3.10	Т
Tj=30°C	Pdc	7.37	kW	Tj=30°C	EERd	4.95	+[
Tj=25°C	Pdc	4.74	kW	Tj=25℃	EERd	7.75	- 1_
Tj=20°C	Pdc	3.00	kW	Tj=20°C	EERd	10.05	1_
Declared capacity for heating /	Average season, a	t indoor		Declared coefficient of performance	/ Average sea	ason, at ir	ndoor
temperature 20°C and outdoor			.	temperature 20°C and outdoor temperature			-
Tj=-7°C	Pdh	7.36	kW	Tj=-7°C	COPd	2.75	
Tj=2°C	Pdh	4.47	kW	Tj=2°C	COPd	4.18	
Tj=7°C	Pdh Pdh	2.88	kW kW	Tj=7°C Tj=12°C	COPd	5.74	
Tj=12°C Tj=bivalent temperature	Pdh	2.95 8.50	kW	Tj=12 C Tj=bivalent temperature	COPd COPd	7.46 2.77	+[
Tj=blvalent temperature Tj=operating limit	Pdh	6.30	kW	Tj=operating limit	COPd	2.10	
ij operating iiiiit		0.00	j.v.v.	ij opolating iiiin	00. 0		
Declared capacity for heating /	Warmer season, a	t indoor		Declared coefficient of performance	/ Warmer sea	son, at in	door
temperature 20°C and outdoor	temperature Tj		_	temperature 20°C and outdoor temperature			_
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-]-
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	վ-
Tj=bivalent temperature Tj=operating limit	Pdh Pdh	-	kW kW	Tj=bivalent temperature Tj=operating limit	COPd COPd	-	
1j-operating limit	Full	-	KVV	IJ-operating limit	COFU		<u></u>
Declared capacity for heating /		indoor		Declared coefficient of performance		on, at ind	oor
temperature 20°C and outdoor			71.34/	temperature 20°C and outdoor temperature			7
Tj=-7°C	Pdh	-	kW	Tj=-7°C	COPd	-	
Tj=2°C Tj=7°C	Pdh Pdh	-	kW kW	Tj=2°C Tj=7°C	COPd COPd	-	- 1
Tj=7 C	Pdh	-	kW	Tj=12°C	COPd	-	+[
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	†_
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	1-
Tj=-15℃	Pdh	-	kW	Tj=-15°C	COPd	-	1-
Bivalent temperature	1		٦.	Operating limit temperature			-
heating / Average	Tbiv	-10	°C	heating / Average	Tol	-20	°C
heating / Warmer	Tbiv	-	°C	heating / Warmer	Tol	-	<u>°</u> C
heating / Colder	Tbiv	-	°C	heating / Colder	Tol	-	°C
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pcycc	-	kW	for cooling	EERcvc	-	7₋
for heating	Pcych	-	kW	for heating	COPcyc	-	1-
Ü							
Degradation coefficient				Degradation coefficient			_
cooling	Cdc	0.25	-	heating	Cdh	0.25	-
Electric power input in power moff mode			e [·] Iw	Annual electricity consumption cooling	000	571	TkWh/a
standby mode	Poff Psb	7	-lw	heating / Average	Qce Qhe	2746	kWh/a
thermostat-off mode	Pto(cooling)	30	∃₩ l	heating / Warmer	Qhe	-	kWh/a
	Pto(heating)	30	W	heating / colder	Qhe	-	kWh/a
crankcase heater mode	Pck	5	W				4
	· · · · · · · · · · · · · · · · · · ·			100			
Capacity control(indicate one o	t three options)			Other items	Luca		Tan(A)
				Sound power level(indoor) Sound power level(outdoor)	Lwa Lwa	63 69	dB(A) dB(A)
fixed	No			Global warming potential	GWP	675	kgCO₂eq.
staged	No			Rated air flow(indoor)	-	1470	m³/h
variable	Yes			Rated air flow(outdoor)	-	4500	m³/h
Contact details for obtaining				er or of its authorised representative.			
more information				tioning Europe, Ltd.			
	5 The Square, Sto	оскіеу Ра	rk, Uxbridg	e, Middlesex,UB11 1ET, United kingdo	om		

SRK100VSAWZR

Information to identify the model(s)	to which the in	formation rela	ates to:	If function includes heating: Indicate the	ne heating s	season the	
Indoor unit model name	SRK100Z	R-W		information relates to. Indicated value	s should rela	ate to one	
Outdoor unit model name	FDC100V	SA-W		heating season at a time. Include at lea	st the heating	ng season '	'Average'.
Function(indicate if present)				Average(mandatory)	Yes		
cooling	Yes			Warmer(if designated)	No		
heating	Yes			Colder(if designated)	No		
Item	symbol	value uni	iŧ	Item	symbol	value	class
Design load	Зуппоп	value un		Seasonal efficiency and energy efficie		value	Ciass
cooling	Pdesigno	10.0 kW		cooling	SEER	6.13	A++
heating / Average	Pdesignh	8.50 kW		heating / Average	SCOP/A SCOP/W	4.33	A+
heating / Warmer heating / Colder	Pdesignh Pdesignh	- kW		heating / Warmer heating / Colder	SCOP/W		-
						•	unit
Declared capacity at outdoor temper			,	Back up heating capacity at outdoor to			Trans
heating / Average (-10°C) heating / Warmer (2°C)	Pdh Pdh	8.50 kW		heating / Average (-10°C) heating / Warmer (2°C)	elbu elbu	-	kW kW
heating / Colder (-22°C)	Pdh	- kW		heating / Colder (-22°C)	elbu	-	kW
		0=/40\0=					
Declared capacity for cooling, at incoutdoor temperature Tj	Joor temperatu	re 27(19)°C a	and	Declared energy efficiency ratio, at incoutdoor temperature Tj	loor temper	ature 27(1	9)°C and
Ti=35°C	Pdc	10.00 kW	,	Ti=35°C	EERd	3.10]_
Tj=30°C	Pdc	7.37 kW	/	Tj=30°C	EERd	4.95]-
Tj=25°C	Pdc	4.74 kW		Tj=25°C	EERd	7.75	-
Tj=20°C	Pdc	3.00 kW	V	Tj=20°C	EERd	10.05	<u> -</u>
Declared capacity for heating / Ave	rage season, a	t indoor		Declared coefficient of performance /	Average se	ason, at in	door
temperature 20°C and outdoor tem				temperature 20°C and outdoor temper			,
Tj=-7°C Ti=2°C	Pdh Pdh	7.36 kW 4.47 kW		Tj=-7°C Tj=2°C	COPd COPd	2.75 4.18	ŀ
Ti=7°C	Pdh	2.88 kW		Tj=2°C	COPd	5.74	[
Tj=12℃	Pdh	2.95 kW		Tj=12°C	COPd	7.46]-
Tj=bivalent temperature	Pdh	8.50 kW		Tj=bivalent temperature	COPd	2.77	<u> </u> -
Tj=operating limit	Pdh	6.30 kW	v	Tj=operating limit	COPd	2.10	<u> -</u>
Declared capacity for heating / Wa	mer season, a	t indoor		Declared coefficient of performance /	Warmer sea	ason, at in	door
temperature 20°C and outdoor tem				temperature 20°C and outdoor temper			1
Tj=2°C Tj=7°C	Pdh Pdh	- kW		Tj=2°C Tj=7°C	COPd COPd	-	Ė
Tj=12°C	Pdh	- kW		Tj=12°C	COPd	-	[_
Tj=bivalent temperature	Pdh	- kW		Tj=bivalent temperature	COPd	-]-
Tj=operating limit	Pdh	- kW	/	Tj=operating limit	COPd	-	-
Declared capacity for heating / Colo	der season, at	indoor	\neg	Declared coefficient of performance /	Colder seas	son, at ind	oor
temperature 20°C and outdoor tem				temperature 20°C and outdoor temper			_
Tj=-7°C	Pdh	- kW		Tj=-7°C	COPd	-	-
Tj=2°C Tj=7°C	Pdh Pdh	- kW		Tj=2°C Tj=7°C	COPd COPd	-	-
Tj=12°C	Pdh	- kW		Tj=12°C	COPd	-	1-
Tj=bivalent temperature	Pdh	- kW		Tj=bivalent temperature	COPd	-]-
Tj=operating limit Tj=-15°C	Pdh Pdh	- kW		Tj=operating limit Tj=-15°C	COPd COPd	-	1
1]10 0	i dii	- 100	·	1]10 0	- 001 u		
Bivalent temperature				Operating limit temperature			10-
heating / Average heating / Warmer	Tbiv Tbiv	10 °C - °C		heating / Average heating / Warmer	Tol Tol	-20	ြိုင လ
heating / Warrier	Tbiv	_ -		heating / Warrier	Tol	-	.c
						·	
Cycling interval capacity	Deves	144	,	Cycling interval efficiency	CCD ava		1
for cooling for heating	Pcycc Pcych	- kW		for cooling for heating	EERcyc COPcyc	-	-
To reading	1 0 9 0 1 1	100		To reduing			
Degradation coefficient				Degradation coefficient			1
cooling	Cdc	0.25 -		heating	Cdh	0.25	-
Electric power input in power mode	s other than 'a	ctive mode'		Annual electricity consumption			
off mode	Poff	7 W		cooling	Qce	571	kWh/a
standby mode thermostat-off mode	Psb	7 W 30 W		heating / Average heating / Warmer	Qhe	2746	kWh/a kWh/a
thermostat-on mode	Pto(cooling) Pto(heating)	30 W 30 W		heating / warrier	Qhe Qhe	-	kWh/a
crankcase heater mode	Pck	5 W					
	4:>	•		Coth - a it - a -			
Capacity control(indicate one of thr	ee options)			Other items Sound power level(indoor)	Lwa	63	dB(A)
				Sound power level(outdoor)	Lwa	69	dB(A)
fixed	No			Global warming potential	GWP	675	kgCO₂eq.
staged variable	No Yes			Rated air flow(indoor) Rated air flow(outdoor)	-	1470 4500	m³/h m³/h
variable	1 162			Nated all How(butdool)		1 4000	pu /II
				er or of its authorised representative.			
				ioning Europe, Ltd. e, Middlesex,UB11 1ET, United kingdor	m		
	no oquare, ou	JUNIEY FAIN, L	Sabriuge	c, wilddiesex,obii iEi, Ollited Killyddi	"		

SRK100VNAWPZSX

Information to identify the model(s	s) to which the in	formation relate	es to:	If function includes heating: Indicate	the heating s	season the	1
Indoor unit model name	SRK50ZS	X-W (x2 units)		information relates to. Indicated value	es should rel	ate to one	
Outdoor unit model name	FDC100V	NA-W		heating season at a time. Include at le	ast the neatir	ng season	'Average'.
Function(indicate if present)				Average(mandatory)	Yes		
cooling	Yes		_	Warmer(if designated)	No		
heating	Yes			Colder(if designated)	No		
Item	symbol	value unit		Item	symbol	value	class
Design load	Delasions	10.0 kW		Seasonal efficiency and energy effici		7.05	
cooling heating / Average	Pdesignc Pdesignh	10.0 kW 8.50 kW		cooling heating / Average	SEER SCOP/A	7.05 4.47	A++ A+
heating / Warmer	Pdesignh	- kW		heating / Warmer	SCOP/W		-
heating / Colder	Pdesignh	- kW		heating / Colder	SCOP/C	-	-
Declared capacity at outdoor tem	perature Tdesign	nh	\neg	Back up heating capacity at outdoor	temperature	Tdesignh	unit
heating / Average (-10°C)	Pdh	8.50 kW		heating / Average (-10°C)	elbu	0	kW
heating / Warmer (2°C)	Pdh	- kW		heating / Warmer (2°C)	elbu	-	kW
heating / Colder (-22°C)	Pdh	- kW		heating / Colder (-22°C)	elbu	-	kW
Declared capacity for cooling, at i	indoor temperatu	re 27(19)°C and	d	Declared energy efficiency ratio, at in	idoor temper	ature 27(1	9)°C and
outdoor temperature Tj				outdoor temperature Tj			
Tj=35°C Tj=30°C	Pdc Pdc	10.00 kW 7.37 kW		Tj=35°C Ti=30°C	EERd EERd	3.46 5.30	ļ-
Tj=30 C	Pdc	4.74 kW		Tj=30 C Tj=25°C	EERd	9.20	-
Tj=20°C	Pdc	3.58 kW		Tj=20°C	EERd	15.30	1
Deeless describe for booking / A.		4 !		Declared as efficient of a of succession	/ A		d
Declared capacity for heating / Avtemperature 20°C and outdoor ter		it indoor		Declared coefficient of performance temperature 20°C and outdoor and outdoor an		ason, at in	door
Tj=-7°C	Pdh	7.40 kW		Tj=-7°C	COPd	3.06]-
Tj=2°C	Pdh	4.50 kW		Tj=2°C	COPd	4.28]-
Tj=7°C Tj=12°C	Pdh	2.90 kW 2.93 kW		Tj=7°C Ti=12°C	COPd	5.86	<u> </u> -
Tj=12 C Tj=bivalent temperature	Pdh Pdh	2.93 kW 8.50 kW		Tj=12 C Tj=bivalent temperature	COPd COPd	7.55 2.40	1
Tj=operating limit	Pdh	6.30 kW		Tj=operating limit	COPd	2.00	-
Declared assessment for heading (MA		4 :	_	Declared as efficient of a reference	/ / / /		
Declared capacity for heating / W temperature 20°C and outdoor ter		t iridoor		Declared coefficient of performance temperature 20°C and outdoor and outdoor an		ason, at in	door
Tj=2°C	Pdh	- kW		Tj=2°C	COPd	-]-
Tj=7°C	Pdh	- kW		Tj=7°C	COPd	-]-
Tj=12°C Tj=bivalent temperature	Pdh Pdh	- kW - kW		Tj=12°C Tj=bivalent temperature	COPd COPd	-	ŀ
Tj=operating limit	Pdh	- kW		Tj=operating limit	COPd	-	[_
		<u>'</u>					
Declared capacity for heating / Co temperature 20°C and outdoor ten		indoor		Declared coefficient of performance temperature 20°C and outdoor 20°C and outdoor 20°C and outdoor 20°C and outdoor 20°C and outdoor 20°C and outdoor 20°C and outdoor 20°C and outdoor 20°C a		son, at ind	oor
Ti=-7°C	Pdh	- kW		Tj=-7°C	COPd	-	1-
Tj=2°C	Pdh	- kW		Tj=2°C	COPd	-	-
Tj=7°C	Pdh	- kW		Tj=7°C	COPd	-	-
Tj=12°C Tj=bivalent temperature	Pdh Pdh	- kW - kW		Tj=12°C Tj=bivalent temperature	COPd COPd	-	-
Tj=operating limit	Pdh	- kW		Tj=operating limit	COPd	-	 -
Tj=-15°C	Pdh	- kW		Tj=-15°C	COPd	-]
Bivalent temperature			_	Operating limit temperature			
heating / Average	Tbiv	-10 °C		heating / Average	Tol	-20]℃
heating / Warmer	Tbiv	- °C		heating / Warmer	Tol	-	°C
heating / Colder	Tbiv	- ℃		heating / Colder	Tol	-	°C
Cycling interval capacity			\neg	Cycling interval efficiency			
for cooling	Pcycc	- kW		for cooling	EERcyc	-]-
for heating	Pcych	- kW		for heating	COPcyc	-	-
Degradation coefficient			$\overline{}$	Degradation coefficient			
cooling	Cdc	0.25 -		heating	Cdh	0.25	1-
		•	=				
Electric power input in power mod off mode	des other than 'ad Poff	ctive mode' 10 W		Annual electricity consumption cooling	000	497	kWh/a
standby mode	Psb	10 W		heating / Average	Qce Qhe	2661	kWh/a
thermostat-off mode	Pto(cooling)	50 W		heating / Warmer	Qhe	-	kWh/a
l	Pto(heating)	65 W		heating / colder	Qhe	-	kWh/a
crankcase heater mode	Pck	5 W					
Capacity control(indicate one of the	hree options)		\neg	Other items			
				Sound power level(indoor)	Lwa	59	dB(A)
fived	No		_	Sound power level(outdoor)	Lwa GWP	69	dB(A)
fixed staged	No No		\dashv	Global warming potential Rated air flow(indoor)	-	675 858	kgCO₂eq. m³/h
variable	Yes			Rated air flow(outdoor)	-	4500	m³/h
Contact details for obtaining I h	lame and address	e of the manufa	acturo	er or of its authorised representative.			
				ioning Europe, Ltd.			
				e, Middlesex,UB11 1ET, United kingdo	om		
<u> </u>							

SRK100VSAWPZSX

Information to identify the model(s)							
Indoor unit model name Outdoor unit model name	SRK50ZS FDC100V		units)	information relates to. Indicated value heating season at a time. Include at le			
Function(indicate if present)				Average(mandatory)	Yes		
cooling	Yes			Warmer(if designated)	No		
heating	Yes			Colder(if designated)	No		
Item	symbol	value	unit	Item	symbol	value	class
Design load cooling	Pdesigno	10.0	1kW	Seasonal efficiency and energy efficiency cooling	ciency class SEER	7.05	A++
heating / Average	Pdesignh		kW	heating / Average	SCOP/A	4.47	A+
heating / Warmer	Pdesignh	-	kW	heating / Warmer	SCOP/W		-
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C	-	- '4
Declared capacity at outdoor temper	erature Tdesign	nh		Back up heating capacity at outdoor	temperature	Tdesignh	unit
heating / Average (-10°C)	Pdh	8.50	kW	heating / Average (-10°C)	elbu	0	kW
heating / Warmer (2°C)	Pdh	-	kW	heating / Warmer (2°C)	elbu	-	kW
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	-	kW
Declared capacity for cooling, at inc	door temperatu	re 27(19)	°C and	Declared energy efficiency ratio, at i	ndoor temper	ature 27(1	9)°C and
outdoor temperature Tj				outdoor temperature Tj			-
Tj=35°C Tj=30°C	Pdc Pdc	7.37	kW kW	Tj=35°C Ti=30°C	EERd	3.46 5.30	-
Tj=30 C	Pdc	4.74	kW	Tj=30 C	EERd EERd	9.20	[
Tj=20°C	Pdc	3.58	kW	Tj=20°C	EERd	15.30	-
Declared capacity for heating / Ave temperature 20°C and outdoor 20°C and outdoor 20°C and outdoor 20°C and outdoor 20°C and outdoor 20°C and outdoor 20°C and outdoor 20°C and outdoor 20°C a		at indoor		Declared coefficient of performance temperature 20°C and outdoor temp		ason, at in	idoor
Ti=-7°C	Pdh	7.40	kW	Ti=-7°C	COPd	3.06	1-
Tj=2°C	Pdh	4.50	kW	Tj=2°C	COPd	4.28]-
Tj=7°C	Pdh	2.90	kW	Tj=7°C	COPd	5.86	-
Tj=12°C Tj=bivalent temperature	Pdh Pdh	2.93 8.50	kW kW	Tj=12°C Ti=bivalent temperature	COPd COPd	7.55 2.40	-
Tj=operating limit	Pdh	6.30	kW	Tj=operating limit	COPd	2.00	-
Declared capacity for heating / War temperature 20°C and outdoor temp		it indoor		Declared coefficient of performance temperature 20°C and outdoor temp		ason, at in	door
Tj=2°C	Pdh		kW	Ti=2°C	COPd	-	1-
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	1-
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-]-
Tj=bivalent temperature Tj=operating limit	Pdh Pdh	-	kW kW	Tj=bivalent temperature Tj=operating limit	COPd COPd	-	1
rj-operating innit	1 411		KVV	1)-operating limit	001 u		
Declared capacity for heating / Cold		indoor		Declared coefficient of performance		on, at ind	oor
temperature 20°C and outdoor and outdoor and outdo	perature Tj Pdh		lkW	temperature 20°C and outdoor temp	erature Tj COPd	-	1
Ti=2°C	Pdh	<u> </u>	kW	Tj=2°C	COPd	-	1_
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	1-
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	-
Tj=bivalent temperature Tj=operating limit	Pdh Pdh	-	kW kW	Tj=bivalent temperature Tj=operating limit	COPd COPd	-	1
Ti=-15°C	Pdh	-	kW	Tj=-15°C	COPd	-	-
Bivalent temperature heating / Average	Tbiv	-10	1 ℃	Operating limit temperature heating / Average	Tol	-20]°c
heating / Warmer	Tbiv	-10	°C	heating / Warmer	Tol	-20	°C
heating / Colder	Tbiv	-	°C	heating / Colder	Tol	-	°C
Overline internel conseit.				Outline internal officion			
Cycling interval capacity for cooling	Pcycc		lkW	Cycling interval efficiency for cooling	EERcyc		1_
for heating	Pcych	-	kW	for heating	COPcyc	-	1-
Degradation coefficient cooling	Cdc	0.25	ا ،	Degradation coefficient heating	Cdh	0.25	1_
Cooming	Cuc	0.23	I-	neating	Cuii	0.23	
Electric power input in power mode				Annual electricity consumption			,
off mode standby mode	Poff Psb	10	W	cooling heating / Average	Qce Qhe	497 2661	kWh/a kWh/a
thermostat-off mode	Pto(cooling)	50	w	heating / Warmer	Qhe	-	kWh/a
	Pto(heating)	65	W	heating / colder	Qhe	-	kWh/a
crankcase heater mode	Pck	5	W				
Capacity control(indicate one of three	ee options)			Other items			
	,			Sound power level(indoor)	Lwa	59	dB(A)
				Sound power level(outdoor)	Lwa	69	dB(A)
fixed staged	No No			Global warming potential Rated air flow(indoor)	GWP	675 858	kgCO₂eq. m³/h
variable	Yes			Rated air flow(indoor) Rated air flow(outdoor)	-	4500	m³/h
	'			` <u> </u>			
				er or of its authorised representative.			_
				tioning Europe, Ltd. e, Middlesex,UB11 1ET, United kingd	om		
	,		,	, , , , , , , , , , , , , , , , , , , ,			

SRK125VNAWPZSX

Model(s): FDC125VNA-W	/ SRK60ZSX-W	(x2 units)					
Outdoor side heat exchanger of air cor	nditioner :	air					
Indoor side heat exchanger of air cond	litioner :	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space	cooling energy		
	Prated,c	12.5	kW	efficiency ηs,c		295.4	%
		ļ					
Declared cooling capacity for part load	l at given outdoor	r temperatu	ıres	Declared energy	y efficiency ratio or gas utilization of	efficiency /	
Tj and indoor 27°C/19°C(dry/wet bulb)				auxiliary energy	factor for part load at given outdo	or temperatures	Tj
			٦				1
Tj=+35°C	Pdc	12.5	kW	Tj=+35°C	EERd or	276.0	%
T: .0000	D.I.		J		GUEc,bin / AEFc,bin		
Tj=+30°C	Pdc	9.2	kW	Tj=+30°C	EERd or	480.0	%
Ti-+35°C	Pdc	5.9	kw		GUEc,bin / AEFc,bin		
Tj=+25°C	Fuc	5.5	T _V vv	Tj=+25°C	EERd or	880.0	%
 Tj=+20°C	Pdc	3.4	kW		GUEc,bin / AEFc,bin		
1]-120 0	i uc	3.4		Tj=+20°C	EERd or	2130.0	%
			1		GUEc,bin / AEFc,bin		J
Degradation	0.1	0.25					
coefficient for	Cdc	0.25	-				
air conditioners**			J				
Power consumption in other than 'activ	ra mada!						
Power consumpiton in other than 'activ	re mode						
Off mode	P _{OFF}	0.008	kW	Crankcase heat	er mode P _{CK}	0.005	kW
Thermostat-off mode	P _{TO}	0.000	kW	Standby mode	P _{SB}	0.008	kW
			_				J
Other items							
				For air-to-air air	conditioner:	4500	m³/h
Capacity control		variable]	air flow-rate,out	door measured	4500	1111-711
							."
Sound power level,	L_WA	71.0	dB				
outdoor	LWA	71.0	ub.				
			_				
If engine driven:	NO		mg/kWh				
Emissions of nitrogen	NOx ***	-	fuel input				
oxides			GCV				
			,				
GWP of the		675	kgCO₂eq.				
refrigerant			(100years)				
	ubishi heavy indu						
** If Cdc is not determined by measure	ement then the de	etault degra	adation coeffi	cient air condition	ers shall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-spil	t air conditioners,	the test re	sult and perfo	ormance data be o	obtained on the basis of the perform	mance	
of the outdoor unit, with a combination	of indoor unit(s)	recommen	ided by the m	anufacturer or im	porter.		

Information to identify the model(s) to which th	e information	relates :		FDC125VN	A-W / SRK60ZSX-W (x	x2 units)				
Outdoor side heat exchanger of heat pump :		air								
Indoor side heat exchanger of heat pump : air										
Indication if the heater is equipped with a supp	lementary hea	ater :		١	lo					
if applicable : electric motor										
Parameters shall be declared for the average I	neating seaso	n , paramete	ers for the w	varmer and o	older heating seasons	are optional.				
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit		
Rated heating capacity					Seasonal space heating	ng energy efficiency ηs,h				
	Prated,h	14.0	kW				192.5	%		
Declared heating capacity for part load at indo	or temperatur	e 20°C			Declared coefficient of	f performance or gas utilization efficie	ency /			
and outdoor temperature Tj					auxiliary energy factor	for part load at given outdoor tempe	ratures Tj			
T _j =-7°C	Pdh	8.7	kW		T _j =-7°C	COPd or	310.0	%		
			-			GUEh,bin / AEFh,bin	010.0	,,,		
T _j =+2°C	Pdh	5.3	kW		T _j =+2°C	COPd or	458.0	%		
			•			GUEh,bin / AEFh,bin	400.0	, , ,		
T _j =+7°C	Pdh	3.4	kW		T _j =+7°C	COPd or	671.0	%		
						GUEh,bin / AEFh,bin	01.110	, ,		
T _j =+12°C	Pdh	3.0	kW		T _j =+12°C	COPd or	944.0	%		
			i			GUEh,bin / AEFh,bin				
T _{biv} =bivalent temperature	Pdh	9.8	kW		T _{biv} =bivalent	COPd or	270.0	%		
			1		temperature	GUEh,bin / AEFh,bin				
T _{OL} =operation limit	Pdh	7.4	kW		T _{OL} =operation limit	COPd or	210.0	%		
			i			GUEh,bin / AEFh,bin				
For air-to-water heat pumps :	Pdh	-	kW		For air-to-water heat	COPd or	_	%		
T _j =-15°C					pumps:T _j =-15°C	GUEh,bin / AEFh,bin				
(if T _{OL} <-20°C)					(if T _{OL} <-20°C)					
			ı							
Bivalent temperature	T _{biv}	-10.0	°C		For water-to-air heat					
					pumps:Operation limit		-	°C		
Degradation					T _{ol} temperature					
coefficient	C_{dh}	0.25	-							
heat pumps**										
				_						
Power consumpiton in modes other than 'activ	e mode'				Supplementary heater	elbu	-	kW		
			ı		back-up heating capac	city				
Off mode	P _{OFF}		kW							
Thermostat-off mode	P _{TO}	0.020	kW		Type of energy input	P_{SB}	0.008	kW		
Crankcase heater mode	P _{CK}	0.005	kW		Standby mode					
				_						
Other items								1		
		verieble	l		For air-to-air heat pum		4380	m³/h		
Capacity control		variable			air flow-rate,outdoor m	neasured				
			ı							
Sound power level,	L_{WA}	71.0	dB		For water-/brine-to-air			m³/h		
outdoor measured			l		Rated brine or water fi		_	111-711		
Englandana of alta					outdoor side heat exch	nanger		l		
Emissions of nitrogen	NOx	_	mg/kWh							
oxides(if applicable)	***		fuel input							
			GCV							
				1						
GWP of the			kgCO₂eq.							
		675	(100years)							
refrigerant										
Contact details Mitsubishi	heavy indust	ries thermal	systeme I T	D	ı					
** If Cdh is not determined by measurement th					ers shall be 0,25.					
*** from 26 September 2018		J								
Where information relates to multi-spilt air con-	ditioners the t	est result an	d performer	nce data he	obtained on the basis of	f the performance				
of the outdoor unit, with a combination of indoor						ponormano				
2. 2.3 Salass. S.M., Will a Combination of Muor	(5) 15601	onded D	, a.o manun	UI III						
L										

SRK125VSAWPZSX

Model(s): FDC125VSA-	W / SRK60ZSX-W ((x2 units)					
Outdoor side heat exchanger of air of	onditioner:	air					
Indoor side heat exchanger of air co	nditioner :	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space	cooling energy		
	Prated,c	12.5	kW	efficiency ηs,c		295.4	%
Declared cooling capacity for part loa	ad at given outdoor	temperatu	ires	Declared energy	y efficiency ratio or gas utilization effic	ciency /	
Tj and indoor 27°C/19°C(dry/wet bulk	p)			auxiliary energy	factor for part load at given outdoor t	emperatures	Tj
T: 050a	5.		1 l				1
Tj=+35°C	Pdc	12.5	kW	Tj=+35°C	EERd or	276.0	%
Tj=+30°C	Pdc	9.2	kW		GUEc,bin / AEFc,bin		
1j=+30 C	Fuc	9.2]^vv	Tj=+30°C	EERd or	480.0	%
Tj=+25°C	Pdc	5.9	kW	T: .05°0	GUEc,bin / AEFc,bin		
,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. 45	0.0]	Tj=+25°C	EERd or	880.0	%
Tj=+20°C	Pdc	3.4	kW	Tj=+20°C	GUEc,bin / AEFc,bin EERd or		
			-	1]=+20 C	GUEc,bin / AEFc,bin	2130.0	%
Degradation			1		GOLC, DITT ALT C, DIT		1
coefficient for	Cdc	0.25	_				
air conditioners**	040						
	!		-				
Power consumpiton in other than 'ac	tive mode'						
			_				_
Off mode	P_{OFF}	0.008	kW	Crankcase heat	er mode P _{CK}	0.005	kW
Thermostat-off mode	P _{TO}	0.000	kW	Standby mode	P_SB	0.008	kW
Other items							1
	ı		,	For air-to-air air	conditioner:	4500	m³/h
Capacity control		variable]	air flow-rate,out	door measured		
	1		,				
Sound power level,	L_WA	71.0	dB				
outdoor			_				
	ĺ		1				
If engine driven:	NOx	_	mg/kWh				
Emissions of nitrogen	***	-	fuel input				
oxides]GCV				
GWP of the			kgCO₂eq.				
refrigerant		675	(100years)				
l onigorani	l		-				
Contact details Mit	subishi heavy indu	stries therr	nal systems,l	LTD			
** If Cdc is not determined by measu					ers shall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-sp	oilt air conditioners,	the test res	sult and perfo	ormance data be o	obtained on the basis of the performan	nce	
of the outdoor unit, with a combination	on of indoor unit(s)	recommen	ded by the m	anufacturer or imp	porter.		

Information to identify the model(s) to which the	e information	relates :		FDC125VS	A-W / SRK60ZSX-W (>	x2 units)		
Outdoor side heat exchanger of heat pump :		air						
Indoor side heat exchanger of heat pump :		air						
Indication if the heater is equipped with a supp	lementary hea	ater :		١	10			
if applicable : electric motor								
Parameters shall be declared for the average h	neating seaso	n , paramete	ers for the w	varmer and o	colder heating seasons	are optional.		
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity					Seasonal space heating	ng energy efficiency ηs,h		
	Prated,h	14.0	kW				192.5	%
Declared heating capacity for part load at indoor	or temperatur	e 20°C			Declared coefficient of	f performance or gas utilization efficie	ncy /	
and outdoor temperature Tj					auxiliary energy factor	for part load at given outdoor temper	atures Tj	
T _j =-7°C	Pdh	8.7	kW		T _j =-7°C	COPd or	310.0	%
			ı			GUEh,bin / AEFh,bin		
T _j =+2°C	Pdh	5.3	kW		T _j =+2°C	COPd or	458.0	%
		1				GUEh,bin / AEFh,bin		
T _j =+7°C	Pdh	3.4	kW		T _j =+7°C	COPd or	671.0	%
			ı			GUEh,bin / AEFh,bin		
T _j =+12°C	Pdh	3.0	kW		T _j =+12°C	COPd or	944.0	%
L		0.0	l			GUEh,bin / AEFh,bin		
T _{biv} =bivalent temperature	Pdh	9.8	kW		T _{biv} =bivalent temperature	COPd or	270.0	%
T	Dale	7.4	LAN			GUEh,bin / AEFh,bin		
T _{OL} =operation limit	Pdh	7.4	kW		T _{OL} =operation limit	COPd or	210.0	%
			l			GUEh,bin / AEFh,bin		
For air-to-water heat pumps :	Pdh	-	kW		For air-to-water heat	COPd or	-	%
T _j =-15°C					pumps:T _j =-15°C	GUEh,bin / AEFh,bin		
(if T _{OL} <-20°C)					(if T _{OL} <-20°C)			
Bivalent temperature	т	-10.0	°C		For water-to-air heat			
Divalent temperature	T _{biv}	10.0	•		pumps:Operation limit		_	°C
Degradation					T _{ol} temperature			
coefficient	C _{dh}	0.25	_					
heat pumps**	Our							
			ı					
Power consumpiton in modes other than 'activ	e mode'				Supplementary heater			
					back-up heating capac	eibu	-	kW
Off mode	P _{OFF}	0.008	kW		, , , , , , , , , , , , , , , , , , ,	•		'
Thermostat-off mode	P _{TO}	0.020	kW		Type of energy input	D	0.000	134/
Crankcase heater mode	P _{CK}	0.005	kW		Standby mode	P_{SB}	0.008	kW
			•'					
Other items								
			•		For air-to-air heat pum	nps:	4380	m³/h
Capacity control		variable			air flow-rate,outdoor m	neasured	4000	,
			•					
Sound power level,	L _{WA}	71.0	dB		For water-/brine-to-air	heat pumps :		
outdoor measured	WA		_		Rated brine or water fi	iow-rate,	-	m³/h
			1		outdoor side heat exch	nanger		
Emissions of nitrogen	NOx		mg/kWh					
oxides(if applicable)	***	-	fuel input					
			GCV					
				-				
			ı					
GWP of the		675	kgCO ₂ eq. (100years)					
refrigerant			(Tooyears)					
				<u> </u>	l .			
	heavy indust				nere shall be 0.25			
** If Cdh is not determined by measurement th	on me uerauli	. ucyi audii0f	, coemicient	an condition	icio orian de U,20.			
*** from 26 September 2018	dition "	ant second	d no-f-		obtained th	f the marfermen		
Where information relates to multi-spilt air cond						τ τη e performance		
of the outdoor unit, with a combination of indoor	r unit(s) reco	mmended by	y the manuf	acturer or im	porter.			

SRK140VNAWPZR

Model(s): FDC140VNA-V	V / SRK71ZR-W (x	(2 units)					
Outdoor side heat exchanger of air c	onditioner :	air					
Indoor side heat exchanger of air cor	ditioner:	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space	cooling energy		
	Prated,c	13.6	kW	efficiency ηs,c		311.5	%
Declared cooling capacity for part loa	d at given outdoor	temperatu	ires	Declared energy	y efficiency ratio or gas utilization efficiency	ciency /	
Tj and indoor 27°C/19°C(dry/wet bulb)			auxiliary energy	factor for part load at given outdoor	emperatures	Tj
7: 0500	5.		1 l				1
Tj=+35°C	Pdc	13.6	kW	Tj=+35°C	EERd or	319.0	%
Tj=+30°C	Pdc	10.0	kw		GUEc,bin / AEFc,bin		
1j=+30 C	Fuc	10.0],,,	Tj=+30°C	EERd or	540.0	%
Tj=+25°C	Pdc	6.4	kW	T' .05°0	GUEc,bin / AEFc,bin		
1,7 120 0	. 40	•••]	Tj=+25°C	EERd or	890.0	%
Tj=+20°C	Pdc	3.7	kW	Tj=+20°C	GUEc,bin / AEFc,bin EERd or		-
	,		J	1]=+20 C	GUEc,bin / AEFc,bin	2270.0	%
Degradation			1		GOEC, DITT ALT C, DITT		1
coefficient for	Cdc	0.25	_				
air conditioners**	000						
	!		-				
Power consumpiton in other than 'act	ive mode'						
			_				_
Off mode	P_{OFF}	0.010	kW	Crankcase heat	er mode P _{CK}	0.005	kW
Thermostat-off mode	P _{TO}	0.000	kW	Standby mode	P_SB	0.010	kW
Other items							1
	ı		,	For air-to-air air	conditioner:	4500	m³/h
Capacity control		variable]	air flow-rate,out	door measured		
	I		,				
Sound power level,	L_WA	72.0	dB				
outdoor			J				
			1				
If engine driven:	NOx	_	mg/kWh				
Emissions of nitrogen	***	-	fuel input				
oxides]GCV				
GWP of the			kgCO₂eq.				
refrigerant		675	(100years)				
i o i i gorant	ı		-				
Contact details Mit	subishi heavy indu	stries thern	nal systems,l	.TD_			
** If Cdc is not determined by measu					ers shall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-sp	ilt air conditioners,	the test res	sult and perfo	rmance data be o	obtained on the basis of the performa	nce	
of the outdoor unit, with a combination	n of indoor unit(s)	recommen	ded by the m	anufacturer or imp	porter.		

Information to identify the model(s) to which	the information	relates ·		EDC4400.0	IA W / CDV7475 W / /	2 unito)		
Outdoor side heat exchanger of heat pump :				FDC140VN	NA-W / SRK71ZR-W (x	2 units)		
Indoor side heat exchanger of heat pump :		air						
Indication if the heater is equipped with a su	onlementary he	air ater ·			No			
if applicable : electric motor	ppicmental y ne	utor .		•	10			
Parameters shall be declared for the average	e heating seaso	n naramete	rs for the w	armer and o	colder heating seasons	are ontional		
			Unit	arrior arra c			Value	Unit
Item Rated heating capacity	Symbol	value	OTIIL		Item	Symbol ng energy efficiency ηs,h	value	OTILL
Rateu neating capacity	Prated,h	15.5	kW		Seasonal space near	ng energy emolency (15,11	209.5	%
Declared heating capacity for part load at inc	loor temperatur	e 20°C			Declared coefficient of	f performance or gas utilization e	efficiency /	ļ.
and outdoor temperature Tj						for part load at given outdoor ter		
T _j =-7°C	Pdh	9.3	kW		T _j =-7°C	COPd or GUEh,bin / AEFh,bin	320.0	%
T _j =+2°C	Pdh	5.6	kW		T _j =+2°C	COPd or GUEh,bin / AEFh,bin	504.0	%
T _j =+7°C	Pdh	3.6	kW		T _j =+7°C	COPd or GUEh,bin / AEFh,bin	736.0	%
T _j =+12°C	Pdh	3.1	kW		T _j =+12°C	COPd or GUEh.bin / AEFh.bin	1090.0	%
T _{biv} =bivalent temperature	Pdh	10.5	kW		T _{biv} =bivalent temperature	COPd or GUEh,bin / AEFh,bin	250.0	%
T _{OL} =operation limit	Pdh	7.9	kW		T _{OL} =operation limit	COPd or GUEh,bin / AEFh,bin	200.0	%
For air-to-water heat pumps : T ₌ -15°C	Pdh	-	kW		For air-to-water heat pumps:T _i =-15°C	COPd or GUEh,bin / AEFh,bin	-	%
(if T _{OL} <-20°C)					(if T _{OL} <-20°C)			
Bivalent temperature	T_{biv}	-10.0	°C		For water-to-air heat pumps:Operation limit		_	°c
Degradation					T _{ol} temperature			
coefficient	C _{dh}	0.25	-					
heat pumps**								_
Power consumpiton in modes other than 'ac	tive mode'				Supplementary heater back-up heating capac	eit	ou -	kW
Off mode	P _{OFF}	0.010	kW					7
Thermostat-off mode	P _{TO}	0.020	kW		Type of energy input	Ps	0.010	kW
Crankcase heater mode	P _{CK}	0.005	kW		Standby mode			
Other items					For air-to-air heat pum	nps:	4380	m³/h
Capacity control		variable			air flow-rate,outdoor m	neasured	4300]"",""
Sound power level,	L_{WA}	73.0	dB		For water-/brine-to-air	heat pumps :		
outdoor measured	−WA	7 5.0			Rated brine or water fi	ow-rate,	-	m³/h
					outdoor side heat excl	nanger		
Emissions of nitrogen	NOx		mg/kWh					
oxides(if applicable)	***	l I	fuel input GCV					
GWP of the			kgCO₂eq.					
refrigerant			(100years)					
Contact details Mitsubis	shi heavy indust	ries thermal s	systems,LT	D				
** If Cdh is not determined by measurement	then the default	t degradation	coefficient	air condition	ners shall be 0,25.			
*** from 26 September 2018								
Where information relates to multi-spilt air co	onditioners,the t	est result and	d performar	nce data be	obtained on the basis o	f the performance		
of the outdoor unit, with a combination of ind	oor unit(s) reco	mmended by	the manufa	acturer or im	nporter.			

PCA001Z857A

SRK140VSAWPZR

Model(s): FDC140VSA-W / SF		x2 units)					
Outdoor side heat exchanger of air condition		air					
Indoor side heat exchanger of air condition	ner:	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space coo	oling energy		
	Prated,c	13.6	kW	efficiency ηs,c		311.5	%
Declared cooling capacity for part load at g	given outdoo	r temperatu	ıres	Declared energy effi	ciency ratio or gas utilization efficie	ncy /	
Tj and indoor 27°C/19°C(dry/wet bulb)				auxiliary energy fact	or for part load at given outdoor ten	nperatures	Tj
			7				1
Tj=+35°C	Pdc	13.6	kW	Tj=+35°C	EERd or	319.0	%
			٦		GUEc,bin / AEFc,bin		-
Tj=+30°C	Pdc	10.0	kW	Tj=+30°C	EERd or	540.0	%
7. 050-	5.		٦		GUEc,bin / AEFc,bin		-
Tj=+25°C	Pdc	6.4	kW	Tj=+25°C	EERd or	890.0	%
T. 000-	5.		٦		GUEc,bin / AEFc,bin		-
Tj=+20°C	Pdc	3.7	kW	Tj=+20°C	EERd or	2270.0	%
			۱ ا		GUEc,bin / AEFc,bin		1
Degradation							
coefficient for	Cdc	0.25	-				
air conditioners**			_				
Power consumpiton in other than 'active m	ode'						
0,5	Б	0.040	٦	0		0.005	1
Off mode	P _{OFF}	0.010	kW	Crankcase heater m		0.005	kW
Thermostat-off mode	P _{TO}	0.000	kW	Standby mode	P_{SB}	0.010	kW
Other items							
Outer Remis				For air-to-air air con	ditioner:]
Capacity control		variable	1	air flow-rate,outdoor		4500	m³/h
			_	all now-rate,outdoor	measured		1
Sound power level,			1				
outdoor	L_{WA}	72.0	dB				
			_				
If engine driven:			mg/kWh				
Emissions of nitrogen	NOx	_	fuel input				
oxides			GCV				
Oxidos							
GWP of the			kgCO₂eq.				
refrigerant		675	(100years)				
			-				
Contact details Mitsubish	ni heavy indu	ustries therr	mal systems,	_TD			
** If Cdc is not determined by measurement					shall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-spilt air	conditioners	the test re	sult and perfo	rmance data be obtai	ned on the basis of the performance	е	
of the outdoor unit, with a combination of in	ndoor unit(s)	recommen	ided by the m	anufacturer or importe	er.		

Information to identify the model(s) to which th	e information	relates :		FDC140VS	A-W / SRK71ZR-W (x2	2 units)		
Outdoor side heat exchanger of heat pump :		air				•		
Indoor side heat exchanger of heat pump :		air						
Indication if the heater is equipped with a supp	lementary hea	ater :		١	lo			
if applicable : electric motor								
Parameters shall be declared for the average I	neating seaso	n , paramete	ers for the w	varmer and o	older heating seasons	are optional.		
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity					Seasonal space heating	ng energy efficiency ηs,h		
	Prated,h	15.5	kW				219.6	%
Declared heating capacity for part load at indo	or temperatur	e 20°C			Declared coefficient of	f performance or gas utilization efficie	ncy /	
and outdoor temperature Tj					auxiliary energy factor	for part load at given outdoor temper	atures Tj	
T _j =-7°C	Pdh	9.3	kW		T _j =-7°C	COPd or	349.0	%
			-			GUEh,bin / AEFh,bin	040.0	,,,
T _j =+2°C	Pdh	5.6	kW		T _j =+2°C	COPd or	529.0	%
			•			GUEh,bin / AEFh,bin	020.0	, , ,
T _j =+7°C	Pdh	3.6	kW		T _j =+7°C	COPd or	750.0	%
						GUEh,bin / AEFh,bin		, ,
T _j =+12°C	Pdh	3.1	kW		T _j =+12°C	COPd or	1120.0	%
			ı			GUEh,bin / AEFh,bin		
T _{biv} =bivalent temperature	Pdh	10.5	kW		T _{biv} =bivalent	COPd or	250.0	%
			1		temperature	GUEh,bin / AEFh,bin		
T _{OL} =operation limit	Pdh	7.9	kW		T _{OL} =operation limit	COPd or	200.0	%
			ı			GUEh,bin / AEFh,bin		
For air-to-water heat pumps :	Pdh	-	kW		For air-to-water heat	COPd or	_	%
T _j =-15°C					pumps:T _j =-15°C	GUEh,bin / AEFh,bin		
(if T _{OL} <-20°C)					(if T _{OL} <-20°C)			
			ı					
Bivalent temperature	T _{biv}	-10.0	°C		For water-to-air heat			
					pumps:Operation limit		-	°C
Degradation					T _{ol} temperature			
coefficient	C_{dh}	0.25	-					
heat pumps**								
				_				
Power consumpiton in modes other than 'activ	e mode'				Supplementary heater	elbu	-	kW
	_		ı		back-up heating capac	city		
Off mode	P _{OFF}		kW					
Thermostat-off mode	P _{TO}	0.000	kW		Type of energy input	P_{SB}	0.010	kW
Crankcase heater mode	P _{CK}	0.005	kW		Standby mode			
				_				
Other items								1
		verieble	l		For air-to-air heat pum		4380	m³/h
Capacity control		variable			air flow-rate,outdoor m	neasured		l
			l					
Sound power level,	L_{WA}	73.0	dB		For water-/brine-to-air			m³/h
outdoor measured			I		Rated brine or water fi		-	
Emigralana of pity-			ma m # 3 A C		outdoor side heat exch	nanger		l
Emissions of nitrogen	NOx	_	mg/kWh					
oxides(if applicable)	***		fuel input					
			GCV					
				1				
GWP of the			kgCO₂eq.					
		675	(100years)					
refrigerant			ı · ′					
Contact details Mitsubishi	heavy indust	ries thermal	systeme I T	D	ı			
** If Cdh is not determined by measurement th					ers shall be 0.25.			
*** from 26 September 2018		J						
Where information relates to multi-spilt air con-	ditioners the t	est result an	d performer	nce data he	obtained on the basis of	f the performance		
of the outdoor unit, with a combination of indoor						ponormano		
2. 2.3 Salassi a.m., with a combination of fidol	(5) 15601	onded D	, a.o manun	UI III				
L								

SRK140VNAWTZSX

Model(s): FDC140VNA-	W / SRK50ZSX-W	(x3 units)					
Outdoor side heat exchanger of air of	conditioner :	air					
Indoor side heat exchanger of air co	nditioner :	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space	e cooling energy		
	Prated,c	13.6	kW	efficiency ηs,c		311.5	%
							ļ
Declared cooling capacity for part loa	ad at given outdoor	temperatu	ires	Declared energy	y efficiency ratio or gas utilization effi	ciency /	
Tj and indoor 27°C/19°C(dry/wet bulk	p)			auxiliary energy	factor for part load at given outdoor	temperatures	Tj
T: 0.50a	<u>.</u>		1 l				1
Tj=+35°C	Pdc	13.6	kW	Tj=+35°C	EERd or	319.0	%
Tj=+30°C	Pdc	10.0	kw		GUEc,bin / AEFc,bin		-
1j=+30 C	Fuc	10.0]^vv	Tj=+30°C	EERd or	540.0	%
Tj=+25°C	Pdc	6.4	kW	T' .05°0	GUEc,bin / AEFc,bin		-
,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. 45	• • • • • • • • • • • • • • • • • • • •]	Tj=+25°C	EERd or	890.0	%
Tj=+20°C	Pdc	3.7	kW	Tj=+20°C	GUEc,bin / AEFc,bin EERd or		†
			-	1]=+20 C	GUEc,bin / AEFc,bin	2270.0	%
Degradation			1		OCC, DITT ALT C, DITT		1
coefficient for	Cdc	0.25	_				
air conditioners**	040						
	!		-				
Power consumpiton in other than 'ac	tive mode'						
			_				_
Off mode	P_{OFF}	0.010	kW	Crankcase heat	er mode P _{CK}	0.005	kW
Thermostat-off mode	P _{TO}	0.000	kW	Standby mode	P_{SB}	0.010	kW
Other items						_	7
	ı		,	For air-to-air air	conditioner:	4500	m³/h
Capacity control		variable]	air flow-rate,out	door measured]
	I	1	,				
Sound power level,	L_WA	72.0	dB				
outdoor			_				
			1				
If engine driven:	NOx	_	mg/kWh				
Emissions of nitrogen	***	-	fuel input				
oxides]GCV				
GWP of the			kgCO₂eq.				
refrigerant		675	(100years)				
i o i i gorani	l		-				
Contact details Mit	subishi heavy indu	stries therr	nal systems,l	TD			
** If Cdc is not determined by measu					ers shall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-sp	oilt air conditioners,	the test res	sult and perfo	rmance data be o	obtained on the basis of the performa	nce	
of the outdoor unit, with a combination	on of indoor unit(s)	recommen	ded by the m	anufacturer or im	porter.		

Information to identify the model(s) to which the	e information	relates :		FDC140VN	A-W / SRK50ZSX-W (x	x3 units)		
Outdoor side heat exchanger of heat pump :		air						
Indoor side heat exchanger of heat pump :		air						
Indication if the heater is equipped with a supp	lementary hea	ater :		١	lo			
if applicable : electric motor								
Parameters shall be declared for the average h	neating seaso	n , paramete	ers for the w	varmer and o	older heating seasons	are optional.		
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity					Seasonal space heatir	ng energy efficiency ηs,h		
	Prated,h	15.5	kW				219.6	%
Declared heating capacity for part load at indoor	or temperatur	e 20°C			Declared coefficient of	performance or gas utilization efficient	ency /	
and outdoor temperature Tj					auxiliary energy factor	for part load at given outdoor tempe	ratures Tj	
T _j =-7°C	Pdh	9.3	kW		T _j =-7°C	COPd or	349.0	%
			1			GUEh,bin / AEFh,bin		
T _j =+2°C	Pdh	5.6	kW		T _j =+2°C	COPd or	529.0	%
			ı			GUEh,bin / AEFh,bin		
T _j =+7°C	Pdh	3.6	kW		T _j =+7°C	COPd or	750.0	%
			ı			GUEh,bin / AEFh,bin		
T _j =+12°C	Pdh	3.1	kW		T _j =+12°C	COPd or	1120.0	%
L		40.5	l		L	GUEh,bin / AEFh,bin		
T _{biv} =bivalent temperature	Pdh	10.5	kW		T _{biv} =bivalent temperature	COPd or	250.0	%
T	Dale	7.9	LAN			GUEh,bin / AEFh,bin	-	
T _{OL} =operation limit	Pdh	7.8	kW		T _{OL} =operation limit	COPd or	200.0	%
East aliana water hand a	Dalls				For all to the second second	GUEh,bin / AEFh,bin		
For air-to-water heat pumps :	Pdh	-	kW		For air-to-water heat	COPd or	-	%
T _j =-15°C					pumps:T _j =-15°C	GUEh,bin / AEFh,bin		
(if T _{OL} <-20°C)					(if T _{OL} <-20°C)			
Bivalent temperature	т .	-10.0	°C		For water-to-air heat			
Divalent temperature	T _{biv}		١٠		pumps:Operation limit		_	°C
Degradation					T _{ol} temperature			
coefficient	C _{dh}	0.25	_					
heat pumps**	-ui							
			ı					
Power consumpiton in modes other than 'activ	e mode'				Supplementary heater			
					back-up heating capac	elbu	-	kW
Off mode	P _{OFF}	0.010	kW		, , , , , , , , , , , , , , , , , , ,	•		'
Thermostat-off mode	P _{TO}	0.000	kW		Type of energy input	D	0.040	134/
Crankcase heater mode	P _{CK}	0.005	kW		Standby mode	P_{SB}	0.010	kW
			•'					
Other items								
			•		For air-to-air heat pum	ips:	4380	m³/h
Capacity control		variable			air flow-rate,outdoor m	neasured	4000	,
Sound power level,	L _{WA}	73.0	dB		For water-/brine-to-air	heat pumps :		
outdoor measured	WA		_		Rated brine or water fi	ow-rate,	-	m³/h
			1		outdoor side heat exch	nanger		
Emissions of nitrogen	NOx		mg/kWh					
oxides(if applicable)	***	-	fuel input					
			GCV					
				-				
			I					
GWP of the		675	kgCO ₂ eq. (100years)					
refrigerant			(Tooyears)					
<u> </u>				<u> </u>	l			
	heavy indust				here shall be 0.25			
** If Cdh is not determined by measurement th	en me detault	uegradation	coemicient	an condition	icio Silali De U,25.			
*** from 26 September 2018	diat		4		-basis at 10 to 1	64h		
Where information relates to multi-spilt air cond						tine performance		
of the outdoor unit, with a combination of indoor	r unit(s) reco	mmended by	y the manuf	acturer or im	ропег.			

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SRK140VSAWTZSX

Model(s): FDC140\	/SA-W / SRK50ZSX-W	(x3 units)					
Outdoor side heat exchanger of		air					
Indoor side heat exchanger of a	air conditioner :	air					
Type: vapour compression	ı						
if applicable : electric m	notor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space	cooling energy		
	Prated,c	13.6	kW	efficiency ηs,c		311.5	%
Declared cooling capacity for pa	art load at given outdoor	temperatu	res	Declared energy	efficiency ratio or gas utilization eff	ficiency /	
Tj and indoor 27°C/19°C(dry/we	t bulb)			auxiliary energy	factor for part load at given outdoor	temperatures	Tj
			1				, l
Tj=+35°C	Pdc	13.6	kW	Tj=+35°C	EERd or	319.0	%
T:- +20°0	Dda	40.0	1,,,,,		GUEc,bin / AEFc,bin	-	
Tj=+30°C	Pdc	10.0	kW	Tj=+30°C	EERd or	540.0	%
Tj=+25°C	Pdc	6.4	kw		GUEc,bin / AEFc,bin		
1]-123 0	1 40	0.4],,,,	Tj=+25°C	EERd or	890.0	%
Tj=+20°C	Pdc	3.7	kW	Tj=+20°C	GUEc,bin / AEFc,bin EERd or		-
,			1	1]=+20 C	GUEc,bin / AEFc,bin	2270.0	%
Degradation			1		GOLC, DIII / ALI C, DIII]
coefficient for	Cdc	0.25	_				
air conditioners**							
			•				
Power consumpiton in other that	ın 'active mode'						
·			_				_
Off mode	P_{OFF}	0.010	kW	Crankcase heate	er mode P _{CK}	0.005	kW
Thermostat-off mode	P _{TO}	0.000	kW	Standby mode	P_{SB}	0.010	kW
Other items							,
			,	For air-to-air air o	conditioner:	4500	m³/h
Capacity control		variable	J	air flow-rate,outd	loor measured]
			1				
Sound power level,	L_WA	72.0	dB				
outdoor			J				
16]				
If engine driven:	NOx	_	mg/kWh				
Emissions of nitrogen	***		fuel input GCV				
oxides			JGCV				
GWP of the			kgCO₂eq.				
refrigerant		675	(100years)				
g			•				
Contact details	Mitsubishi heavy indu	stries thern	nal systems,	LTD			
** If Cdc is not determined by m					ers shall be 0,25.		
*** from 26 September 2018							
Where information relates to mu	ulti-spilt air conditioners,	the test res	sult and perfo	ormance data be ol	btained on the basis of the performa	ance	
of the outdoor unit, with a comb	ination of indoor unit(s)	recommen	ded by the m	anufacturer or imp	porter.		

Information to identify the model(s) to which the	e information	relates :		FDC140VS	A-W / SRK50ZSX-W (>	x3 units)		
Outdoor side heat exchanger of heat pump :		air						
Indoor side heat exchanger of heat pump :		air						
Indication if the heater is equipped with a supp	lementary hea	ater :		١	10			
if applicable : electric motor								
Parameters shall be declared for the average h	neating seaso	n , paramete	ers for the w	varmer and o	colder heating seasons	are optional.		
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity					Seasonal space heating	ng energy efficiency ηs,h		
	Prated,h	15.5	kW				219.6	%
Declared heating capacity for part load at indoo	or temperatur	e 20°C			Declared coefficient of	f performance or gas utilization efficie	ncy /	
and outdoor temperature Tj					auxiliary energy factor	for part load at given outdoor temper	atures Tj	
T _j =-7°C	Pdh	9.3	kW		T _j =-7°C	COPd or	349.0	%
			1			GUEh,bin / AEFh,bin		
T _j =+2°C	Pdh	5.6	kW		T _j =+2°C	COPd or	529.0	%
			ı			GUEh,bin / AEFh,bin		
T _j =+7°C	Pdh	3.6	kW		T _j =+7°C	COPd or	750.0	%
			ı			GUEh,bin / AEFh,bin		
T _j =+12°C	Pdh	3.1	kW		T _j =+12°C	COPd or	1120.0	%
L		40.5	l			GUEh,bin / AEFh,bin		
T _{biv} =bivalent temperature	Pdh	10.5	kW		T _{biv} =bivalent temperature	COPd or	250.0	%
T	Dale	7.9	LAN			GUEh,bin / AEFh,bin		
T _{OL} =operation limit	Pdh	1.9	kW		T _{OL} =operation limit	COPd or	200.0	%
East sinks weeks head as	Dalls				For elektron to the	GUEh,bin / AEFh,bin		
For air-to-water heat pumps :	Pdh	-	kW		For air-to-water heat	COPd or	-	%
T _j =-15°C					pumps:T _j =-15°C	GUEh,bin / AEFh,bin		
(if T _{OL} <-20°C)					(if T _{OL} <-20°C)			
Bivalent temperature	т	-10.0	°C		For water-to-air heat			
Divalent temperature	T _{biv}	10.0	•		pumps:Operation limit		_	°C
Degradation					T _{ol} temperature			
coefficient	C _{dh}	0.25	_					
heat pumps**	-ui							
			ı					
Power consumpiton in modes other than 'activ	e mode'				Supplementary heater			
					back-up heating capac	eibu	-	kW
Off mode	P _{OFF}	0.010	kW		, , , , , , , , , , , , , , , , , , ,	•		'
Thermostat-off mode	P _{TO}	0.000	kW		Type of energy input	D	0.040	134/
Crankcase heater mode	P _{CK}	0.005	kW		Standby mode	P_{SB}	0.010	kW
			•'					
Other items								
			•		For air-to-air heat pum	nps:	4380	m³/h
Capacity control		variable			air flow-rate,outdoor m	neasured	4000	,
			•					
Sound power level,	L _{WA}	73.0	dB		For water-/brine-to-air	heat pumps :		
outdoor measured	WA	. 5.0	_		Rated brine or water fi	iow-rate,	-	m³/h
			1		outdoor side heat exch	nanger		
Emissions of nitrogen	NOx		mg/kWh					
oxides(if applicable)	***	-	fuel input					
			GCV					
				4				
			ı					
GWP of the		675	kgCO ₂ eq. (100years)					
refrigerant			(Tooyears)					
				<u> </u>	l .			
	heavy indust				nere shall be 0.25			
** If Cdh is not determined by measurement th	on me uerauli	. ucyi audii0f	, coemicient	an condition	icio orian de U,20.			
*** from 26 September 2018	dition "	ant second	d no-f-		obtained th	f the marfermen		
Where information relates to multi-spilt air cond						τ τη e performance		
of the outdoor unit, with a combination of indoor	r unit(s) reco	mmended by	y the manuf	acturer or im	porter.			

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Models SRK50ZSX-W, 60ZSX-W, 71ZR-W, 100ZR-W

Model(s): SRK50ZSX-W							
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Unit
Cooling capacity (sensible)	$P_{rated,c}$	4.0	kW	Total electric power input	P_{elec}	0.030	kW
Cooling capacity (latent)	P _{rated,c}	1.0	kW	Sound power level (per speed setting,if applicable)	L_{WA}	59.0	dB
Heating capacity	P _{rated,h}	6.0	kW				
Contact details	Mitsubishi h	neavy indu	ustries the	rmal systems,LTD			

Model(s): SRK60ZSX-W							
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Unit
Cooling capacity (sensible)	$P_{\text{rated,c}}$	4.7	kW	Total electric power input	P_{elec}	0.040	kW
Cooling capacity (latent)	P _{rated,c}	1.4	kW	Sound power level (per speed setting,if applicable)	L_WA	62.0	dB
Heating capacity	$P_{rated,h}$	6.8	kW				
Contact details	Mitsubishi h	neavy indu	ustries the	rmal systems,LTD			

Model(s): SRK71ZR-W								
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Unit	
Cooling capacity (sensible)	$P_{rated,c}$	5.2	kW	Total electric power input	P _{elec}	0.056	kW	
Cooling capacity (latent)	$P_{\text{rated,c}}$	1.9	kW	Sound power level (per speed setting,if applicable)	L _{WA}	60.0	dB	
Heating capacity	P _{rated,h}	7.1	kW					
Contact details	Mitsubishi I	Mitsubishi heavy industries thermal systems,LTD						

Model(s): SRK100ZR-W							
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Unit
Cooling capacity (sensible)	$P_{rated,c}$	7.4	kW	Total electric power input	P_{elec}	0.060	kW
Cooling capacity (latent)	P _{rated,c}	2.6	kW	Sound power level (per speed setting,if applicable)	L_{WA}	63.0	dB
Heating capacity	$P_{rated,h}$	11.2	kW				
Contact details	Mitsubishi h	Mitsubishi heavy industries thermal systems,LTD					

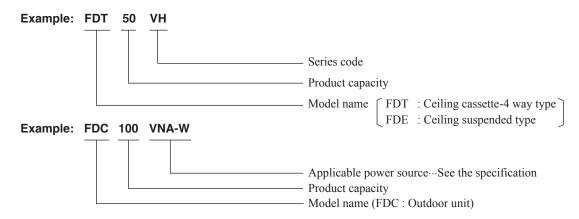
2. V MULTI SYSTEM

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2.1 GENERAL INFORMATION

2.1.1 How to read the model name



2.1.2 Table of models

Model Capacity	50	60	71
Ceiling cassette-4 way type (FDT)	0	0	0
Ceiling suspended type (FDE)	0	0	0
Outdoor unit to be combined (FDC)			FDC140VNA-W FDC140VSA-W (6 HP)

2.1.3 Table of system combinations

Outdoor unit	Туре	Indoor unit assembly capacity	Branch pipe set (Option)	
FDC100VNA-W FDC100VSA-W	VSA-W 50+50			
FDC125VNA-W FDC125VSA-W	Twin	60+60 50+71	DIS-WA1G	
	Twin	71+71		
FDC140VNA-W FDC140VSA-W	Triple	50+50+50	DIS-TA1G or DIS-WA1G×2 sets	

Notes(1) Always use the branch piping set (option) at branches in the refrigerant piping.

- (2) If wireless specifications are used, use 1 wireless indoor unit in combination with wired indoor units.

 (3) The combinations except the above table forbids.

2.2 SPECIFICATIONS

(1) Indoor units

(a) Ceiling cassette -4 way type (FDT)

Model				FDT50VH		
Power sour	Power source			1 Phase 220-240V 50Hz / 220V 60Hz		
	0	Cooling	İ	55		
0	Sound power level	Heating	1 1	56		
Operation	Caund pressure level	Cooling	dB(A)	P-Hi: 41 Hi: 33 Me: 30 Lo: 26		
data	Sound pressure level	Heating	1	P-Hi: 42 Hi: 33 Me: 28 Lo: 20		
	Silent mode sound press	sure level	1 1	_		
Estariar dia	anniana (Haight Width	Donath)		Unit 236 × 840 × 840		
Exterior diri	nensions (Height × Width	× Deptri)	mm	Panel 35 × 950 × 950		
Exterior app	pearance			Plaster white		
(Munsell co	olor)			(6.8Y8.9/0.2) near equivalent		
NI-4!			1	Unit 19		
Net weight			kg	Panel 5		
Heat excha	nger			Louver fin & inner grooved tubing		
Fan type &	Q'ty			Turbo fan ×1		
Fan motor	(Starting method)		W	50 < Direct line start >		
Air flow		Cooling Heating	m³/min	P-Hi: 22 Hi: 16 Me: 13 Lo: 10		
Available external static pressure		Pa	0			
Outside air intake			Possible			
Air filter, Quality / Quantity			Pocket plastic net ×1 (Washable)			
Shock & vik	oration absorber			Rubber sleeve (for fan motor)		
Electric hea	nter		W	<u> </u>		
Operation	Remote control			(Option) Wired: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-T-5AW-E2		
control	Room temperature conti	rol		Thermostat by electronics		
CONTROL	Operation display			-		
Safety equi	nmonto			Internal thermostat for fan motor.		
Salety equi	pinents			Frost protection thermostat.		
	Refrigerant piping size (O D \	mm	Liquid line: φ 6.35 (1/4")		
	Reingerant piping size (O.D.)	mm	Gas line: φ 12.7 (1/2")		
Installation Connecting method data Attached length of piping Insulation for piping				Flare piping		
		m	-			
			Necessary (both Liquid & Gas lines)			
Drain hose			Hose connectable VP25 (O.D.32)			
Drain pump, max lift height		mm	Built-in drain pump, 850			
IP number				IPX0		
Standard a	ccessories			Mounting kit, Drain hose		
Option part	S			=		
Notes (1)	The data are measured a	t the followi	na condi	tions The pipe length is 7.5m		

Notes (1) The data are measured at the following conditions.

Item	Indoor air temperature		Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Staridards
Cooling	27°C	19℃	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

⁽²⁾ This air-conditioner is manufactured and tested in conformity with the ISO.

⁽³⁾ Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

⁽⁴⁾ The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

Item			Model	FDT60VH			
Power source			1 Phase 220-240V 50Hz / 220V 60Hz				
	0	Cooling		58			
0	Sound power level	Heating	1 [59			
Operation	6	Cooling	dB(A)	P-Hi:44 Hi:34 Me:30 Lo:27			
data	Sound pressure level	Heating	1 [P-Hi: 44 Hi: 34 Me: 30 Lo: 23			
	Silent mode sound press	sure level	1 [_			
Exterior dia	nanciana (Haight \Midth	Donth)		Unit 236 × 840 × 840			
Exterior din	nensions (Height × Width	× Depth)	mm	Panel 35 × 950 × 950			
Exterior ap	pearance			Plaster white			
(Munsell co	olor)			(6.8Y8.9/0.2) near equivalent			
NI - 4 · · · · · · · · · · · · · · · · · ·			l	Unit 21			
Net weight			kg	Panel 5			
Heat excha	inger			Louver fin & inner grooved tubing			
Fan type &	Q'ty			Turbo fan ×1			
Fan motor	(Starting method)		W	50 < Direct line start >			
Air flow		Cooling Heating	m³/min	P-Hi: 26 Hi: 17 Me: 14 Lo: 11			
Available external static pressure		Pa	0				
Outside air	Outside air intake			Possible			
Air filter, Qu	uality / Quantity			Pocket plastic net ×1 (Washable)			
Shock & vil	oration absorber			Rubber sleeve (for fan motor)			
Electric hea	ater		W	-			
Operation	Remote control			(Option) Wired: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-T-5AW-E2			
control	Room temperature conti	rol		Thermostat by electronics			
CONTROL	Operation display			-			
Safety equi	nmonte			Internal thermostat for fan motor.			
Salety equi	prilerits			Frost protection thermostat.			
	Refrigerant piping size (O D .)	mm	Liquid line: φ 6.35 (1/4")			
	Herrigerant piping size (O.D.)	111111	Gas line: φ 12.7 (1/2")			
Installation Connecting method			Flare piping				
data Attached length of piping		m	-				
Insulation for piping			Necessary (both Liquid & Gas lines)				
Drain hose			Hose connectable VP25 (O.D.32)				
	o, max lift height		mm	Built-in drain pump, 850			
IP number				IPX0			
Standard a	ccessories			Mounting kit, Drain hose			
Option part	is			-			
Notes (1)	The data are measured a	t the following	na condit	ions The pipe length is 7.5m			

Item	Indoor air temperature		Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

⁽²⁾ This air-conditioner is manufactured and tested in conformity with the ISO.

(3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

(4) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

			Model	EDT74/II		
Item				FDT71VH		
Power sour	rce			1 Phase 220-240V 50Hz / 220V 60Hz		
	Sound power level	Cooling		59		
Operation	Souria power level	Heating] [60		
data	Sound pressure level	Cooling	dB(A)	P-Hi: 46 Hi: 34 Me: 31 Lo: 26		
data	Souria pressure level	Heating	1 [P-Hi: 46 Hi: 34 Me: 31 Lo: 26		
	Silent mode sound press	sure level] [-		
Exterior dia	nensions (Height × Width :	(Donth)	mm	Unit 236 × 840 × 840		
Exterior din	nensions (Height x Width)	x Deptil)	'''''	Panel 35 × 950 × 950		
Exterior ap	pearance			Plaster white		
(Munsell co	olor)			(6.8Y8.9/0.2) near equivalent		
Net weight			ka	Unit 21		
inet weight			kg	Panel 5		
Heat excha	anger			Louver fin & inner grooved tubing		
Fan type &	Q'ty			Turbo fan ×1		
Fan motor	(Starting method)		W	50 < Direct line start >		
Air flow	Air flow Cooling Heating		m³/min	P-Hi:28 Hi:18 Me:15 Lo:12		
Available ex	Available external static pressure		Pa	0		
Outside air	intake			Possible		
Air filter, Qu	uality / Quantity			Pocket plastic net ×1 (Washable)		
Shock & vil	bration absorber			Rubber sleeve (for fan motor)		
Electric hea	ater		W	-		
Operation	Remote control			(Option) Wired: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-T-5AW-E2		
control	Room temperature contr	ol		Thermostat by electronics		
CONTROL	Operation display			-		
Safety equi	inmonte			Internal thermostat for fan motor.		
Salety equi	ipinients			Frost protection thermostat.		
	Refrigerant piping size (O D)	mm	Liquid line: φ 9.52 (3/8")		
	0 11 0 (O.D.)	111111	Gas line: φ 15.88 (5/8")		
Installation Connecting method			Flare piping			
data			m	_		
Insulation for piping			Necessary (both Liquid & Gas lines)			
Drain hose			Hose connectable VP25 (O.D.28)			
	o, max lift height		mm	Built-in drain pump, 850		
IP number				IPX0		
Standard a	ccessories			Mounting kit, Drain hose		
Option part				_		
. (4)	TI 1.1					

Item	Indoor air temperature		Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19℃	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

⁽²⁾ This air-conditioner is manufactured and tested in conformity with the ISO.(3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

(4) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

(b) Ceiling suspended type (FDE)

Item			Model	FDE50VH		
Power source	ce			1 Phase 220-240V 50Hz / 220V 60Hz		
	Nominal cooling capacity	,	kW	5.0		
	Nominal heating capacity	,	kW	5.4		
Operation data	Sound power level	Cooling Heating		60		
uata	Sound pressure level	Cooling Heating	dB(A)	P-Hi: 46 Hi: 38 Me: 36 Lo: 31		
	Silent mode sound press	ure level		_		
Exterior dim	nensions (Height x Width x	Depth)	mm	210 × 1070 × 690		
Exterior app	pearance			Plaster white		
(Munsell co	olor)			(6.8Y8.9/0.2) near equivalent		
(RAL color))			(RAL 9003) near equivalent		
Net weight	,		kg	28		
Heat exchar	nger			Louver fin & inner grooved tubing		
Fan type & 0	Q'ty			Centrifugal fan ×2		
Fan motor (Starting method)		W	30 < Direct line start >		
Air flow Cooling Heating		m³/min	P-Hi:13 Hi:10 Me:9 Lo:7			
Available external static pressure		Pa	0			
Outside air i	intake			Not possible		
Air filter, Qua	ality / Quantity			Pocket plastic net ×2(Washable)		
Shock & vib	ration absorber			Rubber sleeve(for fan motor)		
Electric hear	ter		W	-		
Operation	Remote control			(Option) Wired: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-E-E3		
control	Room temperature contro	ol		Thermostat by electronics		
CONTROL	Operation display			-		
Safety equip	oments			Overload protection for fan motor Frost protection thermostat		
	Refrigerant piping size (C	D.D.)	mm	Liquid line: φ 6.35 (1/4") Gas line: φ 12.7 (1/2")		
Installation Connecting method data Attached length of piping Insulation for piping			Flare piping			
			m	_		
			Necessary (both Liquid & Gas lines)			
Drain hose			Hose connectable VP20(O.D.26)			
Drain pump	, max lift height		mm			
IP number				IPX0		
Standard ac	ccessories	-		Mounting kit, Drain hose		
Option parts	S			Motion sensor : LB-E		

Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

Item	tem			FDE60VH		
Power sour	rce			1 Phase 220-240V 50Hz / 220V 60Hz		
	Nominal cooling capacity		kW	5.6		
	Nominal heating capacity		kW	6.7		
Operation data	Sound power level	Cooling Heating		60		
uata	Sound pressure level	Cooling Heating	dB(A)	P-Hi: 47 Hi: 41 Me: 37 Lo: 32		
	Silent mode sound pressu	ure level		_		
Exterior din	nensions (Height x Width x	Depth)	mm	210 × 1320 × 690		
Exterior appearance (Munsell color) (RAL color)				Plaster white (6.8Y8.9/0.2) near equivalent (RAL 9003) near equivalent		
Net weight			kg	33		
Heat excha				Louver fin & inner grooved tubing		
Fan type &				Centrifugal fan ×4		
Fan motor (Starting method)		W	50 < Direct line start >			
Air flow Cooling Heating		m³/min	P-Hi:20 Hi:16 Me:13 Lo:10			
Available external static pressure		Pa	0			
Outside air				Not possible		
Air filter, Qu	uality / Quantity			Pocket plastic net ×2(Washable)		
Shock & vik	oration absorber			Rubber sleeve(for fan motor)		
Electric hea	ater		W	_		
Onevetion	Remote control			(Option) Wired: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-E-E3		
Operation control	Room temperature contro	ol		Thermostat by electronics		
CONTROL	Operation display			-		
Safety equi	pments			Overload protection for fan motor Frost protection thermostat		
	Refrigerant piping size (C).D.)	mm	Liquid line: φ 6.35 (1/4") Gas line: φ 12.7 (1/2")		
Installation	Connecting method			Flare piping		
data	Attached length of piping		m	-		
	Drain hose			Hose connectable VP20(O.D.26)		
Drain pumr	o, max lift height		mm	_		
IP number	-, 			IPX0		
Standard a	ccessories			Mounting kit, Drain hose		
Option part				Motion sensor : LB-E		
- pare		-				

Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Staridards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (2) This all-conditions is maintactive and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

Item	Item			FDE71VH
Power sour	rce			1 Phase 220-240V 50Hz / 220V 60Hz
	Nominal cooling capacity	(range)	kW	7.1
	Nominal heating capacity	(range)	kW	8.0
Operation data	Sound power level	Cooling Heating		60
data	Sound pressure level	Cooling Heating	dB(A)	P-Hi: 47 Hi: 41 Me: 37 Lo: 32
	Silent mode sound press	ure level		<u> </u>
Exterior din	mensions (Height x Width x	Depth)	mm	210 × 1320 × 690
Exterior ap	pearance			Plaster white
(Munsell co	olor)			(6.8Y8.9/0.2) near equivalent
(RAL color	.)			(RAL 9003) near equivalent
Net weight			kg	33
Heat excha	anger			Louver fin & inner grooved tubing
Fan type &	Q'ty			Centrifugal fan ×4
Fan motor	Fan motor (Starting method)		W	50 < Direct line start >
Air flow Cooling Heating		m³/min	P-Hi: 20 Hi: 16 Me: 13 Lo: 10	
Available ex	xternal static pressure		Pa	0
Outside air intake			Not possible	
Air filter, Qu	uality / Quantity			Pocket plastic net ×2(Washable)
Shock & vil	bration absorber			Rubber sleeve(for fan motor)
Electric hea	ater		W	_
0 1:	Remote control			(Option) Wired: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-E-E3
Operation	Room temperature contro	ol		Thermostat by electronics
control	Operation display			-
Safety equi	ipments			Overload protection for fan motor Frost protection thermostat
	Refrigerant piping size (O.D.)		mm	Liquid line: φ 9.52 (3/8") Gas line: φ 15.88 (5/8")
Installation Connecting method				Flare piping
data	Attached length of piping		m	_
	Insulation for piping			Necessary (both Liquid & Gas lines)
	Drain hose			Hose connectable VP20(O.D.26)
Drain pump	o, max lift height		mm	<u> </u>
IP number				IPX0
Standard a	ccessories			Mounting kit, Drain hose
Option part	ts			Motion sensor : LB-E

Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

(2) Outdoor units

Nominal cooling capacity (range) Nominal cooling capacity (range) Nominal cooling capacity (range) Nominal heatin				
Nominal cooling capacity (range) Nominal heating capacity (range) Nominal heating capacity (range) Sound power level Cooling Heating Silent mode sound pressure level Silent mode sound pressure level Heating Silent mode sound pressure level Silent mode sound pressure level Heating Silent mode sound pressure level Silent mode sound pressure level Heating Silent mode sound pressure level Heating Silent mode sound pressure level Silent mode sound pressure level Silent mode sound pressure level Silent mode sound pressure level Silent mode sound pressure level Silent mode sound pressure level Silent mode sound pressure level Silent mode sound pressure level Silent mode sound pressure level Silent mode sound pressure level Silent mode sound pressure level Silent mode sound pressure level Silent mode sound pressure level Silent mode sound pressure level Silent mode sound pressure level Silent mode sound pressure level Silent mode sound pressure Silent mode sound pressure level Silent mode sound pressure Silent mode sound pressure level Silent mode sound pressure				
Nominal heating capacity (range) Sound power level Cooling Heating Sound pressure level Cooling Heating Sound pressure level Cooling Heating Silent mode sound pressure level Gooling Heating Gooling				
Sound power level				
Departion data				
Sound pressure level Cooling Heating Silent mode sound pressure level 48/44 (Normal/Silent)				
Heating Silent mode sound pressure level Heating Silent mode sound pressure level 48/44 (Normal/Silent)				
Silent mode sound pressure level 48/44 (Normal/Silent)				
Exterior dimensions (Height × Width × Depth) mm 845×970×370 Exterior appearance (Munsell color) (RAL				
(Munsell color) (RAL color) Net weight Net weight Compressor type & Q'ty Compressor motor (Starting method) Refrigerant oil (Amount, type) Refrigerant (Type, amount, pre-charge length) Refrigerant control Fan motor (Starting method) Air flow Cooling Heating Refrigerant Cooling Heating Refrigerant Cooling Refrigerant Refrigeran				
RAL color) RAL 7044 near equivalent				
Net weight kg 77 Compressor type & Q'ty RMT5126SWP3×1 Compressor motor (Starting method) kW Direct line start Refrigerant oil (Amount, type) L 0.9 (M-MB75) Refrigerant (Type, amount, pre-charge length) kg R32 3.3 in outdoor unit (Incl. the amount for the piping of 30m) Heat exchanger M shape fin & inner grooved tubing Refrigerant control Electronic expansion valve Fan type & Q'ty Propeller fan ×1 Fan motor (Starting method) W 86 < Direct line start > Cooling Heating M³/min To TS Rubber sleeve (for fan motor & compressor) Electric heater W 20 (Crank case heater)				
Compressor type & Q'ty Compressor motor (Starting method) Refrigerant oil (Amount, type) Refrigerant (Type, amount, pre-charge length) Heating Cooling Heating Refrigerant (Starting method) Refrigerant (Type, amount, pre-charge length) Refrigerant (Type, amount, pre-charge length) Refrigerant (Type, amount, pre-charge length) Refrigerant control Refrigerant control Refrigerant control Refrigerant (Starting method) Refrigerant (Starting method) Refrigerant (Starting method) Refrigerant (Starting method) Refrigerant (Starting method) Refrigerant (Type, amount, pre-charge length) Refrigerant (Type, amount, pre-cha				
Compressor motor (Starting method) Refrigerant oil (Amount, type) Refrigerant (Type, amount, pre-charge length) Heat exchanger Refrigerant control Fan type & Q'ty Fan motor (Starting method) Air flow Cooling Heating Refrigerant Cooling Heating Refrigerant control Refrigerant control Refrigerant control Refrigerant control Refrigerant control Refrigerant control Refrigerant control Refrigerant control Refrigerant control Refrigerant control Refrigerant control Refrigerant control Refrigerant control Refrigerant (Incl. the amount for the piping of 30m) Refrigerant control Refrigerant (Incl. the amount for the piping of 30m) Refrigerant control Refrigerant (Incl. the amount for the piping of 30m) Refrigerant (Incl.				
Refrigerant oil (Amount, type) Refrigerant (Type, amount, pre-charge length) kg Refrigerant (Type, amount, pre-charge length) kg Refrigerant (Type, amount, pre-charge length) kg Refrigerant (Type, amount, pre-charge length) kg Refrigerant (Type, amount, pre-charge length) kg Refrigerant (Type, amount, pre-charge length) kg Refrigerant (Type, amount, pre-charge length) kg Refrigerant (Type, amount, pre-charge length) kg Refrigerant (Incl. the amount for the piping of 30m) Refrigerant (Incl. the amount for the piping of				
Refrigerant (Type, amount, pre-charge length) kg R32 3.3 in outdoor unit (Incl. the amount for the piping of 30m) Heat exchanger M shape fin & inner grooved tubing Refrigerant control Electronic expansion valve Fan type & Q'ty Propeller fan x1 Fan motor (Starting method) W 86 < Direct line start > Cooling Heating M³/min To Rubber sleeve (for fan motor & compressor) Electric heater W 20 (Crank case heater)				
Heat exchanger				
Refrigerant control Electronic expansion valve Fan type & Q'ty Propeller fan ×1 Fan motor (Starting method) W 86 < Direct line start > Air flow Cooling Heating 75 Shock & vibration absorber Rubber sleeve (for fan motor & compressor) Electric heater W 20 (Crank case heater)				
Refrigerant control Electronic expansion valve Fan type & Q'ty Propeller fan ×1 Fan motor (Starting method) W 86 < Direct line start > Air flow Cooling Heating 75 Shock & vibration absorber Rubber sleeve (for fan motor & compressor) Electric heater W 20 (Crank case heater)				
Fan motor (Starting method) W 86 < Direct line start > Air flow Cooling Heating m³/min 75 Shock & vibration absorber Rubber sleeve (for fan motor & compressor) Electric heater W 20 (Crank case heater)				
Cooling Heating M³/min 75 73 Shock & vibration absorber Rubber sleeve (for fan motor & compressor) Electric heater W 20 (Crank case heater)				
Cooling Heating M³/min 75 73 Shock & vibration absorber Rubber sleeve (for fan motor & compressor) Electric heater W 20 (Crank case heater)				
Air flow Heating Mymin 73 Shock & vibration absorber Rubber sleeve (for fan motor & compressor) Electric heater W 20 (Crank case heater)	-			
Shock & vibration absorber Rubber sleeve (for fan motor & compressor) Electric heater W 20 (Crank case heater)	73			
,				
Internal thermostat for fan motor				
Safety equipments Abnormal discharge temperature protection				
Liquid line: #9.52 (3/8")				
Refrigerant piping size (O.D.) mm Gas line: \$\phi 0.52 (0.00)\$				
Connecting method Flare piping				
Installation Attached length of piping m -				
data Insulation for piping Necessary (both Liquid & Gas lines)				
Refrigerant line (one way) length m Max.50m				
Vertical height diff. between 0/U and I/U m Max.50m (Outdoor unit is higher) Max.15m (Outdoor unit is lo	wer)			
Drain hose Hole size ϕ 20 × 3 pcs	/			
IP number IP24				
Standard accessories –				
Option parts —				
Notes (1) The data are measured at the following conditions. The pipe length is 7.5m.				

. ,		•			
Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

⁽²⁾ This air-conditioner is manufactured and tested in conformity with the ISO.
(3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
(4) Slect the breaker size according to the own national standard.
(5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

Item			Model	FDC100VSA-W			
Power sour	rce			3 Phase 380-415V 50Hz / 380V 60Hz			
	Nominal cooling capacity	(range)	kW	10.0 [4.0(Min.)-11.2(Max.)]			
	Nominal heating capacity (range)		kW	11.2 [4.0(Min.)-12.5(Max.)]			
		Cooling		69			
Operation	Sound power level	Heating		70			
data		Cooling	dB(A)	54			
	Sound pressure level	Heating	`	55			
	Silent mode sound pressu	ire level		48/44 (Normal/Silent)			
Exterior din	nensions (Height × Width ×	Depth)	mm	845×970×370			
Exterior app	pearance			Stucco white			
(Munsell co	olor)			(4.2Y7.5/1.1) near equivalent			
(RAL color)				(RAL 7044) near equivalent			
Net weight			kg	78			
Compresso	or type & Q'ty			RMT5126SWP4×1			
Compresso	or motor (Starting method)		kW	Direct line start			
Refrigerant oil (Amount, type)		L	0.9 (M-MB75)				
Refrigerant (Type, amount, pre-charge length)		kg	R32 3.3 in outdoor unit (Incl. the amount for the piping of 30m)				
Heat exchanger			M shape fin & inner grooved tubing				
Refrigerant control			Electronic expansion valve				
Fan type &	Q'ty			Propeller fan ×1			
	(Starting method)		W	86 < Direct line start >			
Air flow	,	Cooling	m³/min	75			
Air flow		Heating	m /min –	73			
Shock & vik	oration absorber			Rubber sleeve (for fan motor & compressor)			
Electric hea	ater		W	20 (Crank case heater)			
Cafatu agui	inmente			Internal thermostat for fan motor			
Safety equi	pments			Abnormal discharge temperature protection			
	5 (Liquid line: φ 9.52 (3/8")			
	Refrigerant piping size (O	J.D.)	mm	Gas line: ϕ 15.88 (5/8")			
	Connecting method			Flare piping			
Installation	Attached length of piping		m	-			
data	Insulation for piping			Necessary (both Liquid & Gas lines)			
	Refrigerant line (one way)	length	m	Max.50m			
	Vertical height diff. between O/	/U and I/U	m	Max.50m (Outdoor unit is higher) Max.15m (Outdoor unit is lower)			
	Drain hose			Hole size φ20 × 3 pcs			
IP number				IP24			
Standard a	ccessories						
Option part	ts			_			

Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19℃	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Slect the breaker size according to the own national standard.
- (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.

Item			Model	FDC125VNA-W	
Power sour	ce			1 Phase 220-240V 50Hz / 220V 60Hz	
	Nominal cooling capacity	(range)	kW	12.5 [5.0(Min.)-14.0(Max.)]	
	Nominal heating capacity	(range)	kW	14.0 [4.0(Min.)-16.0(Max.)]	
Operation	Sound power level	Cooling Heating		71	
data	Sound pressure level	Cooling	dB(A)	54	
	<u>'</u>	Heating		56	
	Silent mode sound pressi	ure level		48/45 (Normal/Silent)	
Exterior din	nensions (Height × Width ×	Depth)	mm	845×970×370	
Exterior app				Stucco white	
Munsell co	olor)			(4.2Y7.5/1.1) near equivalent	
RAL color)				(RAL 7044) near equivalent	
Net weight			kg	77	
Compresso	or type & Q'ty			RMT5126SWP3×1	
Compresso	or motor (Starting method)		kW	Direct line start	
Refrigerant oil (Amount, type)			L	0.9 (M-MB75)	
Refrigerant (Type, amount, pre-charge length)		kg	R32 3.3 in outdoor unit (Incl. the amount for the piping of 30m)		
Heat exchanger		Ť	M shape fin & inner grooved tubing		
Refrigerant control				Electronic expansion valve	
an type &				Propeller fan ×1	
an motor ((Starting method)		W	86 < Direct line start >	
Air flow Cooling Heating		m³/min	75 73		
Shock & vit	oration absorber	1		Rubber sleeve (for fan motor & compressor)	
Electric hea			W	20 (Crank case heater)	
	-			Internal thermostat for fan motor	
Safety equi	pments			Abnormal discharge temperature protection	
	Refrigerant piping size (C).D.)	mm —	Liquid line: φ 9.52 (3/8") Gas line: φ 15.88 (5/8")	
	Connecting method			Flare piping	
nstallation	Attached length of piping		m	—	
data	Insulation for piping			Necessary (both Liquid & Gas lines)	
	Refrigerant line (one way) lenath	m	Max.50m	
	Vertical height diff. between O		m	Max.50m (Outdoor unit is higher) Max.15m (Outdoor unit is lower)	
	Drain hose	C and I/O		Hole size $\phi 20 \times 3$ pcs	
P number				IP24	
Standard a	ccessories			——————————————————————————————————————	
Option part					
	The data are measured at	the fellowi	na nanditin		

Item	Indoor air temperature		Outdoor air	temperature	Standards		
Operation	DB	WB	DB	WB	Standards		
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1		
Heating	20°C	_	7°C	6°C	ISO5151-H1		

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

 (4) Slect the breaker size according to the own national standard.

 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

			Model	FDC125VSA-W		
Item						
Power sour	rce			3 Phase 380-415V 50Hz / 380V 60Hz		
Nominal cooling capacity (range)		kW	12.5 [5.0(Min.)-14.0(Max.)]			
	Nominal heating capacity	(range)	kW	14.0 [4.0(Min.)-16.0(Max.)]		
Operation	Sound power level	Cooling Heating		71		
data		Cooling	dB(A)	54		
	Sound pressure level	Heating	ub(A)	54 56		
	Silent mode sound pressu		}	48/45 (Normal/Silent)		
	Silent mode sound pressu	ire ievei		46/45 (NOTHIAI/SIIEITI)		
Exterior din	nensions (Height × Width ×	Depth)	mm	845×970×370		
Exterior app				Stucco white		
(Munsell co				(4.2Y7.5/1.1) near equivalent		
(RAL color)				(RAL 7044) near equivalent		
Net weight			kg	78		
Compresso	or type & Q'ty			RMT5126SWP4×1		
Compresso	or motor (Starting method)		kW	Direct line start		
Refrigerant oil (Amount, type)			L	0.9 (M-MB75)		
Refrigerant (Type, amount, pre-charge length)			kg	R32 3.3 in outdoor unit (Incl. the amount for the piping of 30m)		
Heat exchanger			M shape fin & inner grooved tubing			
Refrigerant control			Electronic expansion valve			
Fan type &	Q'ty			Propeller fan ×1		
Fan motor ((Starting method)		W	86 < Direct line start >		
Air flow		Cooling	m³/min	75		
Air ilow		Heating	1 111 /1111111	73		
Shock & vib	oration absorber			Rubber sleeve (for fan motor & compressor)		
Electric hea	ater		W	20 (Crank case heater)		
Safety equi	inmente			Internal thermostat for fan motor		
Salety equi	priierits			Abnormal discharge temperature protection		
	Refrigerant piping size (O	.D.)	mm	Liquid line: ϕ 9.52 (3/8")		
	heirigerant piping size (O	.D.)	mm	Gas line: ϕ 15.88 (5/8")		
	Connecting method			Flare piping		
Installation	Attached length of piping		m	_		
data	Insulation for piping			Necessary (both Liquid & Gas lines)		
	Refrigerant line (one way)	length	m	Max.50m		
	Vertical height diff. between O/		m	Max.50m (Outdoor unit is higher) Max.15m (Outdoor unit is lower)		
	Drain hose			Hole size φ20 × 3 pcs		
IP number				IP24		
Standard a	ccessories					
Option part	ts			_		
NI 1 (4)				T. 1. 1. 1. 7.		

Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Slect the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.

Item			Model	FDC140VNA-W	
Power sour	ce			1 Phase 220-240V 50Hz / 220V 60Hz	
	Nominal cooling capacity	(range)	kW	13.6 [5.0(Min.)-14.5(Max.)]	
	Nominal heating capacity	(range)	kW	15.5 [4.0(Min.)-16.5(Max.)]	
Power source No No No No No No No No		Cooling		72	
	Sound power level	Heating		73	
data		Cooling	dB(A)	56	
	Sound pressure level	Heating	`	58	
	Silent mode sound pressu	ire level		49/45 (Normal/Silent)	
Exterior dim	nensions (Height × Width ×	Depth)	mm	845×970×370	
Exterior app	pearance			Stucco white	
	olor)			(4.2Y7.5/1.1) near equivalent	
(RAL color)				(RAL 7044) near equivalent	
Net weight			kg	77	
Compresso	r type & Q'ty			RMT5126SWP3×1	
Compresso	r motor (Starting method)		kW	Direct line start	
Refrigerant	Refrigerant oil (Amount, type)		L	0.9 (M-MB75)	
Refrigerant	(Type, amount, pre-charge	length)	kg	R32 3.3 in outdoor unit (Incl. the amount for the piping of 30m)	
Heat exchai	nger			M shape fin & inner grooved tubing	
Refrigerant	control			Electronic expansion valve	
Fan type &	an type & Q'ty			Propeller fan ×1	
Fan motor (Starting method)		W	86 < Direct line start >	
Air flow		Cooling	m³/min	75	
All llow		Heating	111 /111111	73	
Shock & vib	ration absorber			Rubber sleeve (for fan motor & compressor)	
Electric hea	ter		W	20 (Crank case heater)	
Safety equi	nments			Internal thermostat for fan motor	
Odicty equi				Abnormal discharge temperature protection	
	Refrigerant piping size (O	D)	mm -	Liquid line: φ 9.52 (3/8")	
		.D.)	111111	Gas line: φ 15.88 (5/8")	
	Connecting method			Flare piping	
Installation	Attached length of piping		m	<u> </u>	
data	Insulation for piping			Necessary (both Liquid & Gas lines)	
	Refrigerant line (one way)		m	Max.50m	
	Vertical height diff. between O/	U and I/U	m	Max.50m (Outdoor unit is higher) Max.15m (Outdoor unit is lower)	
	Drain hose			Hole size φ 20 × 3 pcs	
IP number				IP24	
Standard ad				<u> </u>	
Option parts	s			_	

Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Slect the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

			Model	FDC140VSA-W	
Item					
Power sour				3 Phase 380-415V 50Hz / 380V 60Hz	
	Nominal cooling capacity	(range)	kW	13.6 [5.0(Min.)-14.5(Max.)]	
	Nominal heating capacity	(range)	kW	15.5 [4.0(Min.)-16.5(Max.)]	
Operation	Sound power level	Cooling		72	
data	Souria power level	Heating		73	
uala	Sound pressure level	Cooling	dB(A)	56	
	Souria pressure lever	Heating]	58	
	Silent mode sound pressu	ıre level		49/45 (Normal/Silent)	
Exterior din	nensions (Height × Width ×	Depth)	mm	845×970×370	
Exterior app				Stucco white	
(Munsell co				(4.2Y7.5/1.1) near equivalent	
(RAL color)				(RAL 7044) near equivalent	
Net weight			kg	82	
Compresso	or type & Q'ty			RMT5126SWP4×1	
Compresso	Compressor motor (Starting method)		kW	Direct line start	
Refrigerant	defrigerant oil (Amount, type)		L	0.9 (M-MB75)	
Refrigerant	(Type, amount, pre-charge	e length)	kg	R32 3.3 in outdoor unit (Incl. the amount for the piping of 30m)	
Heat excha	inger			M shape fin & inner grooved tubing	
Refrigerant	control			Electronic expansion valve	
Fan type &	Q'ty			Propeller fan ×1	
Fan motor (an motor (Starting method)		W	86 < Direct line start >	
Air flow		Cooling	m³/min	75	
All llow		Heating] /	73	
Shock & vib	oration absorber			Rubber sleeve (for fan motor & compressor)	
Electric hea	ater		W	20 (Crank case heater)	
Safety equi	inmonte			Internal thermostat for fan motor	
Salety equi	prilents			Abnormal discharge temperature protection	
	Refrigerant piping size (C) D)	mm	Liquid line: φ 9.52 (3/8")	
	Reingerant piping size (C	,.D.)	111111	Gas line: φ15.88 (5/8")	
	Connecting method			Flare piping	
Installation			m	-	
data	Insulation for piping			Necessary (both Liquid & Gas lines)	
	Refrigerant line (one way)		m	Max.50m	
	Vertical height diff. between O/	/U and I/U	m	Max.50m (Outdoor unit is higher) Max.15m (Outdoor unit is lower)	
	Drain hose			Hole size φ20 × 3 pcs	
IP number				IP24	
Standard a	ccessories			-	
Option part	ts			-	
N. 1 (4)	T 11		-	. T	

Item	Indoor air t	emperature	Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Slect the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.

(3) Operation chart

The V Multi is a system that allows for different models and capacities of indoor units to be connected so the individual operating characteristics of the indoor and outdoor are provided. Use the procedure shown in item (c) to calculate the combined operating characteristics.

(a) Operating characteristic of outdoor unit

(220-240V 50Hz/220V 60Hz)

Item	Model	FDC100VNA-W	FDC125VNA-W	FDC140VNA-W
Cooling power consumption	kW	3.02/3.02	4.00/4.00	4.59/4.59
Heating power consumption	K VV	2.89/2.89	3.38/3.38	4.06/4.06
Cooling running current	Δ.	13.6-13.0/13.6	17.6-16.8/17.6	20.3-19.3/20.3
Heating running current	A	13.0-12.4/13.0	14.8-14.0/14.8	17.8-17.0/17.8
Inrush current (L.R.A) <max. current="" running=""></max.>	A		5 <24>	

(380-415V 50Hz/380V 60Hz)

Item	Model	FDC100VSA-W	FDC125VSA-W	FDC140VSA-W
Cooling power consumption	kW	3.02/3.02	4.00/4.00	4.59/4.59
Heating power consumption	K VV	2.89/2.89	3.38/3.38	4.06/4.06
Cooling running current	٨	4.5-4.3/4.5	5.9-5.6/5.9	6.8-6.4/6.8
Heating running current	Α	4.3-4.1/4.3	5.0-4.7/5.0	6.0-5.7/6.0
Inrush current (L.R.A) <max. current="" running=""></max.>	A		5 <15>	

Note(1) This packaged air-conditioner is manufactured and tested in conformity with the following standard. ISO-T1 "UNITARY AIR-CONDITIONERS"

(b) Operating characteristic of indoor unit

FDT Series

(220-240V 50Hz/220V 60Hz)

Item	Model	FDT50VH	FDT60VH	FDT71VH
Cooling power consumption	kW	0.04-0.04/0.04	0.07-0.07/0.07	0.08-0.08/0.08
Heating power consumption	K VV	0.04-0.04/0.04	0.07-0.07/0.07	0.08-0.08/0.08
Cooling running current		0.36-0.33/0.36	0.62-0.57/0.62	0.70-0.64/0.70
Heating running current	A	0.36-0.33/0.36	0.62-0.57/0.62	0.70-0.64/0.70

FDE Series

(220-240V 50Hz/220V 60Hz)

Item	Model	FDE50VH	FDE60VH	FDE71VH
Cooling power consumption	kW	0.05-0.05/0.05	0.08-0.08/0.08	0.08-0.08/0.08
Heating power consumption	K VV	0.05-0.05/0.05	0.08-0.08/0.08	0.08-0.08/0.08
Cooling running current		0.50-0.50/0.50	0.75-0.75/0.75	0.75-0.75/0.75
Heating running current	A	0.50-0.50/0.50	0.75-0.75/0.75	0.75-0.75/0.75

Notes(1) This packaged air-conditioner is manufactured and tested in conformity with the following standard. ISO-T1 "UNITARY AIR-CONDITIONERS"

⁽²⁾ The values shown in the above table are common to both cooling and heating operations.

(c) Calculation of total operation characteristics

Since the operation characteristics of V Multi system depend on combination of indoor unit, calculate the total operation characteristics of the system by using the formulas below according to speciations of each indoor unit or outdoor unit.

(i) 1 Phase models

1) Total power consumption

Total power consumption (kW) = Power consumption of outdoor unit + \sum (Power consumption of indoor unit)

2) Total running current

Total running current (A) = Running current of outdoor unit + \sum (Running current of indoor unit)

3) Total power factor

Total power factor (%) = [Total power consumption (W) / Total running current (A) \times Power source] \times 100 Total operation characteristics = Operation characteristic value of outdoor unit + Operation characteristic value of indoor unit

[Example]

 $(Conditions) \qquad Operation \ voltage \cdot \cdots \cdot \cdot Indoor \ unit: 220 \ V, 50 \ Hz$

Outdoor unit: 220 V, 50 Hz

Operation mode Cooling and Heating

Unit----- Outdoor unit: FDC140VNA-W × 1 unit

Indoor unit: FDT71VH × 2 units

Operation characteristics of each unit

(Cooling/Heating)

Item Model	FDC140VNA-W	FDT71VH
Power consumption (kW)	4.59/4.06	0.08/0.08
Running current (A)	20.3/17.8	0.70/0.70

① Total power consumption (kW)

(Cooling)
$$4.59 + (0.08 \times 2) = 4.75$$

(Heating)
$$4.06 + (0.08 \times 2) = 4.22$$

2 Total running current (A)

(Cooling)
$$20.3 + (0.70 \times 2) = 21.7$$

(Heating)
$$17.8 + (0.70 \times 2) = 19.2$$

3 Total power factor (%)

(Cooling)
$$\frac{4.75 \times 1000}{21.7 \times 220} \times 100 = 99 \%$$

(Heating)
$$\frac{4.22 \times 1000}{19.2 \times 220} \times 100 = 99 \%$$

(ii) 3 Phase models

1) Total power consumption

Total power consumption (kW) = Power consumption of outdoor unit + \sum (Power consumption of indoor unit)

2) Total running current

Total running current (A) = Running current of outdoor unit + $[\sum (Running current of indoor unit) \times 1/3]$

3) Total power factor

Total power factor (%) = [Total power consumption (W) / $\sqrt{3}$ × Total running current (A) × Power source] × 100 Total operation characteristics = Operation characteristic value of outdoor unit + Operation characteristic value of indoor unit

[Example]

(Conditions) Operation voltage ······· Indoor unit: 220 V, 50 Hz

Outdoor unit: 380 V, 50 Hz

Operation mode Cooling and Heating

Unit----- Outdoor unit: FDC125VSA-W × 1 unit

Indoor unit: FDT50VH \times 1 unit, FDT71VH \times 1 unit

Operation characteristics of each unit

(Cooling/Heating)

Item Model	FDC125VSA-W	FDT50VH	FDT71VH
Power consumption (kW)	4.00/3.38	0.04/0.04	0.08/0.08
Running current (A)	5.9/5.0	0.36/0.36	0.70/0.70

① Total power consumption (kW)

(Cooling) 4.00 + 0.04 + 0.08 = 4.12 (kW)

(Heating) 3.38 + 0.04 + 0.08 = 3.50 (kW)

2 Total running current (A)

(Cooling)
$$5.9 + \left[(0.36 + 0.70) \times \frac{1}{3} \right] = 6.3 \text{ (A)}$$

(Cooling)
$$5.9 + \left[(0.36 + 0.70) \times \frac{1}{3}) \right] = 6.3 \text{ (A)}$$

(Heating) $5.0 + \left[(0.36 + 0.70) \times \frac{1}{3}) \right] = 5.4 \text{ (A)}$

3 Total power factor (%)

(Cooling)
$$\frac{4.12 \times 1000}{\sqrt{3} \times 6.3 \times 380} \times 100 = 99\%$$

(Cooling)
$$\frac{4.12 \times 1000}{\sqrt{3} \times 6.3 \times 380} \times 100 = 99 \%$$
(Heating)
$$\frac{3.50 \times 1000}{\sqrt{3} \times 5.4 \times 380} \times 100 = 98 \%$$

2.3 EXTERIOR DIMENSIONS			
(1) Indoor units			
(a) Ceiling cassette-4 way type (FDT)	.See	page	68
(b) Ceiling suspended type (FDE)	.See	page	75
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3.1 WIRELESS KIT

3.1.1 FDT series (RCN-T-5AW-E2)

Notes

Following function of FDT indoor unit series are not able to be set with this wireless remote control (RCN-T-5AW-E2).

1. Individual flap control system

PJF012D035

Safety precautions

•Please read this manual carefully before starting installation work to install the unit properly. Every one of the followings is important information to be observed strictly.

MARNING Failure to follow these instructions properly may result in serious consequences such as death, severe injury, etc.

 \triangle CAUTION Failure to follow these instructions properly may cause injury or property damage. It could have serious consequences depending on the circumstances.

•The following pictograms are used in the text.



Never do.



Always follow the instructions given.

•Keep this manual at a safe place where you can consult with whenever necessary. Show this manual to installers when moving or repairing the unit. When the ownership of the unit is transferred, this manual should be given to a new owner.

! WARNING



• Consult your dealer or a professional contractor to install the unit.

Improper installation made on your own may cause electric shocks, fire or dropping of the unit.



• Installation work should be performed properly according to this installation manual. Improper installation work may result in electric shocks, fire or break-down.



• Be sure to use accessories and specified parts for installation work.

Use of unspecified parts may result in drop, fire or electric shocks.



• Install the unit properly to a place with sufficient strength to hold the weight. If the place is not strong enough, the unit may drop and cause injury.



• Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circuit. Power source with insufficient and improper work can cause electric shock and fire.



• Shut OFF the main power source before starting electrical work. Otherwise, it could result in electric shocks, break-down or malfunction.



• Do not modify the unit.

It could cause electric shocks, fire, or break-down.



• Be sure to turn OFF the power circuit breaker before repairing/inspecting the unit.

Repairing/inspecting the unit with the power circuit breaker turned ON could cause electric shocks or injury.



• Do not install the unit in appropriate environment or where inflammable gas could generate, flow in, accumulate or leak.



If the unit is used at places where air contains dense oil mist, steam, organic solvent vapor, corrosive gas (ammonium, sulfuric compound, acid, etc) or where acidic or alkaline solution, special spray, etc. are used, it could cause electric shocks, break-down, smoke or fire as a result of significant deterioration of its performance or corrosion.



• Do not install the unit where water vapor is generated excessively or condensation occurs. It could cause electric shocks, fire, or break-down.



• Do not use the unit in a place where it gets wet, such as laundry room. It could cause electric shocks, fire, or break-down.



• Do not operate the unit with wet hands. It could cause electric shocks.

↑ WARNING



Do not wash the unit with water.

It could cause electric shocks, fire, or break-down.



 Use the specified cables for wiring, and connect them securely with care to protect electronic parts from external forces.

Improper connections or fixing could cause heat generation, fire, etc.



When installing the unit at a hospital, telecommunication facility, etc., take measures to suppress electric noises.

It could cause malfunction or break-down due to hazardous effects on the inverter, private power generator, high frequency medical equipment, radio communication equipment, etc. The influences transmitted from the remote control to medical or communication equipment could disrupt medical activities, video broadcasting or cause noise interference.



• Do not leave the remote control with its PCB case removed.

If dew, water, insect, etc. enters through the hole, it could cause electric shocks, fire or break-down.

!CAUTION

- Do not install the wireless kit at the following places in order to avoid malfunction. It could cause break-down or deformation of remote control.
 - (1) Places exposed to direct sunlight
 - (2) Places near heat devices
 - (3) High humidity places
 - generate condensation
 - (5) Places exposed to oil mist or steam directly (10) Places where some object may obstruct the
 - (6) Uneven surface
 - (7) Places affected by the direct air flow of the AC unit
- (8) Places where the receiver is influenced by the fluorescent lamp (especially inverter type) or sunlight
 - (4) Hot surface or cold surface enough to (9) Places where the receiver is affected by infrared rays of any other communication devices

 - communication with the remote control

1)Accessories

Please make sure that you have all of the following accessories.

① Receiver	1	
② Parts set (A)	1	
③ Installation manual	1	

-[① Wireless remote control (RCN-E2)		1
	② Remote control holder		1
	③ Screw for holder	\$	2
	④ AAA dry cell battery (LR03)	0	2
	⑤ User's manual		1

②Preparation before installation

Setting on site

PCB on the receiver has the following switches to set the function.

Default setting is shown with ____ mark.

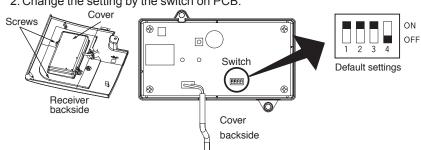
SW1	Prevents interference during plural setting	ON : Normal	OFF : Customized
SW2	Receiver master/ slave setting	ON : Master	OFF : Slave
SW3	Buzzer	ON : Valid	OFF : Invalid
SW4	Auto restart	ON : Valid	OFF : Invalid

Preparation before installation (continued)

To change setting

1. Remove the cover by unscrewing two screws from the back of receiver. plural remote controls

2. Change the setting by the switch on PCB.



Up to two receiver or wired remote control can be installed in one indoor unit group.

Master/Slave setting when using

When two receiver or wired remote control are used, it is necessary to change SW on the PCB to set it as slave.

3. When SW1 is turned to OFF position, change the wireless remote control setting.

For the method of changing the setting, refer to Setting to avoid mixed communication of

Wireless remote control

.

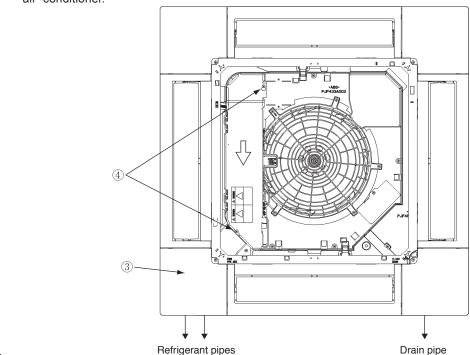
*The receivable area of the signal refer to 5 Receiver .

3 How to install the receiver

The receiver can be installed by replacing with a corner panel on the applicable decorative panel.

Preparation before installation

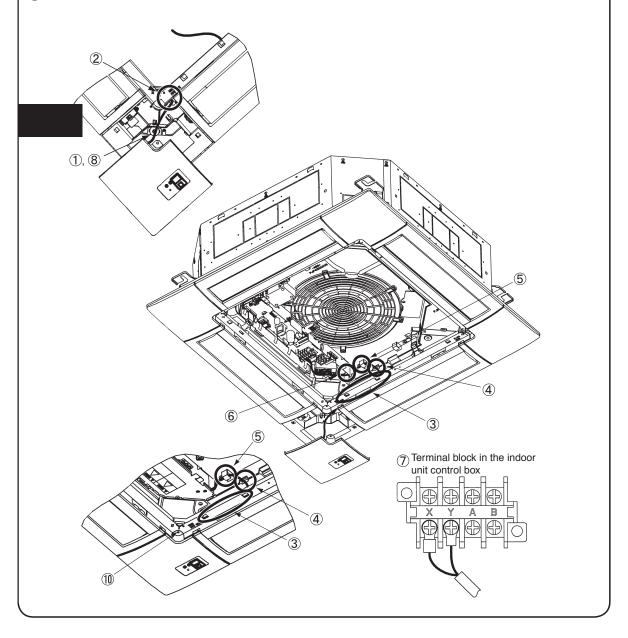
- ① Attach the decorative panel onto the air-conditioner according to the installation manual for the panel.
- 2 Remove the air return grille.
- ③ Remove a corner panel located on the refrigerant pipes side.
- 4 Remove three screws and detach the cover (indicated as shadowed area) from the control box of the air- conditioner.



③ How to install the receiver(continued)

Installation of the receiver

- ① Loosen the bolts which fix the panel and make a gap between the panel and the indoor unit.
- 2 Put the wiring of the receiver through the opening.
- ③ Put the wiring on the notch on the control box so as not to be pinched by the control box and lid as shown below.
- 4 Connect the wiring to the terminal block provided in the control box. (No polarity)
- ⑤ Attach the receiver to the panel according to the panel installation manual.
- ⑥ Fix the wiring with the clamp so that the wiring do not contact the edge of control box's metal sheet.
- ? Reattach the control box lid with 3 screws removed.

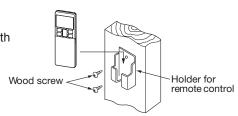


(4) Wireless remote control

Installation tips for the remote control holder

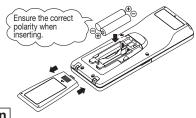
Fix the remote control holder using the screws supplied with this product.

- * Precautions for installing the holder
- Adjust the position so that it is upright.
- Ensure that the screw heads are not protruding.
- Do not attach the holder on plaster wall



How to insert batteries

- 1. Detach the back lid.
- 2. Insert the batteries. (two AAA batteries)
- 3. Reattach the back lid.



Setting to avoid mixed communication

- 1. Detach the back lid, and remove the batteries.
- 2. Cut off the switching wire in the battery compartment using nippers.
- 3. Insert the batteries, and attach the back lid.



Changing the remote control setting

How to change the Auto Run setting

The Auto Run mode is not available on the building air-conditioning and gas heat pump series (excluding the cooling/heating free multi system).

When using the remote control to operate those models, set the remote control to disable the Auto Run mode.

To disable the Auto Run mode, press the ACL switch while holding down the MODE button, or insert batteries while holding down the MODE button.

* Note: Once the batteries are removed, the setting is reset to the factory default. When the batteries are removed, repeat the steps described above.

Indoor function settings

- 1. How to set indoor functions
 - 1) Press the ON/OFF button to stop the unit.
 - ② Press the desired one of the buttons shown item 2. while holding down the FUNCTION SETTING switch.
 - ③ Use the selection buttons, ▲ and ▼, to change the setting.
 - 4 Press the SET button.

The buzzer on the remote control signal receiver beeps twice, and the LED lamp flashes four times at two-second intervals.



4 Wireless remote control (continued)

Setting details
 The following functions can be set.

Button	Number indicator	Function setting
	00	Fun speed setting : Standard
FAN SPEED	01	Fun speed setting: Setting 1 *
	02	Fun speed setting: Setting 2 *
MODE	00	Room heating temperature adjustment : Disable
	01	Room heating temperature adjustment : +1°C
	02	Room heating temperature adjustment : +2°C
	03	Room heating temperature adjustment : +3°C
	00	Filter sign display : OFF
	01	Filter sign display : 180 hours
FILTER	02	Filter sign display: 600 hours
	03	Filter sign display: 1000 hours
	04	Filter sign display: Operation stop after 1000 hours have elapsed
U/P	00	Anti draft setting : Disable
U/P	01	Anti draft setting : Enable
SILENT	00	Infrared sensor setting (Motion sensor setting) : Disable
SILENT	01	Infrared sensor setting (Motion sensor setting) : Enable
	00	Infrared sensor control (Motion sensor control) : Disable
HI POWER	01	Infrared sensor control (Motion sensor control): Power control only
HIPOWER	02	Infrared sensor control (Motion sensor control) : Auto OFF only
	03	Infrared sensor control (Motion sensor control): Power control and Auto OFF
	00	Cooling fan residual-period running : Disable
ON TIMER	01	Cooling fan residual-period running : 0.5 hours
ON TIMER	02	Cooling fan residual-period running : 2 hours
	03	Cooling fan residual-period running : 6 hours
	00	Heating fan residual-period running : Disable
OFF TIMER	01	Heating fan residual-period running : 0.5 hours
	02	Heating fan residual-period running : 2 hours
	03	Heating fan residual-period running : 6 hours
NIOLIT	00	Remote control signal receiver LED : Brightness High
NIGHT SETBACK	01	Remote control signal receiver LED : Brightness Low
CLIDACK	02	Remote control signal receiver LED : OFF

^{*} Refer to service manual.

5 Receiver

1 Control plural indoor units with one remote control

Up to 16 indoor units can be connected.

- 1. Connect the XY terminal with 2 cores wire. As for the size, refer to the following note.
- For Packaged air-conditioner series, set the indoor unit address with SW2 on the indoor unit PCB from [0] to [F] so as not to duplicate.

Restrictions on the thickness and length of wire (Maximun total extension 600m.)

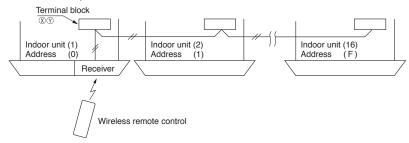
Standard Within 0.3 mm² × 100m

Within $0.5 \text{ mm}^2 \times 200 \text{m}$ Within $0.75 \text{mm}^2 \times 300 \text{m}$

Within 1.25mm² × 400m Within 2.0 mm² × 600m

For the shop series

For VRF series, set the indoor unit address with SW1, SW2 and SW5-2 on the indoor unit PCB from [000] to [127] so as not to duplicate.

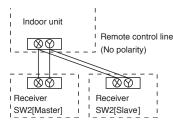


For the building air-conditioning and gas heat pump series

Set the indoor unit and outdoor unit numbers by manually specifying the addresses. Use the rotary switches SW1 and SW2 provided on the indoor unit PCB (printed circuit board) to set the indoor unit numbers so that they are not duplicated.

Master/Slave setting when using plural remote control

Up to two receivers can be installed in one indoor unit group.

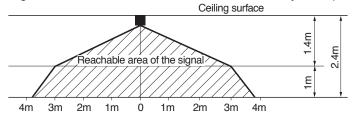


Switch	Setting	Function
SW2	ON	Master
	OFF	Slave

Wireless remote control's operable area

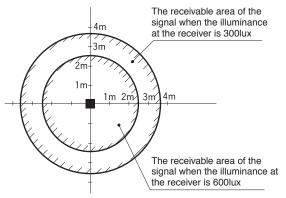
 Standard reachable area of the signal [condition] Illuminance at the receiver: 300lux

(when no lighting is installed within 1m of the receiver in an ordinary office.)



5 Receiver (continued)

2. Correlation between illuminance at the receiver and reachable area of the signal in a plain view. The drawing in the right shows the correlation between the reachable area of the signal and illuminance at the receiver when the remote control is operated at 1.0m high under the condition of ceiling height of 2.4m. When the illuminance becomes double, the area is narrowed down to two thirds.



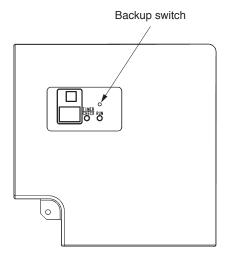
Installation tips when several receivers are installed close
 Minimum distance between the indoor units which can avoid cross communication is 5m under the condition
 of 300lux of illuminance at the receiver.
 (When no lighting is installed within 1m of the receiver in an ordinary office)

(When no lighting is installed within the of the receiver in an ordinary office

Backup switch

A backup switch is provided on the receiver. Even when the operation from the wireless remote control is not possible (due to flat batteries, control lost, or control failure), still it possible to operate as temporary means. Press the switch directly when operating it.

- The air-conditioner starts the operation with the condition of Auto mode, 23°C of set point, High fan speed and horizontal louver position.
- 2. The air-conditioner stops the operation when the switch is pressed when in operation.



Cooling test run operation

- After safety confirmation, turn on the power.
- Transmit a cooling operation command with the wireless remote control unit, while the backup switch on the receiver is depressed.
- If the backup switch on the receiver is pressed during a test run, it will end the test run.
- If you cannot operate the unit properly during a test run, please check wiring by consulting with inspection guides.

How to read the 2-digit display

On the receiver of a wireless kit, a two-digit (7-segment) display is provided.

- 1. An indication will be displayed for one hour after power on.
- 2. An indication will be displayed for 3.5 seconds after transmitting a "STOP" command from the wireless remote control or the operation of the backup switch to stop the unit.
- 3. An indication appearing in (1) or (2) above will go off as soon as the unit starts operation.
- 4. When there are no error records to indicate, addresses of all the connected units are displayed.
- 5. When there are some error records remaining, the error records are displayed.
- 6. Error records can be cleared by transmitting a "STOP" command from the wireless remote control, while the backup button is pressed.

3.1.2 FDTC series (RCN-TC-5AW-E2)

Safety precautions

•Please read this manual carefully before starting installation work to install the unit properly. All of the following are important information to be observed strictly.

⚠WARNING Failure to follow these instructions properly may result in serious consequences such as death, severe injury, etc.

<u>^</u>CAUTION Failure to follow these instructions properly may cause injury or property damage. It could have serious consequences depending on the circumstances.

•The following symbols are used in the text.



Never do.



Always follow the instructions given.

•Keep this manual at a safe place where you can consult with whenever necessary. Show this manual to installers when moving or repairing the unit. When the ownership of the unit is transferred, this manual should be given to the new owner.

WARNING



Consult your dealer or a professional contractor to install the unit.
 Improper installation made on your own may cause electric shocks, fire or dropping of the unit.



• Installation work should be performed properly according to this installation manual. Improper installation work may result in electric shocks, fire or break-down.



• Be sure to use accessories and specified parts for installation work.

Use of unspecified parts may result in drop, fire or electric shocks.



• Install the unit properly to a place with sufficient strength to hold the weight. If the place is not strong enough, the unit may drop and cause injury.



• Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circuit.

Power source with insufficient and improper work can cause electric shock and fire.



• Shut OFF the main power source before starting electrical work. Otherwise, it could result in electric shocks, break-down or malfunction.



Do not modify the unit.

It could cause electric short

It could cause electric shocks, fire, or break-down.



• Be sure to turn OFF the power circuit breaker before repairing/inspecting the unit.

Repairing/inspecting the unit with the power circuit breaker turned ON could cause electric shocks or injury.



• Do not install the unit in appropriate environment or where inflammable gas could generate, flow in, accumulate or leak.

If the unit is used at places where air contains dense oil mist, steam, organic solvent vapor, corrosive gas (ammonium, sulfuric compound, acid, etc) or where acidic or alkaline solution, special spray, etc. are used, it could cause electric shocks, break-down, smoke or fire as a result of significant deterioration of its performance or corrosion.



• Do not install the unit where water vapor is generated excessively or condensation occurs. It could cause electric shocks, fire, or break-down.



• Do not use the unit in a place where it gets wet, such as laundry room. It could cause electric shocks, fire, or break-down.



• Do not operate the unit with wet hands. It could cause electric shocks.

⚠ WARNING



Do not wash the unit with water.

It could cause electric shocks, fire, or break-down.



Use the specified cables for wiring, and connect them securely with care to protect electronic parts from external forces.

Improper connections or fixing could cause heat generation, fire, etc.



When installing the unit at a hospital, telecommunication facility, etc., take measures to suppress electric noises.

It could cause malfunction or break-down due to hazardous effects on the inverter, private power generator, high frequency medical equipment, radio communication equipment, etc. The influences transmitted from the remote control to medical or communication equipment could disrupt medical activities, video broadcasting or cause noise interference.



Do not leave the remote control with its PCB case removed.

If dew, water, insect, etc. enter through the hole, it could cause electric shocks, fire or break-down.

♠ CAUTION

- Do not install the wireless kit at the following places in order to avoid malfunction. It could cause break-down or deformation of remote control.
 - (1) Places exposed to direct sunlight
 - (2) Places near heat-generating devices
 - (3) High humidity places
 - (4) Hot surface or cold surface enough to (9) Places where the receiver is affected by infrared generate condensation
 - (5) Places exposed to oil mist or steam directly (10) Places where some object may obstruct the
 - (6) Uneven surface
 - (7) Places affected by the direct air flow of the AC unit
- (8) Places where the receiver is influenced by fluorescent lamp (especially inverter type) or sunlight
 - rays of any other communication devices
 - communication with the remote control

1 Accessories Please make sure that you have all of the following accessories. 1) Wireless remote control (RCN-E2) Receiver 1 ⑤ Bracket mounting screw 2 Remote control holder 1 2 PCB 6 Wiring (For communication) 1 (3) Screw for holder 2 4 AAA dry cell battery (LR03) 2 ③ PCB mounting support Wiring (For receiving) 1 ⑤ User's manual 1 ④ Bracket (Sheet metal) 8 Installation manual 9 Parts set

(2) Preparation before installation

Setting of PCB

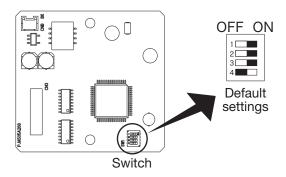
Accessory PCB has the following switches to set the functions. Default setting is shown with

SW1	Prevents interference during multiple setting	ON : Normal OFF : Remote
SW2	Receiver master/slave setting	ON : Master OFF : Slave
SW3	Buzzer	ON : Valid OFF : Invalid
SW4	Auto restart	ON : Valid OFF : Invalid

2 Preparation before installation (continued)

To change setting

1. Change the setting of switches on the accessory PCB.



Master/Slave setting when using multiple remote controls

Up to two receivers or wired remote controls can be installed on one indoor unit group. In such occasion, it is necessary to change the setting to slave on either one.

To change the setting on the receiver, refer to the instruction manual of the receiver.

2. When SW1 is turned to OFF position, change the wireless remote control setting.

For the method of changing the setting, refer to Setting to avoid mixed communication of Wireless remote control.

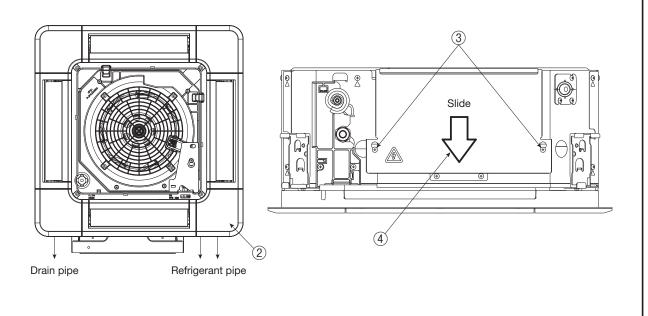
*For the receivable area of the signal, refer to ⑤ Receiver .

(3) How to install the receiver

It is possible to install the receiver by replacing the corner lid on the panel.

Preparation before installation

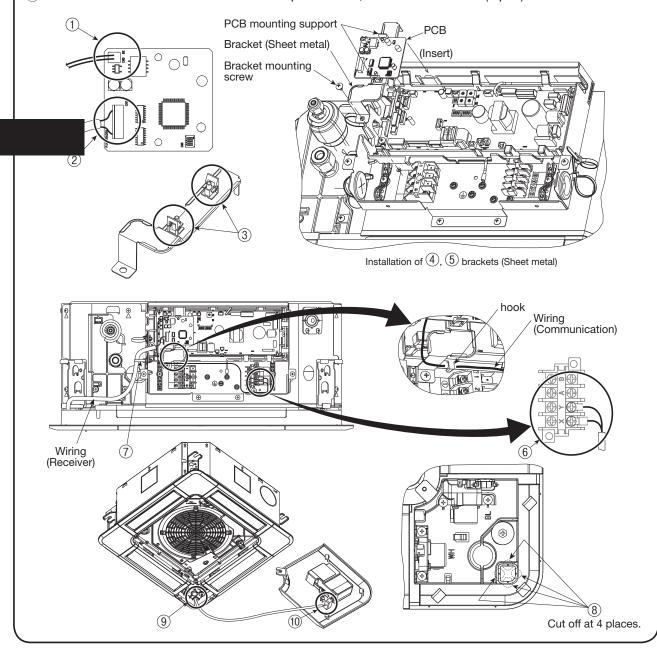
- (1) Remove the inlet grille according to the installation manual of the panel.
- ② Remove the corner lid at the refrigerant pipe side.
- 3 Loosen screws (2 pcs) on the control box of the unit.
- 4) Slide the control lid in the arrow direction, and remove it.



3 How to install the receiver (continued)

Installation of the receiver

- ① Connect the wire connector (Communication) to CNB on PCB.
- (2) Connect the wire connector (Receiver) to CN3 on PCB.
- (3) Install the PCB mounting supports on the bracket (Sheet metal).
- 4 Install PCB on the PCB mounting supports.
- (5) Insert the bracket (Sheet metal) in one side of control box, and fix the other side with screws as shown in the figure.
- 6 Connect round terminals of wires (Communication) to the terminal block (X, Y) in the control box. The wires have no polarity.
- 7 Fix wires with bands as shown in the figure.
- (8) Cut off the half-blanks on the panel (at 4 places) as shown in the figure.
- (9) Pass the wiring (Communication) through the opening on the panel.
- (10) Connect connectors of the wiring (Communication) and the receiver.
- (1) Install the receiver on the panel according to the installation manual of the panel.
- (2) Install the control box lid with care not to pinch wires, and fix with screws (2 pcs).

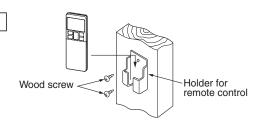


Wireless remote control

Installation tips for the remote control holder

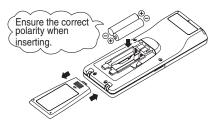
Fix the remote control holder using the screws supplied with this product.

- * Precautions for installing the holder
- · Adjust the position so that it is upright.
- · Ensure that the screw heads are not protruding.
- · Do not attach the holder on plaster wall.



How to insert batteries

- 1. Detach the back lid.
- 2. Insert the batteries. (two AAA batteries)
- 3. Reattach the back lid.



Setting to avoid mixed communication

- 1. Detach the back lid, and remove the batteries.
- 2. Cut off the switching wire in the battery compartment using nippers.
- 3. Insert the batteries, and attach the back lid.



g the remote control setting

How to change the Auto Run setting

The Auto Run mode is not available on the building air-conditioning and gas heat pump series (excluding the cooling/heating free multi system).

When using the remote control to operate those models, set the remote control to disable the Auto Run mode.

To disable the Auto Run mode, press the ACL switch while holding down the MODE button, or insert batteries while holding down the MODE button.

* Note: Once the batteries are removed, the setting is reset to the factory default. When the batteries are removed, repeat the steps described above.

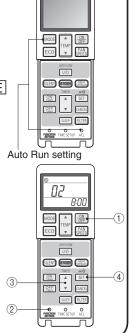
Indoor function settings

- 1. How to set indoor functions
 - 1 Press the ON/OFF button to stop the unit.

ss the desired one of the buttons shown item **2.** while holding down the NCTION SETTING switch.

- ③ Use the selection buttons ▲ and ▼ to change the setting.
- (4) Press the SET button.

The buzzer on the remote control signal receiver beeps twice, and the LED lamp flashes four times at two-second intervals.



4 Wireless remote control (continued)

2. Setting details
The following functions can be set.

Button	Number indicator	Function setting
	00	Fun speed setting : Standard
FAN SPEED	01	Fun speed setting : Setting 1 *
02		Fun speed setting: Setting 2 *
	00	Room heating temperature adjustment : Disable
MODE	01	Room heating temperature adjustment : +1°C
MODE	02	Room heating temperature adjustment : +2°C
	03	Room heating temperature adjustment: +3°C
	00	Filter sign display : OFF
	01	Filter sign display: 180 hours
FILTER	02	Filter sign display: 600 hours
	03	Filter sign display: 1000 hours
	04	Filter sign display: Operation stop after 1000 hours have elapsed
U/P 00 Anti draft setting : Disable (Up/Down) 01 Anti draft setting : Enable		Anti draft setting : Disable
		Anti draft setting: Enable
OII ENT	00	Infrared sensor setting (Motion sensor setting) : Disable
SILENT	01	Infrared sensor setting (Motion sensor setting) : Enable
	00	Infrared sensor control (Motion sensor control) : Disable
LII DOWED	01	Infrared sensor control (Motion sensor control) : Power control only
HI POWER	02	Infrared sensor control (Motion sensor control) : Auto OFF only
	03	Infrared sensor control (Motion sensor control) : Power control + Auto OFF
	00	Cooling fan residual-period running : Disable
ON TIMER	01	Cooling fan residual-period running : 0.5 hours
ON HIVIER	02	Cooling fan residual-period running : 2 hours
	03	Cooling fan residual-period running : 6 hours
	00	Heating fan residual-period running : Disable
OFF TIMER	01	Heating fan residual-period running : 0.5 hours
	02	Heating fan residual-period running : 2 hours
	03	Heating fan residual-period running : 6 hours
	00	Remote control signal receiver LED : Brightness High
NIGHT SETBACK	01	Remote control signal receiver LED : Brightness Low
SLIDAUN	02	Remote control signal receiver LED : OFF

5 Receiver

1 Control multiple indoor units with one remote control

Up to 16 indoor units can be connected.

- 1. Connect the XY terminal with 2 cores wire. As for the size, refer to the note on the right.
- 2. For Packaged air-conditioner series, set the indoor unit address with SW2 on the indoor unit PCB from [1] to [F] so as not to duplicate.

Restrictions on the thickness and length of wire (Maximum length is 600m.)

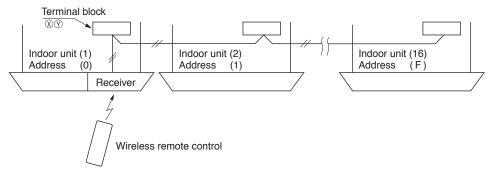
Standard Within 0.3 mm² × 100m

Within $0.5 \text{ mm}^2 \times 200 \text{m}$ Within $0.75 \text{mm}^2 \times 300 \text{m}$ Within $1.25 \text{mm}^2 \times 400 \text{m}$

Within 2.0 mm² × 600m

For the shop series

For VRF series, set the indoor unit address with SW1, SW2 and SW5-2 on the indoor unit PCB from [000] to [127] so as not to duplicate.



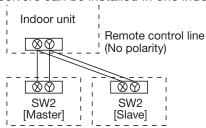
For the building air-conditioning and gas heat pump series

Set the indoor unit and outdoor unit numbers by manually specifying the addresses.

Use the rotary switches SW1 and SW2 provided on the indoor unit PCB (printed circuit board) to set the indoor unit numbers so that they are not duplicated.

Master/Slave setting when using multiple remote control

Up to two receivers can be installed in one indoor unit group.



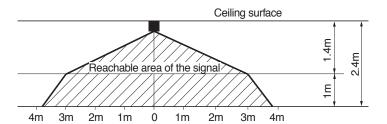
Switch	Setting	Function
SW2	ON	Master
	OFF	Slave

Wireless remote control's operable area

1. Standard reachable area of the signal

[Condition] Illuminance at the receiver: 300lux

(When no lighting is installed within 1m of the receiver in an ordinary office)



(5) Receiver (continued)

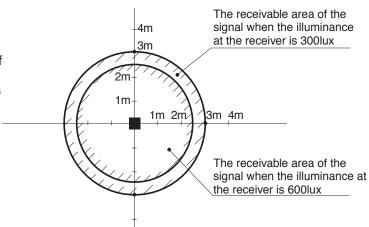
2. Correlation between illuminance at the receiver and reachable area of the signal in a plain view.

The drawing in the right shows the correlation between the reachable area of the signal and illuminance

at the receiver when the remote control is operated at 1m high

under the condition of ceiling height of 2.4m.

When the illuminance becomes double, the area is narrowed down to two thirds.



3. Installation tips when several receivers are installed close to one another.

Minimum distance between the indoor units which can avoid cross communication is 5m under the condition of 300lux of illuminance at the receiver.

(When no lighting is installed within 1m of the receiver in an ordinary office)

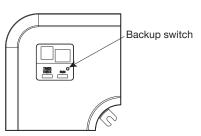
Backup switch

A backup switch is provided on the receiver section of the panel surface.

When operation from the wireless remote control unit is not possible (due to flat batteries, a mislaid unit, a unit failure), you can use it as an emergency means. You should operate this switch manually.

If pressed while the air-conditioner is in a halt, it will cause the air-conditioner to start operation in the automatic mode (In case of cooling only, it is in the cooling mode).
 Wind speed: Hi fan, Temperature setting: 23°C, Louver: horizontal

2. If pressed while the air-conditioner is in operation, it will stop the air-conditioner.



Cooling test run operation

- · After safety confirmation, turn on the power.
- Transmit a cooling operation command with the wireless remote control unit, while the backup switch on the receiver is pressed.
- If the backup switch on the receiver is pressed during a test run, it will end the test run.
- If you cannot operate the unit properly during a test run, please check wiring by consulting with inspection guides.

How to read the two-digit display

On the receiver of a wireless kit, a two-digit (7-segment) display is provided.

- 1. An indication will be displayed for one hour after power on.
- 2. An indication will be displayed for 3.5 seconds after transmitting a "STOP" command from the wireless remote control or the operation of the backup switch to stop the unit.
- 3. An indication appearing in (1) or (2) above will go off as soon as the unit starts operation.
- 4. When there are no error records to indicate, addresses of all the connected units are displayed.
- 5. When there are some error records remaining, the error records are displayed.
- 6. Error records can be cleared by transmitting a "STOP" command from the wireless remote control, while the backup button is pressed.

3.1.3 FDU, FDUM series (RCN-KIT4-E2)

PJZ012D112A

Safety precautions

•Please read this manual carefully before starting installation work to install the unit properly. Every one of the followings is important information to be observed strictly.

MARNING Failure to follow these instructions properly may result in serious consequences such as death, severe injury, etc.

⚠CAUTION Failure to follow these instructions properly may cause injury or property damage. It could have serious consequences depending on the circumstances.

•The following pictograms are used in the text.

$\overline{\frown}$	1
(\mathcal{Y})	

Never do.



Always follow the instructions given.

• Keep this manual at a safe place where you can consult with whenever necessary. Show this manual to installers when moving or repairing the unit. When the ownership of the unit is transferred, this manual should be given to a new owner.

↑ WARNING



• Consult your dealer or a professional contractor to install the unit.

Improper installation made on your own may cause electric shocks, fire or dropping of the unit.



• Installation work should be performed properly according to this installation manual. Improper installation work may result in electric shocks, fire or break-down.



• Be sure to use accessories and specified parts for installation work.

Use of unspecified parts may result in drop, fire or electric shocks.



• Install the unit properly to a place with sufficient strength to hold the weight. If the place is not strong enough, the unit may drop and cause injury.



• Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circuit.

Power source with insufficient and improper work can cause electric shock and fire.



• Shut OFF the main power source before starting electrical work. Otherwise, it could result in electric shocks, break-down or malfunction.



• Do not modify the unit.

It could cause electric shocks, fire, or break-down.



• Be sure to turn OFF the power circuit breaker before repairing/inspecting the unit.

Repairing/inspecting the unit with the power circuit breaker turned ON could cause electric shocks or injury.



• Do not install the unit in appropriate environment or where inflammable gas could generate, flow in, accumulate or leak.

If the unit is used at places where air contains dense oil mist, steam, organic solvent vapor, corrosive gas (ammonium, sulfuric compound, acid, etc) or where acidic or alkaline solution, special spray, etc. are used, it could cause electric shocks. break-down, smoke or fire as a result of significant deterioration of its performance or corrosion.



• Do not install the unit where water vapor is generated excessively or condensation occurs. It could cause electric shocks, fire, or break-down.



• Do not use the unit in a place where it gets wet, such as laundry room. It could cause electric shocks, fire, or break-down.



Do not operate the unit with wet hands.
It could cause electric shocks.

↑ WARNING



Do not wash the unit with water.

It could cause electric shocks, fire, or break-down.



 Use the specified cables for wiring, and connect them securely with care to protect electronic parts from external forces.

Improper connections or fixing could cause heat generation, fire, etc.



When installing the unit at a hospital, telecommunication facility, etc., take measures to suppress electric noises.

It could cause malfunction or break-down due to hazardous effects on the inverter, private power generator, high frequency medical equipment, radio communication equipment, etc. The influences transmitted from the remote control to medical or communication equipment could disrupt medical activities, video broadcasting or cause noise interference.



• Do not leave the remote control with its PCB case removed.

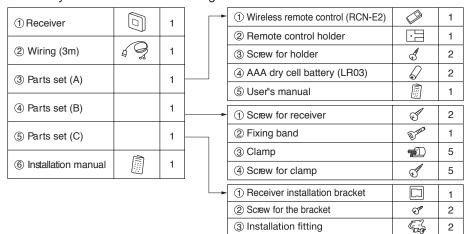
If dew, water, insect, etc. enters through the hole, it could cause electric shocks, fire or break-down.

⚠ CAUTION

- Do not install the wireless kit at the following places in order to avoid malfunction. It could cause break-down or deformation of remote control.
 - (1) Places exposed to direct sunlight
 - (2) Places near heat devices
 - (3) High humidity places
 - (4) Hot surface or cold surface enough to (9) Places where the receiver is affected by infrared generate condensation
 - (5) Places exposed to oil mist or steam directly (10) Places where some object may obstruct the
 - (6) Uneven surface
 - (7) Places affected by the direct air flow of the AC unit
- (8) Places where the receiver is influenced by the fluorescent lamp (especially inverter type) or sunlight
 - rays of any other communication devices
 - communication with the remote control

(1) Accessories

Please make sure that you have all of the following accessories.



(2) Preparation before installation

Setting on site

PCB on the receiver has the following switches to set the function. Default setting is shown with mark.

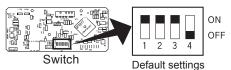
SW1	Prevents interference during plural setting	ON : Normal	OFF : Customized
SW2	Receiver master/ slave setting	ON : Master	OFF : Slave
SW3			
SW4	Auto restart	ON : Valid	OFF : Invalid

② Preparation before installation (continued)

To change setting

- 1. Remove one screws located on the under of the receiver and detach the board.
- 2. Change the setting by the switch on PCB.





3. When SW1 is turned to OFF position, change the wireless remote control setting For the method of changing the setting, refer to Setting to avoid mixed communication of 4 Wireless remote control

*The receivable area of the signal refer to (5) Receiver

Master/Slave setting when using plural remote controls

Up to two receiver or wired remote control can be installed in one indoor unit group.

When two receiver or wired remote control are used, it is necessary to change SW on the PCB to set it as slave.

(3) How to install the receiver

The following two methods can be used to install the receiver onto a ceiling or a wall. Select a method according to the installation position.

<Installation position>

- (A) Direct installation onto the ceiling with wood screws.
- (B) Installation with accessory's bracket

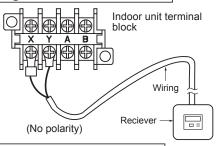
(1) Drilling of the ceiling (ceiling opening)

Drill the receiver installation holes with the dimensions shown right at the ceiling position where wires can be connected.



(A) Direct installation onto the ceiling with wood screws.	88mm(H)×101mm(W)
(B) Installation with enclosed bracket	108mm(H)×108mm(W)

(2) Wiring connection of receiver



Caution

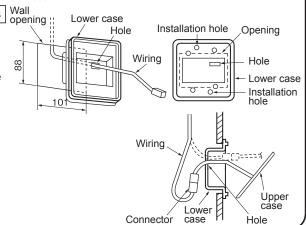
Do not connect the wiring to the power source of the terminal block. If it is connected, printed board will be damaged.

(3) Installation of the receiver

Remove the screw on the side of the receiver and sprit it into the upper case and lower case. Install the receiver with one of the two installation methods (A) to (C) shown below.

(A) Direct installation onto the ceiling with screws

- Use this installation method when the ceiling is wooden, and there is no problem for strength in installing directly with wood screws.
- 1) Put through the wiring from the back side to the hole of the lower case.
- 2 Fit the lower case into the ceiling opening. Make sure that the clearance between the convex part of the back of the lower case and the ceiling opening must be as equal as possible on both sides.
- 3 Using the two installation holes shown right, fix the lower case onto the ceiling with the enclosed wood screws. (The other four holes are not used.)
- 4 Connect the wiring with the wiring from the upper case by the connector.

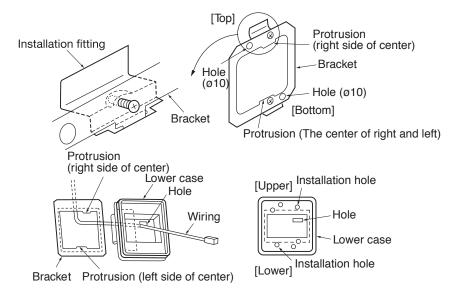


③ How to install the receiver(continued)

- 5 Take out the connector to the backside from the hole of the lower case putting through the wiring at 1).
- 6 Fit the upper case and the lower case, and tighten the screws.

(B) Installation with enclosed bracket

Use this method when installaing onto a gypsum board (7 to 18mm), etc.

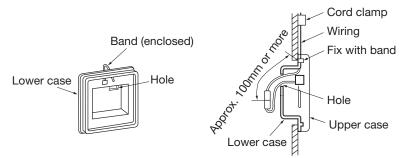


- ① Catch the two protrusion of the enclosed bracket onto the fitting as shown above, and temporarily fix with the screws. (The bracket has an Upper/Lower and front/back orientation. Confirm the Upper/Lower protrusion positions and the positional relation of the ø10 holes on the bracket and the installation hole on the lower case with the above drawing.)
- ② Insert the end of the installation fitting into the back of the ceiling from the opening, and tighten the screws to fix the bracket onto the ceiling.
- 3 Pass the wiring from the rear side through the hole on the lower case.
- Fit the lower case onto the bracket, and fix the lower case to the bracket using the two installation holes shown above. (The other four holes are not used.)
- ⑤ Follow step ① to ⑥ for (A) to complete the installation.

③ How to install the receiver (continued)

(C) Exposed installation

Use the following procedure when installing the case with the wiring exposed.



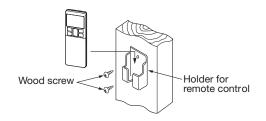
- ① Cut off the thin section on the side of the upper case with a pair of nippers or a knife, and remove the burrs with a file, etc. (The wiring is passed through this section.)
- ② Pass the enclosed band through the wiring outlet hole on the lower case.
- ③ Use on of the light detection adaptor installation methods (A) or (B) explained in section 3, and fix the lower case onto the wall. Do not pass the wiring through the hole on the lower case.
- 4 Fix the wiring using the band while leaving the wiring length from the band fixing section to the end of the wiring connector at 100mm or more.
- (5) Connect the wiring with the wiring protruding front the upper case using a connector.
- (6) Pass the connected connector and the excess wiring through the hole on the lower case.
- Tit the upper case onto the lower case, and tighten the screws.
- 8 Adequately fix the wiring with the enclesed cord clamp.

(4) Wireless remote control

Installation tips for the remote control holder

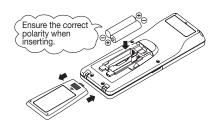
Fix the remote control holder using the screws supplied with this product.

- * Precautions for installing the holder
- Adjust the position so that it is upright.
- Ensure that the screw heads are not protruding.
- Do not attach the holder on plaster wall.



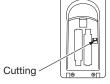
How to insert batteries

- 1. Detach the back lid.
- 2. Insert the batteries. (two AAA batteries)
- 3. Reattach the back lid.



Setting to avoid mixed communication

- 1. Detach the back lid, and remove the batteries.
- 2. Cut off the switching wire in the battery compartment using nippers.
- 3. Insert the batteries, and attach the back lid.



4 Wireless remote control (continued)

Changing the wireless remote control setting

How to change the Auto Run setting

The Auto Run mode is not available on the building air-conditioner and gas heat pump series (excluding the cooling/heating free multi system).

When using the wireless remote control to operate those models, set the wireless remote control to disable the Auto Run mode.

To disable the Auto Run mode, press the ACL switch while holding down the MODE button, or insert batteries while holding down the MODE button.

* Note: Once the batteries are removed, the setting is reset to the factory default. When the batteries are removed, repeat the steps described above.

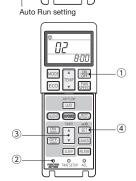
Indoor function settings

- 1. How to set indoor functions
 - 1) Press the ON/OFF button to stop the unit.
 - ② Press the desired one of the buttons shown below while holding down the FUNCTION SETTING switch.
 - ③ Use the selection buttons, ▲ and ▼, to change the setting.
 - (4) Press the SET button.

The buzzer on the wireless remote control signal receiver beeps twice, and the LED lamp flashes four times at two-second intervals.

2. Setting details

The following functions can be set.



SIENT (IVVIE) (#

Button	Number indicator	Function setting	Button	Number indicator	Function setting
	00	Fun speed setting : Standard		00	Cooling fan residual-period running : Disable
FAN SPEED	01	Fun speed setting : Setting 1 *	ON TIMER	01	Cooling fan residual-period running : 0.5 hours
	02	Fun speed setting : Setting 2 *	ON THINLIN	02	Cooling fan residual-period running : 2 hours
	00	Room heating temperature adjustment : Disable		03	Cooling fan residual-period running : 6 hours
	01	Room heating temperature adjustment : +1°C		00	Heating fan residual-period running : Disable
	02	Room heating temperature adjustment : +2°C	OFF TIMER	01	Heating fan residual-period running : 0.5 hours
	03	Room heating temperature adjustment : +3°C	OFF HIMER	02	Heating fan residual-period running : 2 hours
	00	Filter sign display : OFF		03	Heating fan residual-period running : 6 hours
	01	Filter sign display : 180 hours	NICHT	00	Remote control signal receiver LED : Brightness High
FILTER	02	Filter sign display : 600 hours	NIGHT SETBACK	01	Remote control signal receiver LED : Brightness Low
I ILI LIX	03	Filter sign display : 1000 hours	CETBAOK	02	Remote control signal receiver LED : OFF
	04	Filter sign display : Operation stop after 1000 hours have elapsed	* Refer to service manual		
U/P	00	Anti draft setting : Disable			
0/P	01	Anti draft setting : Enable			
SILENT	00	Infrared sensor setting (Motion sensor setting) : Disable			
SILEIVI	01	Infrared sensor setting (Motion sensor setting) : Enable	1		
	00	Infrared sensor control (Motion sensor control) : Disable			
	01	Infrared sensor control (Motion sensor control) : Power control only			
HI POWER	02	Infrared sensor control (Motion sensor control) :			

5 Receiver

1 Control plural indoor units with one remote control

Auto OFF only

Power control and Auto OFF

Infrared sensor control (Motion sensor control):

Up to 16 indoor units can be connected.

- 1. Connect the XY terminal with 2 cores wire. As for the size, refer to the following note.
- 2. For Packaged air-conditioner series, set the indoor unit address with SW2 on the indoor unit PCB from [0] to [F] so as not to duplicate.

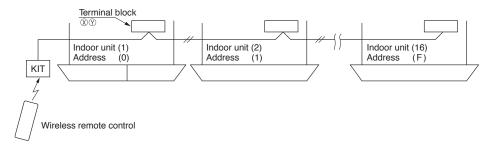
Restrictions on the thickness and length of wire (Maximun total extension 600m.)

 $\begin{array}{cccc} Standard & Within & 0.3 \text{ mm}^2 \times 100m \\ & Within & 0.5 \text{ mm}^2 \times 200m \\ & Within & 0.75 \text{mm}^2 \times 300m \\ & Within & 1.25 \text{mm}^2 \times 400m \\ & Within & 2.0 \text{ mm}^2 \times 600m \end{array}$

5 Receiver (continued)

For the shop series

For VRF series, set the indoor unit address with SW1, SW2 and SW5-2 on the indoor unit PCB from [000] to [127] so as not to duplicate.

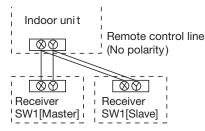


For the building air-conditioner and gas heat pump series

Set the indoor unit and outdoor unit numbers by manually specifying the addresses. Use the rotary switches SW1 and SW2 provided on the indoor unit PCB (printed circuit board) to set the indoor unit numbers so that they are not duplicated.

Master/Slave setting when using plural remote control

Up to two receivers can be installed in one indoor unit group.

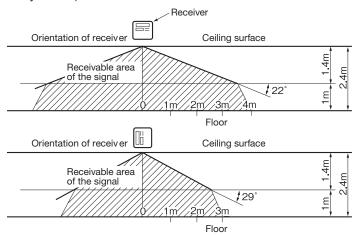


Switch	Setting	Function
SW2	ON	Master
3002	OFF	Slave

When installed on ceiling

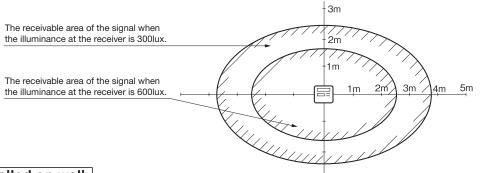
1. Standard reachable area of the signal

[Condition] Illuminance at the receiver : **300lux** (when no lighting is installed within 1m of the receiver in an ordinary office.)



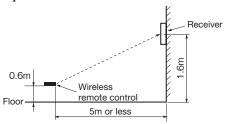
2. Correlation between illuminance at the receiver and reachable area of the signal in a plain view.
[Condition] Correlation between the reachable area of the signal and illuminance at the receiver when the wireless remote control is operated at 1m high under the condition of ceiling height of 2.4m. When the illuminance becomes double, the area is narrowed down to two third.

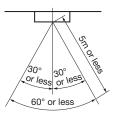
(5) Receiver (continued)



When installed on wall

[Condition] Illuminance at the receiver: 800lux.

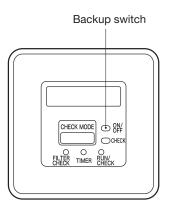




Backup switch

A backup switch is provided on the receiver section of the panel surface. When operation from the wireless remote control unit is not possible (due to flat batteries, a mislaid unit, a unit failure), you can use it as an emergency means. You should operate this switch manually.

- 1. If pressed while the air-conditioner is in a halt, it will cause the air-conditioner to start operation in the automatic mode (in the case of cooling only, in the cooling mode). Wind speed: Hi fan, Temperature setting: 23°C, Louver: horizontal
- If pressed while the air-conditioner is in operation, it will stop the airconditioner.



Cooling test run operation

- After safety confirmation, turn on the power.
- Transmit a cooling operation command with the wireless remote control unit, while the backup switch on the receiver is depressed.
- If the backup switch on the receiver is pressed during a test run, it will end the test run.
- If you cannot operate the unit properly during a test run, please check wiring by consulting with inspection guides.

How to read the 6-digit display

A 6-digit indicator (7-segment indicator) is provided on the receiver section.

- 1. An indication will be displayed for one hour after power on.
- 2. An indication appears for 3.5 seconds when a "Stop" command is sent from the wireless remote control unit while the air-conditioner is not running.
- 3. An indication appearing in (1) or (2) above will go off as soon as the unit starts operation.
- 4. When there are no error records to indicate, addresses are displayed for all of the connected units.
- 5. When there are some error records remaining, the error records are displayed.
- 6. Error records can be cleared by transmitting a "Stop" command from the wireless remote control unit, while the backup switch is depressed.

PFA012D635

3.1.4 FDE series (RCN-E-E3)

Safety precautions

•Please read this manual carefully before starting installation work to install the unit properly. Every one of the followings is important information to be observed strictly.

MARNING Failure to follow these instructions properly may result in serious consequences such as death, severe injury, etc.

⚠CAUTION Failure to follow these instructions properly may cause injury or property damage. It could have serious consequences depending on the circumstances.

•The following pictograms are used in the text.

 \bigcirc

Never do.



Always follow the instructions given.

• Keep this manual at a safe place where you can consult with whenever necessary. Show this manual to installers when moving or repairing the unit. When the ownership of the unit is transferred, this manual should be given to a new owner.

! WARNING



• Consult your dealer or a professional contractor to install the unit.

Improper installation made on your own may cause electric shocks, fire or dropping of the unit.



• Installation work should be performed properly according to this installation manual. Improper installation work may result in electric shocks, fire or break-down.



• Be sure to use accessories and specified parts for installation work.
Use of unspecified parts may result in drop, fire or electric shocks.



• Install the unit properly to a place with sufficient strength to hold the weight. If the place is not strong enough, the unit may drop and cause injury.



• Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circuit. Power source with insufficient and improper work can cause electric shock and fire.



Shut OFF the main power source before starting electrical work.
 Otherwise, it could result in electric shocks, break-down or malfunction.



• Do not modify the unit.

It could cause electric shocks, fire, or break-down.



• Be sure to turn OFF the power circuit breaker before repairing/inspecting the unit.

Repairing/inspecting the unit with the power circuit breaker turned ON could cause electric shocks or injury.



• Do not install the unit in appropriate environment or where inflammable gas could generate, flow in, accumulate or leak.

If the unit is used at places where air contains dense oil mist, steam, organic solvent vapor, corrosive gas (ammonium, sulfuric compound, acid, etc) or where acidic or alkaline solution, special spray, etc. are used, it could cause electric shocks, break-down, smoke or fire as a result of significant deterioration of its performance or corrosion.



• Do not install the unit where water vapor is generated excessively or condensation occurs. It could cause electric shocks, fire, or break-down.



• Do not use the unit in a place where it gets wet, such as laundry room. It could cause electric shocks, fire, or break-down.



• Do not operate the unit with wet hands. It could cause electric shocks.

⚠ WARNING



• Do not wash the unit with water.

It could cause electric shocks, fire, or break-down.



• Use the specified cables for wiring, and connect them securely with care to protect electronic parts from external forces.

Improper connections or fixing could cause heat generation, fire, etc.



When installing the unit at a hospital, telecommunication facility, etc., take measures to suppress electric noises.

It could cause malfunction or break-down due to hazardous effects on the inverter, private power generator, high frequency medical equipment, radio communication equipment, etc. The influences transmitted from the remote control to medical or communication equipment could disrupt medical activities, video broadcasting or cause noise interference.



Do not leave the remote control with its PCB case removed.

If dew, water, insect, etc. enters through the hole, it could cause electric shocks, fire or break-down.

!\CAUTION

- Do not install the wireless kit at the following places in order to avoid malfunction. It could cause break-down or deformation of remote control.
 - (1) Places exposed to direct sunlight
 - (2) Places near heat devices
 - (3) High humidity places
 - generate condensation
 - (5) Places exposed to oil mist or steam directly (10) Places where some object may obstruct the
 - (6) Uneven surface
 - (7) Places affected by the direct air flow of the AC unit.
- (8) Places where the receiver is influenced by the fluorescent lamp (especially inverter type) or sunlight.
 - (4) Hot surface or cold surface enough to (9) Places where the receiver is affected by infrared rays of any other communication devices.
 - - communication with the remote control

1 Accessories

Please make sure that you have all of the following accessories.

1 Receiver	\[\]:	1
② Parts set		1
③ Installation manual		1
④ Wiring		1

-	① Wireless remote control (RCN-E2)	1
	② Remote control holder	1
	3 Screw for holder	\$ 2
	④ AAA dry cell battery (LR03)	2
	⑤ User's manual	1

(2) Preparation before installation

Setting on site

PCB on the receiver has the following switches to set the function.

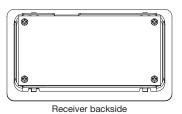
Default setting is shown with mark.

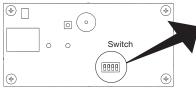
SW1	Prevents interference during plural setting	ON : Normal OFF : Customized
SW2	Receiver master/slave setting	ON : Master OFF : Slave
SW3	Buzzer	ON : Valid OFF : Invalid
SW4	Auto restart	ON : Valid OFF : Invalid

(2) Preparation before installation (continued)

To change setting

- 1. Remove four screws located on the back of the receiver and detach the board.
- 2. Change the setting by the switch on PCB.







Master/Slave setting when using plural remote controls

Up to two receiver or wired remote OFF control can be installed in one Default settings indoor unit group. When two receiver or wired remote control are used, it is necessary to change SW on the PCB to set it as slave.

3. When SW1 is turned to OFF position, change the wireless remote control setting. For the method of changing the setting, refer to Setting to avoid mixed communication of (5) Wireless remote control

*The receivable area of the signal refer to 6 Receiver

(3) How to install the receiver

The receiver can be installed by replacing with a cover of the panel. CAUTION: When installing the receiver after unit has been fixed, injury due to falling may result because of working at high place.

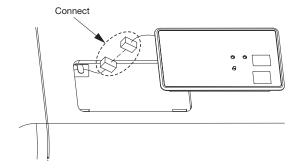
1 Remove the cover

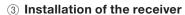
Insert a flat-blade screwdriver into the dented part (2 places), and wrench slightly so as not to damage panel surface.

(2) Connect the wiring

Connect wiring of the receiver to the wiring in the back.

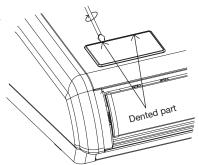
ATTENTION: Do not remove the clamp fixed the wiring.

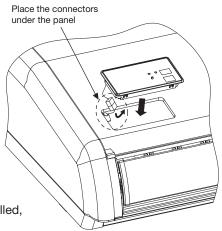




Check direction of the receiver, and fix to the panel.

CAUTION: Connect the connectors before installing the receiver. In case of connecting after the receiver had been installed, it will be necessary to remove the panel.



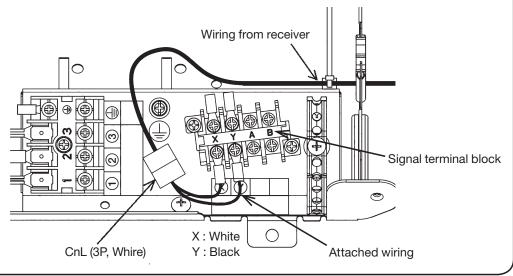


4 How to connect the wiring for control box

Connect the attached wiring to the signal terminal block primary side XY (for grill side) in the control box, and connect to the CNL connector (3P white) from the receiver .

* This installation is unnecessary for indoor unit that have wiring is already connected from the signal

terminal block to the receiver.

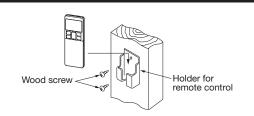


(5) Wireless remote control

Installation tips for the remote control holder

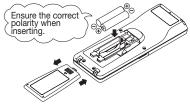
Fix the remote control holder using the screws supplied with this product.

- * Precautions for installing the holder
- Adjust the position so that it is upright.
- Ensure that the screw heads are not protruding.
- Do not attach the holder on plaster wall.



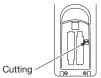
How to insert batteries

- 1. Detach the back lid.
- 2. Insert the batteries. (two AAA batteries)
- 3. Reattach the back lid.



Setting to avoid mixed communication

- 1. Detach the back lid, and remove the batteries.
- 2. Cut off the switching wire in the battery compartment using nippers.
- 3. Insert the batteries, and attach the back lid.



Changing the remote control setting

How to change the Auto Run setting

The Auto Run mode is not available on the building air conditioning and gas heat pump series (excluding the cooling/heating free multi system).

When using the remote control to operate those models, set the remote control to disable the Auto Run mode.

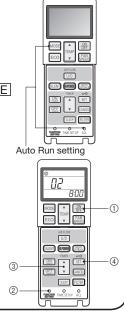
To disable the Auto Run mode, press the ACL switch while holding down the MODE button, or insert batteries while holding down the MODE button.

* Note: Once the batteries are removed, the setting is reset to the factory default. When the batteries are removed, repeat the steps described above.

Indoor function settings

- 1. How to set indoor functions
 - $\ensuremath{\textcircled{1}}$ Press the ON/OFF button to stop the unit.
 - Press the desired one of the buttons shown item 2. while holding down the FUNCTION SETTING switch.
 - ③ Use the selection buttons, ▲ and ▼, to change the setting.
 - (4) Press the SET button.

The buzzer on the remote control signal receiver beeps twice, and the LED lamp flashes four times at two-second intervals.



(5) Wireless remote control (continued)

2. Setting details The following functions can be set.

Button	Number indicator	Function setting		
	00	Fun speed setting : Standard		
FAN SPEED	01	Fun speed setting : Setting 1 *		
	02	Fun speed setting: Setting 2 *		
MODE	00	Room heating temperature adjustment : Disable		
	01	Room heating temperature adjustment : +1°C		
	02	Room heating temperature adjustment : +2°C		
	03	Room heating temperature adjustment : +3°C		
	00	Filter sign display: OFF		
	01	Filter sign display: 180 hours		
FILTER	02	Filter sign display: 600 hours		
	03	Filter sign display: 1000 hours		
	04	Filter sign display: Operation stop after 1000 hours have elapsed		
U/P	00	Anti draft setting : Disable		
(Up/Down)	01	Anti draft setting : Enable		
SILENT	00	Infrared sensor setting (Motion sensor setting) : Disable		
SILEIVI	01	Infrared sensor setting (Motion sensor setting) : Enable		
	00	Infrared sensor control (Motion sensor control) : Disable		
LI DOWED	01	Infrared sensor control (Motion sensor control) : Power control only		
HI POWER	02	Infrared sensor control (Motion sensor control) : Auto OFF only		
	03	Infrared sensor control (Motion sensor control) : Power control + Auto OFF		
	00	Cooling fan residual-period running : Disable		
ON TIMED	01	Cooling fan residual-period running : 0.5 hours		
ON TIMER	02	Cooling fan residual-period running : 2 hours		
	03	Cooling fan residual-period running : 6 hours		
	00	Heating fan residual-period running : Disable		
OFF TIMER	01	Heating fan residual-period running : 0.5 hours		
	02	Heating fan residual-period running : 2 hours		
	03	Heating fan residual-period running : 6 hours		
NICHT	00	Remote control signal receiver LED : Brightness High		
NIGHT SETBACK	01	Remote control signal receiver LED : Brightness Low		
OL I BAOK	02	Remote control signal receiver LED : OFF		

^{*} Refer to service manual.

6 Receiver

1 Control plural indoor units with one remote control

Up to 16 indoor units can be connected.

- 1. Connect the XY terminal with 2 cores wire. As for the size, refer to the following note.
- 2 For Packaged air conditioner series, set the indoor unit address with SW2 on the indoor unit PCB from [1] to [F] so as not to duplicate.

Restrictions on the thickness and length of wire (Maximun total extension 600m.)

Standard Within $0.3 \text{ mm}^2 \times 100 \text{m}$

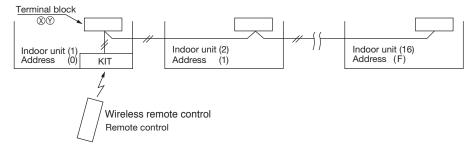
Within $0.5 \text{ mm}^2 \times 200 \text{m}$ Within $0.75 \text{mm}^2 \times 300 \text{m}$

Within $1.25 \text{mm}^2 \times 400 \text{m}$

Within $2.0 \text{ mm}^2 \times 600 \text{m}$

For the shop series

For VRF series, set the indoor unit address with SW1, SW2 and SW5-2 on the indoor unit PCB from [000] to [127] so as not to duplicate.



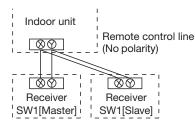
For the building air-conditioning and gas heat pump series

Set the indoor unit and outdoor unit numbers by manually specifying the addresses.

Use the rotary switches SW1 and SW2 provided on the indoor unit PCB (printed circuit board) to set the indoor unit numbers so that they are not duplicated.

Master/Slave setting when using plural remote control

Up to two receivers can be installed in one indoor unit group.



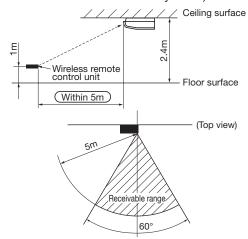
Switch	Setting Function	
SW2	ON	Master
3002	OFF	Slave

6 Receiver (continued)

Wireless remote control's operable area

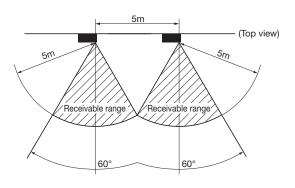
 Standard signal receiving range [Condition]

Illuminance at the receiver area: 300 lux. (When no lighting fixture is located within 1m of indoor unit in an ordinary office)



Points for attention in connecting a plural number of indoor units [Condition]

Illuminance at the receiver area: 300 lux.



Backup switch

A backup switch is provided on the receiver section of the panel surface.

When operation from the wireless remote control unit is not possible (due to flat batteries, a mislaid unit, a unit failure), you can use it as an emergency means. You should operate this switch manually.

 If pressed while the air-conditioner is in a halt, it will cause the air-conditioner to start operation in the automatic mode (in the case of cooling only, in the cooling mode).

Wind speed: Hi fan, Temperature setting: 23°C, Louver: horizontal.

TIMER CHECK RUN Backup switch

2. If pressed while the air-conditioner is in operation, it will stop the air-conditioner.

Cooling test run operation

- After safety confirmation, turn on the power.
- Transmit a cooling operation command with the wireless remote control unit, while the backup switch on the receiver is depressed.
- If the backup switch on the receiver is pressed during a test run, it will end the test run.
- If you cannot operate the unit properly during a test run, please check wiring by consulting with inspection guides.

How to read the two-digit display

A two-digit indicator (7-segment indicator) is provided on the receiver section.

- 1. An indication will be displayed for one hour after power on.
- 2. An indication appears for 3.5 seconds when a "Stop" command is sent from the wireless remote control unit while the air-conditioner is not running.
- 3. An indication appearing in (1) or (2) above will go off as soon as the unit starts operation.
- 4. When there are no error records to indicate, addresses are displayed for all of the connected units.
- 5. When there are some error records remaining, the error records are displayed.
- 6. Error records can be cleared by transmitting a "Stop" command from the wireless remote control unit, while the backup switch is depressed.

3.2 MOTION SENSOR KIT

3.2.1 FDT series (LB-T-5W-E)

PJF012D036 ∕€\

⚠ WARNING

 Connect the wiring to the PCB in the control box on the indoor unit and hold the wiring securely so as not to apply unexpected stress on the PCB.
 Loose connection or hold will cause abnormal heat generation or fire.



Make sure the power source is turned off when electric wiring work.
 Otherwise, electric shock, malfunction and improper running may occur.



A CAUTION

- Do not install the motion sensor kit at the following places in order to aboid malfunction.
 - (1) Places exposed to direct sunlight
 - (2) Places near heat devices
 - (3) High humidity places
 - (4) Hot surface or cold surface enough to generate condensation
 - (5) Places exposed to oil mist or steam directly
 - (6) Places affected by the direct air flow of the Indoor unit
- (7) Places where the motion sensor is influenced by the fluorescent lamp or sunlight
- (8) Places where the motion sensor is affected by infrared rays of any other communication devices



- (9) Places where some object may obstruct the motion sensor
- Do not leave the motion sensor without the cover.
 In case the cover needs to be detached, protect the motion sensor with a packaging or bag.
 In order to keep it away from water and dust.



Attention

- · Instruct the customer how to operate it correctly referring to the instruction manual.
- For the installation method of the air-conditioner itself, refer to the installation manual enclosed in the package.

1 Accessories

Please make sure that you have the motion sensor.

Motion sensor

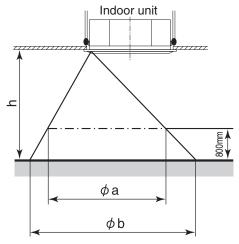


1

2 Installing the motion sensor

It is possible to install the motion sensor by replacing with a corner lid on the panel.

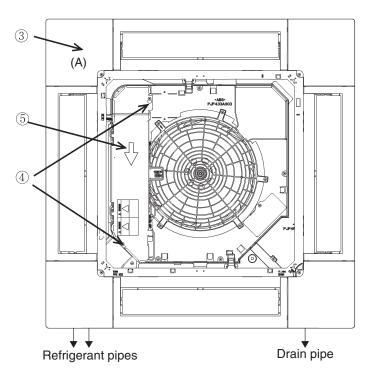
Aim of the detectable scope



Hight of the ceiling	h[m]	2.7	3.5	4.0
Detectable scope①	ϕ a[m]	about 4.5	about 6.4	about 7.6
Detectable scope2	ϕ b[m]	about 6.4	about 8.3	about 9.5

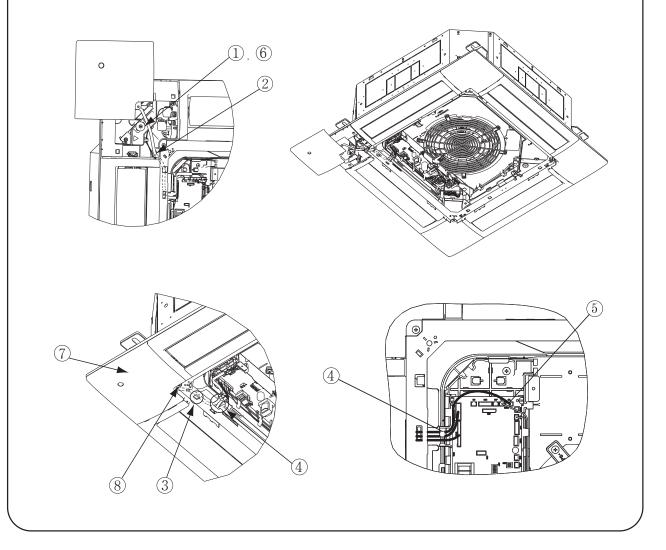
Preparation before installation

- ① Install the panel onto the indoor unit according to the installation manual for the panel.
- 2 Remove the inlet grille.
- 3 Remove the corner lid (A) located on the panel.
- 4 Loosen 2 screws for the control lid. (It is unnecessury to remove the screws.)
- 5 Slide the control lid, and open and remove it.



Installation of the motion sensor

- ① Loosen the bolts which fix the panel, and make a gap between the panel and the indoor unit.
- 2 Pass the wiring of the motion sensor through the opening of the panel.
- 3 Hang the wiring on the hook which is on the panel's inside.
- 4 Pass the wiring through the opening of the control box.
- 5 Connect the connecter to CNL(3P,Black) on PWB in the contorl box.
- 6 Tighten the bolts which fix the panel.
- 7 Install the motion sensor on the panel.
- 8 Fix the motion sensor by the screw.
- 9 Reinstall the control lid, and tighten 2 screws.



3 Setting the motion sensor

The motion sensor will not function if it is only installed. Set the function of the motion sensor by the wired or wireless remote control. Refer to the manual instruction of each remote control for the setting procedure.

Note: It is not possible to set by the following remote control models or older.

Wired:RC-EX1A, RC-E5, RCH-E3

Wireless: RCN-E1R

PJF012D504

3.2.2 FDTC series (LB-TC-5W-E)

⚠ WARNING

 Connect the wiring to the PCB in the control box on the indoor unit and fix the wiring securely so as not to apply unexpected stress on the PCB.
 Loose connection or fixing will cause abnormal heat generation or fire.



Make sure the power source is turned off during electrical wiring work.
 Otherwise, electric shock, malfunction and abnomal operation may occur.



A CAUTION

- Do not install the motion sensor kit at the following places in order to avoid malfunction.
 - (1) Places exposed to direct sunlight
 - (2) Places near heat-generating devices
 - (3) High humidity places
 - (4) Hot surface or cold surface enough to generate condensation
 - (5) Places directly exposed to oil mist or steam
 - (6) Places affected by the direct air flow of the indoor unit
 - (7) Places where the motion sensor may be influenced by fluorescent lamp or sunlight
- (8) Places where the motion sensor may be affected by infrared rays of any other communication devices



- (9) Places where some object may obstruct the motion sensor
- (10) Places where there may be impact on the motion sensor
- (11) Places with strong radio wave or static electricity
- (12) Dusty place where the motion sensor lens may become tainted or be damaged
- Do not leave the motion sensor without the cover.
 In case the cover needs to be detached, protect the motion sensor with a packaging or bag in order to keep it away from water and dust.



Attention

- Instruct the customer how to operate the motion sensor kit correctly by referring to the instruction manual.
- For the installation method of the air-conditioner itself, refer to the installation manual enclosed in the package.

1 Accessories

Please make sure that all components are in the package.

Motion sensor

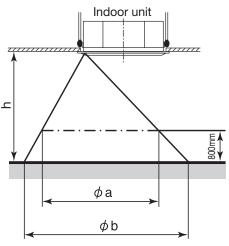


1

2 Installing the motion sensor

It is possible to install the motion sensor by replacing the corner lid on the panel.

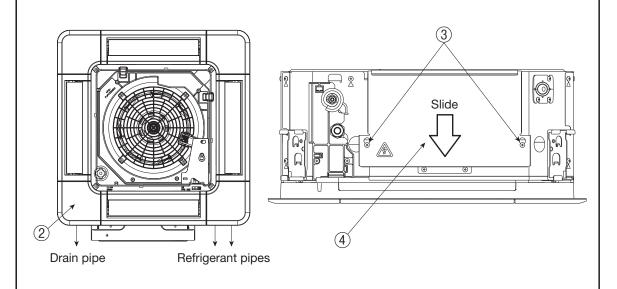
The detectable area



Height of the ceiling	h[m]	2.7	3.5	4.0
Detectable area①	ϕ a[m]	about 4.5	about 6.4	about 7.6
Detectable area②	ϕ b[m]	about 6.4	about 8.3	about 9.5

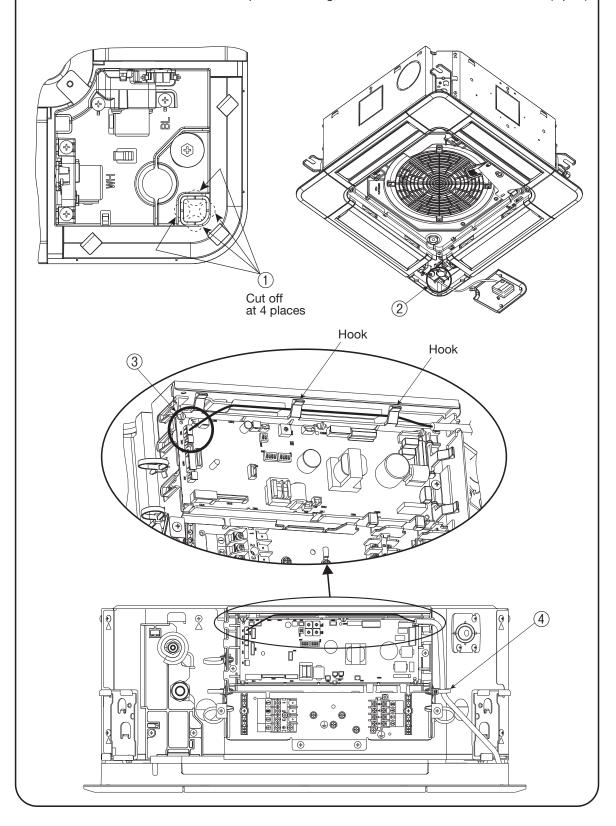
Preparation before installation

- ① Remove the inlet grille according to the installation manual of the panel.
- ② Remove the corner lid at the drain pipe side.
- 3 Loosen screws (2 pcs) on the control box of the unit. (It is not necessary to remove the screws.)
- 4) Slide the control lid in the arrow direction, and remove it.



Installation of the motion sensor

- ① Cut the half blanking (4 sections) of the panel as shown in the following figure.
- ② Pass the motion sensor wiring through the opening of the panel.
- 3 Connect the wiring connector to CNL (3P, black) on the PCB in the control box.
- 4 Fix the wiring with a band as shown below.
- ⑤ Install the motion sensor on the panel according to the installation manual of the panel.
- (i) Install the control lid with care not to pinch the wiring, and reinstall the control lid with screws (2 pcs.).



3 Setting the motion sensor

The motion sensor will not function if it is only installed. Set the function of the motion sensor by the wired or wireless remote control. Refer to the manual instruction of each remote control for the setting procedure.

Note: It is not possible to set by the following remote control models or older ones.

Wired:RC-EX1A, RC-E5, RCH-E3

Wireless: RCN-E1R

PJZ012D122 🛦

3.2.3 FDU, FDUM series (LB-KIT)

↑ WARNING

Connect the wiring to the PCB in the control box on the indoor unit and hold the wiring securely so as not to apply unexpected stress on the PCB.
Loose connection or hold will cause abnormal heat generation or fire.



Make sure the power source is turned off when electric wiring work.
 Otherwise, electric shock, malfunction and improper running may occur.



A CAUTION

- Do not install the motion sensor kit at the following places in order to avoid malfunction.
- (1) Places exposed to direct sunlight
- (2) Places near heat devices
- (3) High humidity places
- (4) Hot surface or cold surface enough to generate condensation
- (5) Places exposed to oil mist or steam directly
- (6) Places affected by the direct air flow of the Indoor unit
- (7) Places where the motion sensor is influenced by the fluorescent lamp or sunlight
- (8) Places where the motion sensor is affected by infrared rays of any other communication devices
- (9) Places where some object may obstruct the motion sensor



- (10) Place that the motion sensor have a shock
- (11) Place with the strong radio wave or Static electricity
- (12) Place that motion sensor lens become tainted or have damaged. Dusty place
- (13) Place where it runs in parallel with strong voltage lines such as power source wiring
- Do not leave the motion sensor without the cover.
 In case the cover needs to be detached, protect the motion sensor with a packaging or bag.
 In order to keep it away from water and dust.



Attention

- · This manual describes how to install the motion sensor kit.
- Instruct the customer how to operate it correctly referring to the instruction manual.
- For the installation method of the air-conditioner itself, refer to the installation manual enclosed in the package.

1 Accessories

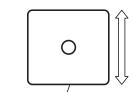
Please make sure that all components are in the package.

Motion sensor Wiring <1>		Wiring <2>	2 screws	Manual
0	In case of CnL connector on the indoor unit PCB (FDT/FDK/FDTC)	In case of CnL connector is not on the indoor unit PCB	OD OD	

* Please prepare a relay wiring for connecting the motion sensor and indoor unit on site. (0.2 mm² or thicker, triplex (red, white and black) cable for communication, with the maximum length of 8 m.)

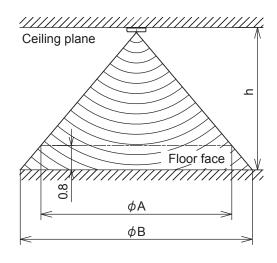
2 Installing the motion sensor

- The recommended height is lower than 4000 mm for motion sensor. When the installation height is higher, motion detection accuracy might be reduced.
- · Sensor will detect the object with a different temperature from the surrounding.
- Sensor may not detect small children or infants with little motion.
- · Although motion sensor can be installed on a wall, it is recommended to install it on the ceiling plane.
- If the sensor is installed on the wall, the sensing distance in the front direction is about 5 m, covering the angle of about 100 degrees.



Side of screws for fixing the case

The detectable area



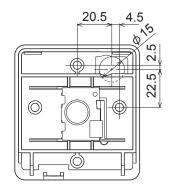
Height of the ceiling	h (m)	2.7	3.5	4.0
Detectable area	ϕ A (m)	4.5	6.4	7.6
Detectable area	ϕ B (m)	6.4	8.3	9.5

Installing the motion sensor

There are the following 3 methods to install the motion sensor on the ceiling plane or wall surface (hereinafter called "ceiling plane"). Select the method according to the installation position.

<How to install>

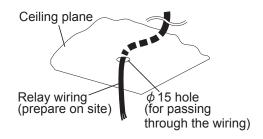
- (A) Direct installation by screws to the ceiling plane with the wiring in the ceiling space.
- (B) Direct installation by screws to the ceiling plane with the wiring in the room.
- (C) Installation with switch box (prepare at the site)

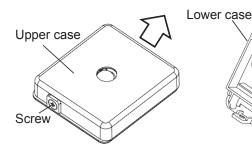


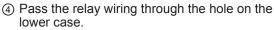
Positional relation for pulling out relay wiring hole and installing holes.

Option (A)

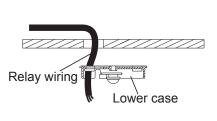
- ► Select this method if the ceiling plane has sufficient strength to install the motion sensor directly with screws.
- ① Prepare a relay wiring on site and lay out the wiring in advance.
- ② Remove the screw at the side of the motion sensor and slide the upper case in the direction of the arrow.
- (3) Pull the wiring of the motion sensor as below.

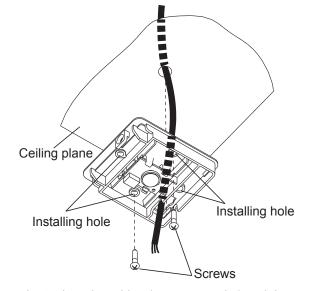






⑤ When fixing the lower case to the ceiling plane, tighten it in 2 locations of the installing holes (4 locations) with the attached screws.





(6) Using a crimping terminal, etc., connect the same color to the relay wiring (prepare on site) and the wiring of motion sensor.



- Place the connecting part inside of the ceiling space.
- Seal the wiring hole on the lower case with putty.
- (9) Taking care not to pinch the wirings, slip the upper case into the lower case, and tighten the screws.

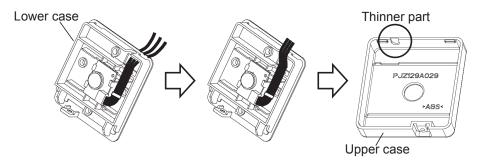


Caution:

In order to prevent tracking, be sure to perform construction so as not to clog up the connecting part with dust, etc.

Option (B)

- ► Select this method if the ceiling plane has sufficient strength to install the motion sensor directly with screws.
- ① Remove the screw at the side of the motion sensor and slide the upper case in the direction of the arrow. (The same as ② of Option (A))
- (2) Pull the wiring of the motion sensor toward the side. Cut off the thinner part of the upper case.



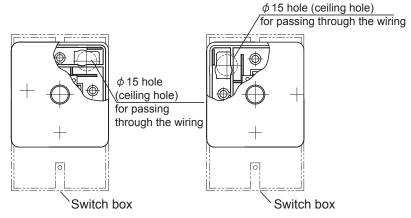
- ③ When fixing the lower case to the ceiling plane, tighten it in 2 locations of the installing holes (4 locations) with the attached screws. (The same as ⑤ of Option (A))
- 4 Using a crimping terminal, etc., connect the same color to the relay wiring (prepare on site) and the wiring of motion sensor.
 - (The same as ⑥ of Option (A))
- (5) Taking care not to pinch the wirings, slip the upper case into the lower case, and tighten the screws. (The same as (9) of Option (A))
- 6 Seal the cut part at Step 2 with putty.



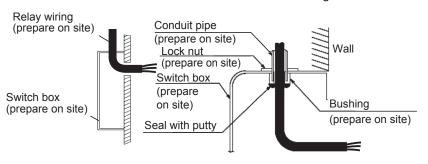
Option (C)

 Set up the switch box and relay wiring (prepare on site) in advance.

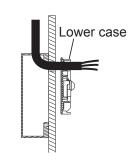
Seal the relay wiring inlet with putty.

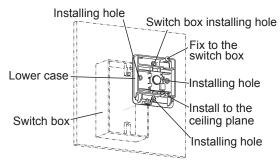


Positional relation for the switch box and installing holes



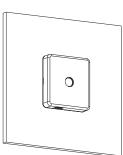
- ② Remove the screw at the side of the motion sensor and slide the upper case in the direction of the arrow. (The same as ② of Option (A))
- ③ Pull the wiring of the motion sensor. (The same as ③ of Option (A))
- Pass the relay wiring through the hole on the lower case from switch box.
- (5) Fix the lower case to switch box using the installing hole (1 place).





- © Connect the same color to the relay wiring (prepare on site) and the wiring of motion sensor.(The same as ⑥ of Option (A))
- Place the connecting part between switch box and the hole of the lower case through passed the wiring at step (4).
- Taking care not to pinch the wirings, slip the upper case into the lower case, and tighten the screws. (The same as (9) of Option (A))





Wiring connection in the control box of indoor unit

CAUTION: Attached wirings to the motion sensor vary depending on the model of the indoor unit. Make sure your model before installing.

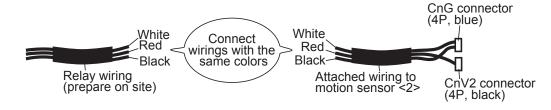
<In case of the CnL connector is on the indoor unit PCB (FDT/FDK/FDTC)>

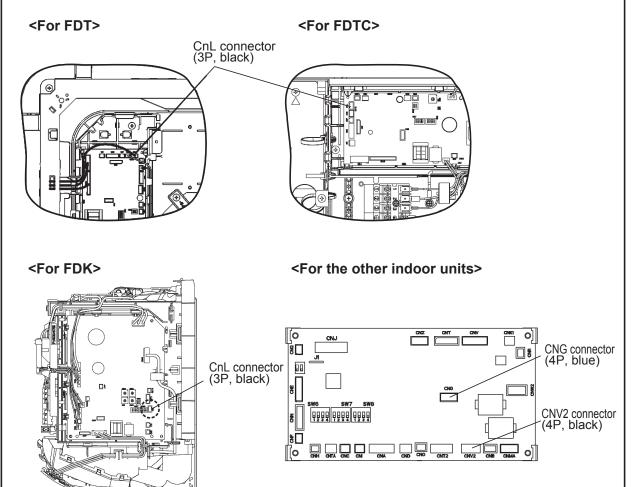
- ① Connect the same color to the relay wiring (prepare on site) and the attached wiring <1>.
- 2 Remove the control box cover from the indoor unit.
- 3 Connect CnL connector (3P, black) to the PCB.



<Incase of the CnL connector is not on the indoor unit PCB>

- ① Connect the same color to the relay wiring (prepare on site) and the attached wiring <2>.
- ② Remove the control box cover from the indoor unit.
- ③ Connect CnG connector (4P, blue) to the PCB.
- 4 Connect CnV2 connector (4P, black) to the PCB.





3 Setting the motion sensor

The motion sensor will not function if it is only installed.

Set the function of the motion sensor by the wired or wireless remote control. Refer to the manual instruction of each remote control for the setting procedure.

Note: It is not possible to set by the following remote control models or older.

Wired:RC-EX1A, RC-E5, RCH-E3

Wireless: RCN-E1R

PFA012D633 🗥

3.2.4 FDE series (LB-E)

⚠ WARNING

Connect the wiring to the PCB in the control box on the indoor unit and hold the wiring securely so as not to apply unexpected stress on the PCB. Loose connection or hold will cause abnormal heat generation or fire.



Make sure the power source is turned off when electric wiring work. Otherwise, electric shock, malfunction and improper running may occur.



⚠ CAUTION

- Do not install the motion sensor kit at the following places in order to avoid malfunction.
 - (1) Places exposed to direct sunlight
 - (2) Places near heat devices
 - (3) High humidity places
 - (4) Hot surface or cold surface enough to generate condensation
 - (5) Places exposed to oil mist or steam directly (10) Place that the motion sensor have a shock
 - (6) Places affected by the direct air flow of the Indoor unit
 - Places where the motion sensor is influenced by the fluorescent lamp or sunlight
- (8) Places where the motion sensor is affected by infrared rays of any other communication devices
- (9) Places where some object may obstruct the motion sensor



- (11) Place with the strong radio wave or Static electricity
- (12) Place that motion sensor lens become tainted or have damaged. Dusty place
- Do not leave the motion sensor without the cover. In case the cover needs to be detached, protect the motion sensor with a packaging or bag. In order to keep it away from water and dust.



Attention

- · This manual describes how to install the motion sensor kit.
- Instruct the customer how to operate it correctly referring to the instruction manual.
- For the installation method of the air-conditioner itself, refer to the installation manual enclosed in the package.

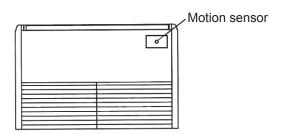
1 Accessories

Please make sure that all components are in the package.

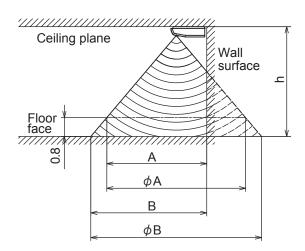
Motion sensor (*) Manual Attached wiring to the motion sensor kit * Wiring from the motion sensor and the attached wiring to the motion sensor kit have been connected when shipped from the factory. Remove the connector at the position of \bigcirc mark and connect it to the attached wiring to the indoor unit before use.

2 Installing the motion sensor

- It is possible to install the motion sensor by replacing the indoor unit.
- The recommended height is lower than 4000 mm for motion sensor. When the installation height is higher, motion detection accuracy might be reduced.
- Sensor will detect the object with a different temperature from the surrounding.
- Sensor may not detect small children or infants with little motion.
- Use the separate motion sensor so that person's activity can be detected when the detectable area differs from the person's activity area.
- Use the separate motion sensor when using both wireless remote control and motion sensor together.



The detectable area



Height of the ceiling	h (m)	2.7	3.5	4.0
Detectable area	A (m)	2.9	3.9	4.5
Detectable area	φ A (m)	4.5	6.4	7.6
Detectable area	B (m)	3.9	4.8	5.4
Detectable area	φ B (m)	6.4	8.3	9.5

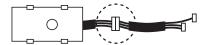
Installing the motion sensor (before installing the unit)

Motion sensor can be installed by replacing with a cover of the panel.

CAUTION: Install the motion sensor before installing the unit.

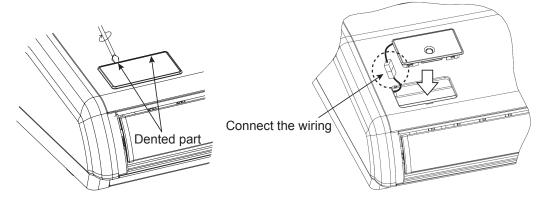
When installing the motion sensor after unit has been fixed, injury due to falling may result because of working at high place.

① Remove the connector that connects the motion sensor and the wiring.



- ② Insert a tool into the dented part (2 places) of the panel cover, and wrench slightly not to damage the paintwork of the panel to remove the cover.
- ③ Connect the wiring from the panel's hole (attached to the indoor unit, color of the wiring: white, red and black, connector: 3P, white) to the wiring from the motion sensor. Make sure to install the motion sensor in the correct direction.

CAUTION: Do not remove the clamp fixed the wiring.



(4) Install the motion sensor

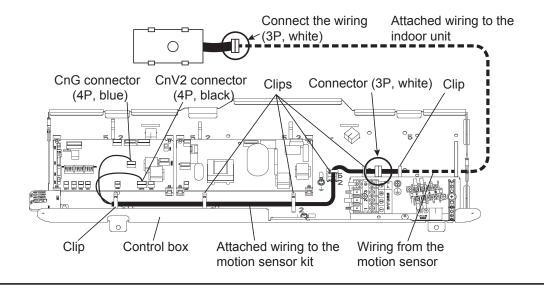
Place the connector under the panel and install it to the panel with careful attention to the direction of the motion sensor.

CAUTION: Connect the connectors before installing the motion sensor.

In case of connecting after the motion sensor has been installed, it will be necessary to remove the panel.

Wiring connection in the control box

- ① Connect the wiring from the motion sensor (attached to the indoor unit, color of the wiring: white, red and black, connector: 3P, white) to the attached wiring to the motion sensor kit.
- ② Fix the wiring with clips (6 places).
- 3 Connect CnG connector (4P, blue) to the PCB.
- 4 Connect CnV2 connector (4P, black) to the PCB.



3 Setting the motion sensor

The motion sensor will not function if it is only installed.

Set the function of the motion sensor by the wired or wireless remote control. Refer to the manual instruction of each remote control for the setting procedure.

Note: It is not possible to set by the following remote control models or older.

Wired:RC-EX1A, RC-E5, RCH-E3

Wireless: RCN-E1R

SAFETY PRECAUTIONS

⚠ WARNING

If a child, person with disease or other persons needed for assist uses this product, people around the person should take sufficient care.



A halt of the air-conditioner due to abnormal situation or motion sensor's control may cause a feeling of sickness or accident.

ATTENTION

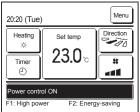
- The sensor may not detect a person near the border of detection range.
- Installation near an object with a different temperature from the surrounding may cause a false detection of human.
- Due to correction of temperature setting, some people may feel chilly.

This product uses infrared sensor to detect person's activity level to support control of air-conditioner. Please set the control you like from the remote control.

Indoor unit control		Description of control	Display of eco touch remote control
Power control		Lower the indoor temperature setting for comfort.	Power control ON
Tower control	Activity level is small	Raise the indoor temperature setting for energy-saving.	Power control ON
② Auto-off	No one is detected for 1 hour	Stop operation and stand by	In auto-off mode
2 Auto-on	No one is detected for 12 hours	Stop operation	-
1 + 2	Any combination of the above	Any of the above	Any of the above
All disabled (default setting)	-	Standard control	-

If the sensor is disconnected or defective, the control will be set as if it no detects (or less) activity level.

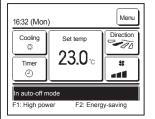
Refer to the next section for setting method.



When power control is enabled

The amount of human motion is detected by a motion sensor to adjust the Set temp.

During power control, "Power control ON" will be displayed on the message display.



When auto-off is enabled

The unit will enter the "Operation wait" state when an hour has elapsed since the last time a human presence was detected and will be in "Complete stop" state after another 12 hours.

"Operation wait"...The unit stops but will resume operation when human presence is detected. When the unit is in "Complete stop", "In auto-off mode" will be displayed on the message display.

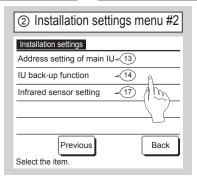
"Complete stop"...When auto-off is enabled, the unit stops. The unit will not resume operation even when human presence is detected.

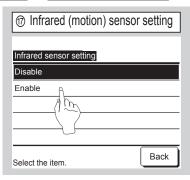
The message "In auto-off mode" will disappear from the message display, and the operation lamp will turn off.

Control setting (from eco touch remote control)

Refer to the installation manual for eco touch remote control to activate the infrared sensor (motion sensor).
 TOP screen Menu ⇒ Service setting ⇒ Installation settings ⇒ Service password

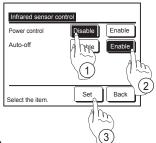






- Refer to the installation manual for eco touch remote control to set control mode.
- Infrared sensor (motion sensor) control (for IUs with motion sensors)

 Presence of humans and the amount of motion are detected by a motion sensor to perform various controls.
- When the R/C is set as the sub R/C, the infrared sensor (motion sensor) control cannot be set.



Tap the Menu button on the TOP screen and select Energy-saving setting ⇒ Infrared sensor control or Motion sensor control.

The Infrared sensor control screen and contents of the current settings are displayed.

- 1) Enable/disable power control.
- ② Enable/disable auto-off.
- 3 After you set each item, tap the Set button. The display returns to the Energy-saving setting menu screen.

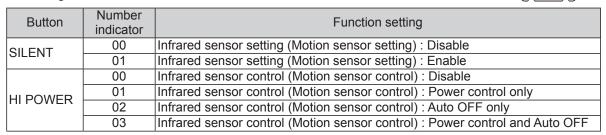
Control setting (from wireless remote control)

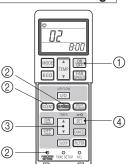
Refer to the installation manual for wireless remote control to enable motion sensor in Indoor function settings

Indoor function settings

- 1. How to set indoor functions
 - ① Press the ON/OFF button to stop the unit.
 - ② Press the desired one of the buttons shown item **2**. while holding down the FUNCTION SETTING switch.
 - ③ Use the selection buttons, ▲ and ▼, to change the setting.
 - 4) Press the SET button.
 - The buzzer on the remote control signal receiver beeps twice, and the LED lamp flashes four times at two-second intervals.





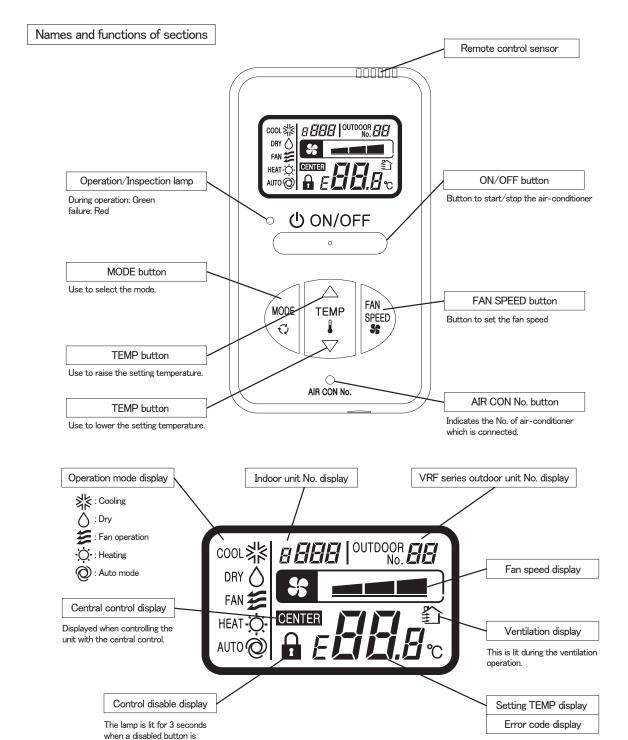


3.3 SIMPLE WIRED REMOTE CONTROL (RCH-E3)

Note:

Following functions of FDU indoor unit series are not able to be set with this simple wired remote control (RCH-E3).

1. 4-fan speed setting (P-Hi/Hi/Me/Lo) → 3-fan speed setting (Hi/Me/Lo)



Installation of remote control

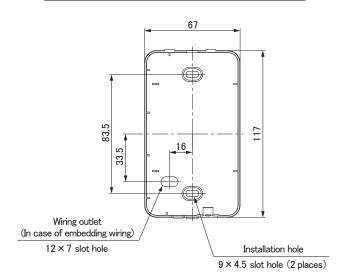
pressed.

Do not install the remote control at the following places in order to avoid malfunction.

- (1) Places exposed to direct sunlight
- (2) Places near heat devices
- (3) High humidity places
- (4) Hot surface or cold surface enough to generate condensation
- (5) Places exposed to oil mist or steam directly
- (6) Uneven surface

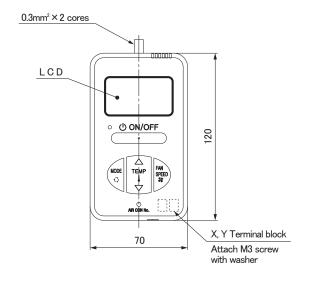
PJZ000Z272

Remote control installation dimensions

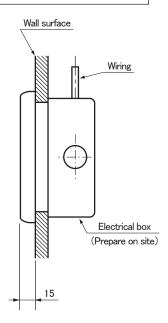


Note: Installation screw for remote control M4 screw (2 pieces)

In case of exposing wiring

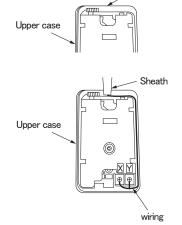


In case of embedding wiring



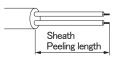
The remote control wiring can be extracted from the upper center. After the thin part in the upper side of the remote control upper case is scraped with a nipper or knife, remove burr with a file.

Thin part



The peeling length of each wiring is as follows:

X wiring : 160mm Y wiring : 150mm



Unit:mm

Wiring specifications

- (1) Wiring of remote control should use $0.3 \text{mm}^2 \times 2$ cores wires or cables. (on–site configuration)
- (2) Maximum prolongation of remote control wiring is 600m.

If the prolongation is over 100m, change to the size below.

But, the wiring in the remote control case should be 0.3mm^2 (recommended) to 0.5mm^2 .

Change the wire size outside of the case according to wire connecting. Waterproof treatment is necessary at the wire connecting section. Be careful about contact failure.

Length	Wiring thickness
100 to 200m	0.5mm² × 2 cores
Under 300m	0.75mm² × 2 cores
Under 400m	1.25mm² × 2 cores
Under 600m	2.0mm ² × 2 cores

Adapted to **RoHS** directive

Simple Remote Control Installation Manual

PJZ012D069 A

Read together with indoor unit's installation manual.

<u>∧</u>WARNING

• Fasten the wiring to the terminal securely and hold the cable securely so as not to apply unexpected stress on the terminal.

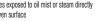
Loose connection or hold will cause abnormal heat generation or fire.

Make sure the power source is turned off when electric wiring work. Otherwise, electric shock, malfunction and improper running may occur.

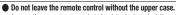
⚠ CAUTION

Do not install the remote control at the following places in order to avoid malfunction.

- (1) Places exposed to direct sunlight
- (4) Hot surface or cold surface enough to generate condensation
- (2) Places near heat devices (3) High humidity places
- (5) Places exposed to oil mist or steam directly







In case the upper cace needs to be detached, protect the remote control with a packaging box or bag in order to keep it away from water and dust.



Accessories	Remote control, wood screw (ϕ 3.5 $ imes$ 16) 2 pieces
Prepare on site	Remote control cord (2 cores) (Refer to [2. Installation and wiring of remote control]) [In case of embedding cord] Electrical box, M4 screw (2 pieces) [In case of exposing cord] Cord clamp (if needed)

1. Installation procedure

In case of embedding cord

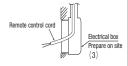
(1) Make certain to remove the screw on the bottom surface of the remote control



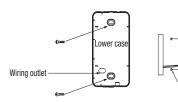
(2) Remove the upper case of the remote control. Insert a flat-blade screwdriver to a concave portion of the bottom surface of the remote control and slightly twist it, and the case is



(3) Pre-bury the electrical box and remote control cord.



(4) Prepare two M4 screws (recommended length: 12 - 16mm), and install the lower case to the electrical box. Do not use a screw whose screw head is larger than the height of the wall around the screw hole.



(5) Connect the remote control cord to the terminal block. Connect the terminals (X and Y) of the remote control and the terminals (X and Y) of the indoor unit. (No polarity of X and Y)

(6) Mount the upper case for restoring to its former state so as not to crimp the remote control cord, and secure with the removed screw.

In case of exposing cord

Make certain to remove a screw on the bottom surface of the



(2) Remove the upper case of the remote control. Insert a flat-blade screwdriver to a concave portion of the bottom surface of the remote control and slightly twist it and the case is removed.

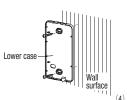


(3) The remote control cord can be extracted from the

After the thin part in the upper side of the remote control upper case is scraped with a nipper or knife, remove burr with a file.



(4) The lower case of the remote control is mounted to a flat wall with two accessory wood screws.



(5) Connect the remote control cord to the terminal block Connect the terminals (X and Y) of the remote control and the terminals (X and Y) of the indoor unit. (No polarity of X and

The wiring route is as shown in the right.



The wiring in the remote control case should be 0.3 mm² (recommended) to 0.5 mm² at maximum.

Further, peel off the sheath.

The peeling length of each wiring is as follows:

X wiring: 160mm Y wiring: 150mm



- (6) Mount the upper case for restoring to its former state so as not to crimp the remote control cord, and secure with the removed screw.
- In the case of exposing installation, secure the remote control cord to the wall surface with a cord clamp so as not to loosen the remote control cord

2. Installation and wiring of remote control

- (1) Wiring of remote control should use $0.3 \text{mm}^2 \times 2$ cores wires or cables, (on-site configuration)
- (2) Maximum prolongation of remote control wiring is 600 m.

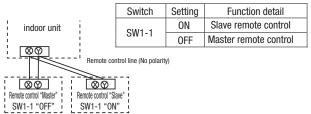
If the prolongation is over 100m, change to the size below.

But, the wiring in the remote control case should be 0.3mm² (recommended) to 0.5mm². Change the wire size outside of the case according to wire connecting. Waterproof treatment is necessary at the wire connecting section. Be careful about contact failure.

100 - 200m······0.5mm² × 2 cores Under 300m············0.75mm² × 2 cores Under 400m······1.25mm² × 2 cores Under 600m······2.0mm² × 2 cores

3. Master/ slave setting when more than one remote control are used

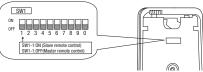
Up to two remote controls can be connected to one unit (or one group) of indoor unit.



(2) Set the switch SW1-1 of the slave remote control is "Slave" (ON). The factory default is set as "Master" (OFF). (Note) • The remote control temperature sensor enabled setting can be set only to the master remote control.

• Install the master remote control at the position to detect room temperature.

• The air-conditioner operation follows the last operation of the remote control in case of the master / slave setting.



4. The indication when power source is supplied

At the time of turning the power source on, after the light is on for the first 2 seconds, the display becomes as shown below.

The number displayed on the upper side of LCD in the remote control is the software number,

and this is not an error code



Software number

(The number in the left is one example. Another number may be shown.)

- (2) Then, "88.0 °C" blinks on the remote control until the communication between the remote control and the indoor unit is established.
- In the case of connecting one remote control with one unit (or one group) of indoor unit, make certain to set the master remote control (factory default). If the slave remote control is set, a communication cannot be established.
- If a state where the communication between the remote control and the indoor unit cannot be established continues about for 30 minutes, "E" is displayed. Confirm the wiring of the indoor unit and the outdoor unit and master/slave setting of the remote control.



5. Confirmation method for return air temperature

Return air temperature can be confirmed by the remote control operation.

Press AIR CON No. button for over 5 seconds.

"88" blinks on the temperature setting indicator.

("88" blinks for approximately 2 seconds while data is read.)



Then, the return air temperature is displayed. (Example) return air temperature: "27 °C" (blinking)

(Note) For the return air temperature, in the normal case, the return air temperature of the indoor unit is displayed; however, in the case that the remote control temperature sensor is effective, detected temperature by the remote control temperature sensor is displayed.

Press () ON/OFF button. Fnd.

[In the case that the remote temperature sensor is ineffective and plural indoor units are connected to one remote control]

(1) Press AIR CON No. button for over 5 seconds. indoor unit No. indicator: "U 000" (blinking) (Among the connected indoor units, the lowest number is displayed.)



(2) Press TEMP△ or TEMP▽ button. Select the indoor unit No.

Press MODE button. Dectder the indoor unit No.

(Example) indoor unit No. indicator: "U 000"

"88" blinks on the temperature setting indicator. (blinking for approximately 2 to 10 seconds while data is read) Then, the return air temperature is displayed. When AIR CON No. is pressed, return to the indoor unit selection display (example, "U 000").

Press **()** ON/OFF button. End.

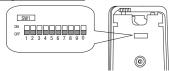
6. Function setting

Each function of the remote control and the indoor unit is automatically set to the initial setting, which is the standard use, on the occasion of connecting the remote control with the indoor unit. In the case of the standard use, the setting change is unnecessary. However, if you whould like to change the initial setting "O", change the setting for only the item of the function number. Record the setting contents and stored them.

(1) Function setting item by switch on PCB

	Switch No.	Setting	Setting detail	Initial setting
	SW1-1	ON	Slave remote control	
	OW1-1	0FF	Master remote control	0
			Remote control temperature sensor enabled	
			Remote control temperature sensor disabled	0
	SW1-3	ON	"MODE" button prohibited	
	5W1-3 OF		"MODE" button enabled	0
	SW1-4	ON	"ON/OFF" button prohibited	
Ш	3W1-4	0FF	"ON/OFF" button enabled	0

Switch No.	Setting	Setting detail	Initial setting
SW1-5	ON	"TEMP" button prohibited	
3W1-0	0FF	"TEMP" button enabled	0
SW1-6	ON	"FAN SPEED" button prohibited	* Note 1
SW1-6 OFF		"FAN SPEED" button enabled	* Note 1
SW1-7	ON	Auto restart function enabled	
SW1-7	0FF	Auto restart function disabled	0
SW1-8, 9, 0	ON	Not used	
5W1-8, 9, 0	0FF	Not used	



- As for the slave remote control, function setting is impossible other than SW1-1.
- . In the indoor unit with only one fan speed, "FAN SPEED" button cannot

(2) Function setting item by button operation

Classification	Function No.	Function	Setting No.	Setting	Initial setting	Remarks
			01	Fan speed: three steps	※ Note 1	The fan speed is three steps, * • • • • • • • • • • • • • • • • • •
01	01	Indoor unit fan speed	02	Fan speed: two steps (Hi-Lo)	※ Note 1	The fan speed is two steps, 30 = 40 = .
	illuoor ariit lair speca	03	Fan speed: two steps (Hi-Me)		The fan speed is two steps, 💸 🔳 🛍 - 🍇 🔳 .	
			04	Fan: one step	※ Note 1	The fan speed is fixed to one step.
			01	Remote control temperature sensor: no offset	0	
			02	Remote control temperature sensor: +3.0 °C		At the time of cooling, in the case of remote control temperature sensor enabled, offset temperature at +3.0°C.
		Remote control	03	Remote control temperature sensor: +2.0 °C		At the time of cooling, in the case of remote control temperature sensor enabled, offset temperature at +2.0°C.
	03	thermistor at the time	04	Remote control temperature sensor: +1.0 °C		At the time of cooling, in the case of remote control temperature sensor enabled, offset temperature at +1.0°C.
		of cooling	05	Remote control temperature sensor: -1.0 °C		At the time of cooling, in the case of remote control temperature sensor enabled, offset temperature at -1.0°C.
			06	Remote control temperature sensor: -2.0 °C		At the time of cooling, in the case of remote control temperature sensor enabled, offset temperature at -2.0°C.
Remote			07	Remote control temperature sensor: -3.0 °C		At the time of cooling, in the case of remote control temperature sensor enabled, offsett temperature at -3.0°C.
control			01	Remote control temperature sensor: no offset	0	
function			02	Remote control temperature sensor: +3.0 °C		At the time of heating, in the case of remote control temperature sensor enabled, offset temperature at +3.0°C.
		Remote control	03	Remote control temperature sensor: +2.0 °C		At the time of heating, in the case of remote control temperature sensor enabled, offset temperature at +2.0°C.
	04	thermistor at the time	04	Remote control temperature sensor: +1.0 °C		At the time of heating, in the case of remote control temperature sensor enabled, offset temperature at +1.0°C.
		of heating	05	Remote control temperature sensor: -1.0 °C		At the time of heating, in the case of remote control temperature sensor enabled, offset temperature at -1.0°C.
			06	Remote control temperature sensor: -2.0 °C		At the time of heating, in the case of remote control temperature sensor enabled, offset temperature at -2.0°C.
			07	Remote control temperature sensor: -3.0 °C		At the time of heating, in the case of remote control temperature sensor enabled, offset temperature at -3.0°C.
			01	No ventilator connection	0	
	05	Ventilation setting	02	Ventilator links air-conditioner		In case of Single split series, by connecting ventilation device to CNT of the indoor printed circuit board (in case of VRF series, connecting it to CND of the indoor printed circuit board), the operation of ventilation device is linked with the operation of indoor unit.
	06	"Auto" operation	01	"Auto" operation enabled	※ Note 1	
	00	setting	02	"Auto" operation disabled		"Auto" operation disabled
	07	Operation permission/	01	Disabled	0	
	07	07 prohibition 08 External input	02	Enabled		Operation permission/prohibition control is enabled.
	00 5		01	Level input	0	
	08	External IIIput	02	Pulse input		
			01	Standard	* Note 2	
	09	Fan speed setting	02	High speed 1	* Note 2	
			03	High speed 2	※ Note 2	
			01	No remaining operation	0	After cooling stopped, no fan remaining operation
	10	Fan remaining operation at the time	02	0.5 hours		After cooling stopped, fan remaining operation for 0.5 hours
	10	of cooling	03	1 hour		After cooling stopped, fan remaining operation for 1 hour
			04	6 hours		After cooling stopped, fan remaining operation for 6 hours
		Face association	01	No remaining operation	0	After heating stopped or after heating thermostat OFF, no fan remaining operation
	11	Fan remaining operation at the time	02	0.5 hours		After heating stopped or after heating thermostat OFF, fan remaining operation for 0.5 hours
	''	of heating	03	2 hours		After heating stopped or after heating thermostat OFF, fan remaining operation for 2 hours
Indoor unit		0	04	6 hours		After heating stopped or after heating thermostat OFF, fan remaining operation for 6 hours
function		0-44: 4	01	No offset	0	
	12	Setting temperature offset at the time of	02	Setting temperature offset + 3.0 °C		The setting temperature at the time of heating is offset by +3.0 °C.
	12	heating	03	Setting temperature offset + 2.0 °C		The setting temperature at the time of heating is offset by +2.0 °C.
			04	Setting temperature offset + 1.0 °C		The setting temperature at the time of heating is offset by +1.0 °C.
			01	Low fan speed	※ Note 1	At the time of heating thermostat OFF, operate with low fan speed.
			02	Setting fan speed		At the time of heating thermostat OFF, operate with the setting fan speed.
	13	Heating fan controller	03	Intermittent operation	፠ Note 1	At the time of heatingr thermostat OFF, intermittently operate.
			04	Fan off		At the time of heating thermostat OFF, a fan will be stopped. When the remote control thermistor is enabled, automatically set to "Fan off". Do not set at the time of the indoor unit temperature sensi
			01	No offset	0	
			02	Return air temperature offset +2.0 °C		Offset the return air temperature of the indoor unit by +2.0 °C.
		Datum ainternal :	03	Return air temperature offset +1.5 °C		Offset the return air temperature of the indoor unit by +1.5 °C.
	14	Return air temperature offset	04	Return air temperature offset +1.0 °C		Offset the return air temperature of the indoor unit by +1.0 °C.
		Ullact	05	Return air temperature offset -1.0 °C		Offset the return air temperature of the indoor unit by -1.0 °C.
			06	Return air temperature offset -1.5 °C		Offset the return air temperature of the indoor unit by -1.5 °C.
			07	Return air temperature offset -2.0 °C		Offset the return air temperature of the indoor unit by -2.0 °C.

Note 1: The symbol " *X " in the initial setting varies depending upon the indoor unit and the outdoor unit to be connected, and this is

automatically dete	rmined as follows:		
Swith No. Function No.	Function	Setting	Product model
	"FAN SPFFD"	"FAN SPEED" button prohibited	Product model whose indoor fan speed is only one step
SW1-6	button		Product model whose indoor fan speed is two steps or three steps
		Fan speed: three steps	Product model whose indoor unit fan speed is three steps
Remote control function 01	Indoor unit fan	Fan speed: two steps (Hi-Lo)	Product model whose indoor unit fan speed is two steps
hemote control function of	speed	Fan speed: two steps (Hi-Me)	
		Fan: one step	Product model whose indoor unit fan speed is only one step
Remote control function 06	"Auto" operation	"Auto" operation enabled	Product model where "Auto" mode is selectable
nemote control function of	setting	"Auto" operation disabled	Product model without "Auto" mode
Indoor unit function 13	Heating fan	Low fan speed	Product model except FDUS
illuoor ullit luliction 13	control	Intermittent operation	FDUS

Note 2: Fan speed of "High speed" setting

Fan speed setting				
ran speed setting	50 mmil - 50 mm - 50 m	50 mm m - 50 m	50 mm M - 50 mm	
Standard	Hi — Mid — Lo	Hi — Lo	Hi — Mid	
High speed 1 · 2	UHi — Hi — Mid	UHi — Mid	UHi — Hi	
and the state of t				

Initial setting of some indoor unit is "High speed"

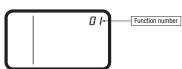
Note 3: As for plural indoor unit, set indoor functions to each master and slave indoor unit.

But only master indoor unit is received the setting change of indoor unit function "07 Operation permission/ prohibition" and "08 External input".

7. How to set functions by button operation

(1) Stop air-conditioner, and simultaneously press AIR CON No. and C MODE buttons at the same time for over three seconds.

The function number "01" blinks in the upper right.



- (2) Press $\boxed{\text{TEMP}} \triangle$ or $\boxed{\text{TEMP}} \bigcirc$ button. Select the function number.
- (3) Press MODE button. Decide the function number.

(4) [In the case of selecting the remote control function (01-06)]

① The current setting number of the selected function number blinks

Function number: "01" (lighting) Setting number: "01" (blinking)



- ② Press TEMP or TEMP Select the setting number.
- ③ Press **₹ MODE** button.

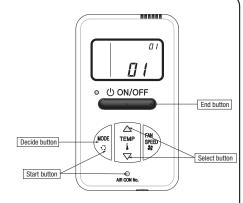
The setting is completed.

Light is on for approximately 3 to 20 seconds while data of the decided function No. and setting No. is transmitted. (Example)

Function number: "01" (lighting for 3 to 20 seconds) Setting number: "01" (lighting for 3 to 20 seconds)



Then, the screen goes back to the function number blinking indication (1), if the setting is sequentially conducted, continue with the same procedures. If the setting is finished, proceed to (5) .



[In the case of selecting the indoor unit function (07-14)]

① "88" blinks on the temperature setting indicators.

(blinking for approximately 2 to 10 seconds while data are read)

After that, the current setting number of the selected function number blinks. (Example)

Function number: "07" (lighting) Setting number: "01" (blinking)



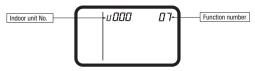
Proceed to (2).

[Note]

a. In the case of connecting one remote control to plural indoor units, the display will be as follows:

Indoor unit No. display: "U 000" (blinking)

(Display the lowest number among the connected indoor units.)



b. Press $\boxed{\text{TEMP} \triangle}$ or $\boxed{\text{TEMP} \nabla}$ button.

Select the indoor unit No. to be set.

If "U ALL" is selected, the same setting can be set to all units.

c. Press MODE button.

Decide the indoor unit No.

"88" blinks on the temperature setting indicators. (blinking for 2 to 10 seconds while data is read)

When AIR CON No. button is pressed, go back to the indoor unit selection display (for example, "U 000" blinking).

 $\begin{tabular}{ll} \hline 2 \\ \hline \end{tabular} \begin{tabular}{ll} \hline TEMP \triangle \\ \hline \end{tabular} \begin{tabular}{ll} \hline \end{tabular} \begin{tab$

Select the setting number

3 Press MODE button

The setting is completed.

Light is on for approximately 3 to 20 seconds while data of the decided function No. and setting No. is transmitted.

(Example)

Indoor unit No.: "U 000" (lighting for 3 to 20 seconds) Function number: "07" (lighting for 3 to 20 seconds) Setting number: "01" (lighting for 3 to 20 seconds)



Then, the screen goes back to the function number blinking indication (1), if the setting is sequentially conducted, continue with the same procedures. If the setting is finished, proceed to (5).

(5) Press ON/OFF button. The setting is completed.

• Even if 🖰 ON/OFF button is pressed during setting, the setting is ended. However, any details where the setting has not been completed will be ineffective.

• The setting contents are stored in the control, and even if the power failure occur, this will not be lost.

[Confirmation method for current setting]

According to the operation, the "setting number" displayed first after selecting "function number" and pressing TMODE button is the currently set content. (However, in the case of selecting "U ALL" (all units), the setting number of the lowest number among the indoor units is displayed.)

3.4 OA SPACER (FDTC series)

This manual describes the installation methods for OA spacer (TC-OAS-E2) and the duct joint (TC-OAD-E).

This OA spacer is designed for assembling on the indoor unit (FDTC Series), not for be using independently.

PJZ012D125

Application model	FDTC15-56KXZE1
	FDTC25-60VH

OPrepare the duct (size: Ø75) and the booster fan at site.

OFor the installation of indoor unit, refer to the installation manual attached to the indoor unit.

SAFETY PRECAUTIONS Read the "SAFETY PRECAUTIONS" carefully first of all and then strictly follow it during the installation work in order to protect yourself. **.** WARNING • Installation should be performed by the specialist. ! If you install the unit by yourself, it may lead to serious trouble such as water leakage, electric shock, fire, and injury due to overturn of the unit. • Install the system correctly according to these installation manuals. Improper installation may cause explosion, injury, water leakage, electric shock, and fire. • Use the genuine accessories and the specified parts for installation. If parts unspecified by our company are used it could cause water leakage, electric shock, fire, and injury due to overturn of the unit. • Turn off the power source during servicing or inspection work. If the power is supplied during servicing or inspection work, it could cause electric shock and injury by the operating fan. • Shut off the power before electrical wiring work. It could cause electric shock, unit failure and improper running. **∴CAUTION** • Do not install and use the unit where corrosive gas (such as sulfurous acid gas etc.) or flammable gas (such as thinner, petroleum etc.) may be generated or accumulated, or volatile flammable substances are handled. It could cause the corrosion of heat exchanger, breakage of plastic parts etc. And inflammable gas could cause fire.

1 Before installation Confirm the following parts are included: OA spacer (TC-OAS-E2) Duct joint (TC-OAD-E) Insulation 1 Insulation 2 Spacer Bracket 1 Bracket 2 Bracket 3 Bracket 4 Bolt **Duct Joint** (120×54) (40×60) 3 4 20

② Prior study before installation (Usage limitation)

(1) Temperature conditions for OA spacer

- · Adjust the temperature conditions of mixed air with outdoor air and indoor air within the usage range of suction air temperature for the air-conditioner.
- · The usage temperature conditions of intake outdoor air and indoor air around the ducts are shown in the following table.
- · If the temperature conditions of intake outdoor air do not meet, process the outdoor air

Oneration made	Usage temp	Usage temperature conditions			
Operation mode	Intake outdoor air	Indoor air around the ducts			
In heating	5°C DB or higher	18.5°C WB or lower and 60% RH or lower			
In cooling	29°C DB or lower and 80% RH or lower	20°C DB or higher			

(2) Intake outdoor air volume

· Intake outdoor air volume is 3.0 m³/min at the maximum (when two sets of duct joints are used). Up to two sets of duct joint can be installed on OA spacer.

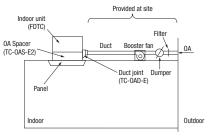
In case one set of duct joint is installed: 1.5 m³/min max.

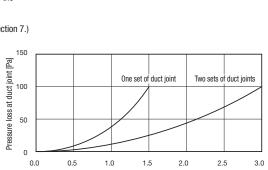
In case two sets of duct joint is installed: 3.0 m3/min max.

· Select the booster fan based on the duct resistance plus the pressure loss at the duct joint. (See the figure)

(4) Other conditions

- ${\boldsymbol{\cdot}}$ Determine the capacity of air conditioner based on the calculation of air-conditioning load including the heat load of intake outdoor air.
- · Install the filter for the intake outdoor air and the reverse flow prevention dumper during the duct work at site.
- · Insulate the duct and duct joint in order to prevent dewing.
- · Interlock the operation of booster fan with ON/OFF operation of the indoor unit. (See Section 7.)





(Suspension bolts pitch)

(TC-OAS-F2)

530 Suspension bolts pitch)

175

Control box

325

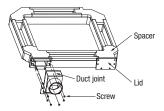
Introduced outdoor air volume [m³/min]

③ Installation of duct joint (TC-OAD-E) onto OA spacer

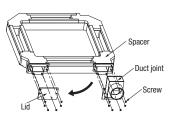
·There are two places where the duct joint can be installed.

When installing one duct joint

Install OA spacer at either one of two installation places on the duct joint.

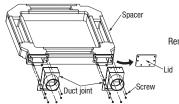


To install the duct joint, screw it in as shown at left.



When installing the duct joint at the lid side, remove the lid and reinstall it at the other end before installing the duct joint.

When installing two duct joints



Remove the lid and then install two pieces of duct joint.

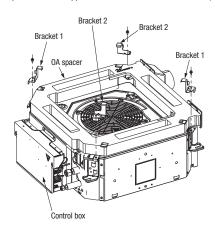
4 Installation of OA spacer on the indoor unit

OA spacer can be installed regardless whether the indoor unit has already been hanged or not. (It is recommended to install before hanging the unit for convenience of installation.)

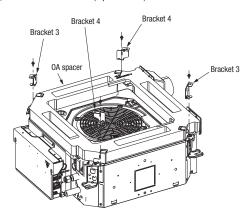
1-1. When installing OA spacer before hanging the indoor unit

① Placing OA spacer on the indoor unit, fix the brackets 1 and 2 (2 pieces

Install OA spacer in the appropriate position that the duct joint side of OA spacer becomes opposite to the control box of indoor unit (FDTC). $\label{eq:control}$



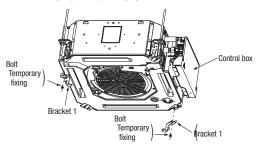
② Fix the brackets 3 and 4 (2 pieces each) with bolts.



1-2. When installing OA spacer after hanging the indoor unit

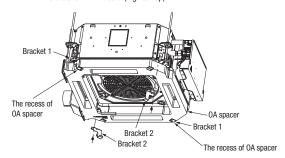
1 After hanging the indoor unit (*), fix the bracket 1 (2 pieces) temporarily with bolt by 2 turns as shown in the figure.

* For the height (position) of hanging the indoor unit, refer to Section 5.

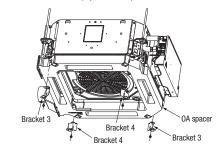


② Install OA spacer.

- i. Install it in the way that the recess of OA spacer will fit on the bracket 1 fixed temporarily at the step ①.
- ii. Tighten the bolt of bracket 1.
- iii. Fix the bracket 2 with bolt. (Tighten up)



③ Fix the brackets 3 and 4 (2 pieces each) with bolts.

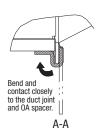


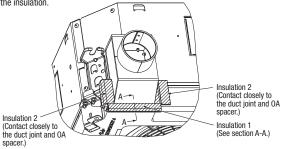
2. Applying insulation

Applying the insulation attached to duct joint set (TC-OAD-E)

- ① Applying the insulation 1 as shown in the figure.
- ② Applying the insulation 2 as shown in the figure.

* Be sure to cover the entire surface of sheet metal of the duct joint with the insulation.

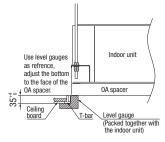


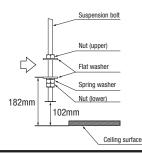


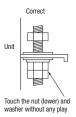
(5) Installation of indoor unit

Work procedure

- 1. This units is designed for 2 \times 2 grid ceiling.
 - If necessary, please detach the T bar temporarily before you install it.
 - If it is installed on a ceiling other than 2×2 grid ceiling, provide an inspection port on the control box side.
- 2. Arrange the suspension bolt at the right position (530mm530mm).
- 3. Make sure to use four suspension bolts and fix them so as to be able to hold 500N load.
- 4. Ensure that the lower end of the suspension bolt should be 102mm above the ceiling plane. Temporarily put the four lower nuts 182mm above the ceiling plane and the upper nuts on distant place from the lower nuts in order not to obstruct hanging the indoor unit or adjust the indoor unit position, and then hang the indoor unit.
- 5. Adjust the indoor unit position after hanging it by inserting the level gauge (Packed together with the indoor unit.) attached on the package into the air supply port and checking if the gap between the ceiling plane and the indoor unit is appropriate. (*) In order to adjust the indoor unit position, adjust the lower nuts while the upper nuts are put on distant place. Conrm there is no backlash between the hanger plate for suspension bolt and the lower nut and washer.
 - * Use the level gauge only when OA spacer has been installed before hanging (4 1-1 only).

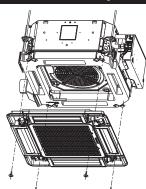








6 Installation of panel



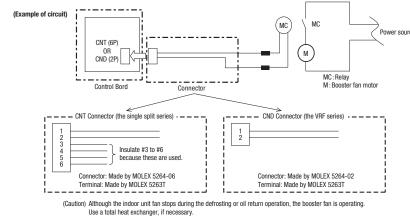
Tighten the panels to the brackets 3 and 4 with bolts. For further details, refer to the installation manual of panel.

(Caution) Connect the connector of lover motor within the control box.

7 Interlocking with the indoor unit fan

©Connect the Single split series and the VRF series to CNT on the indoor PCB and to CND on the indoor PCB respectively. If a ventilation device is connected been geared with the motion of indoor device (ON: DC12V output, OFF: 0V output), the ventilation device is operated/stopped.

Set it at "VENT LINK" by selecting "No. 11 VENT LINK SET" from the functional setting by remote control. For details, refer to the "ELECTRIC WIRNG WORK INSTRUCTION" of indoor unit.



3.5 DUCT JOINT (FDTC series)

PJZ012D073

• This product is used by assembling on the spacer (TC-0AS-E2)

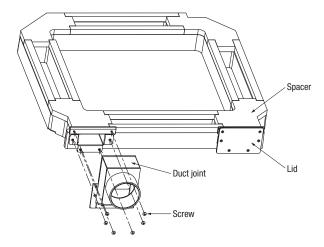
1.Before installation

• Confirm the following parts are included:

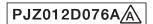
Duct joint	Screw	Insulation 1 (120 × 54)	Insulation 2 (40 × 60)
1	6	1	2

2.Regarding the use of this product

- Fix the product on the spacer (TC-OAS-E2) as shown below.
 For the installation method, refer to the installation manual of the spacer.



3.6 FILTER KIT (FDUM series)



This manual contains installation points and operating instructions for the filter kit manufactured by MHI. Carry out the work following the instructions below.

This manual also contains information on the usage after installation,

so keep this manual properly with USER'S MANUAL provided with the indoor unit.

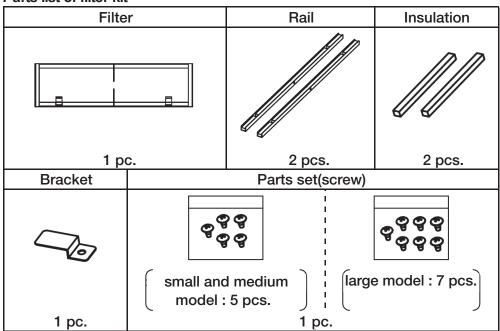


- · After unpacking, carry out this work on the ground.
- Do not carry out the work during operation, or there is a danger of being entangled in the rotating parts and getting injured.
- Clean the air filter regularly.
- · Be sure to entrust qualified serviceman to performance on the air filter.
- · Be sure to cut off the power and stop the unit before performing maintenance.

1. Table of filter kit parts No. and corresponding object models

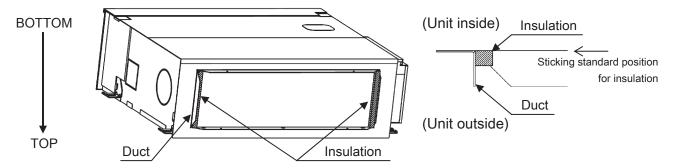
	Small model	Medium model	Large model
Single type	40, 50	60, 71	100 - 140
Multi type	22 - 56	71, 90	112 - 160
Filter Kit	UM-FL1EF	UM-FL2EF	UM-FL3EF

2. Parts list of filter kit

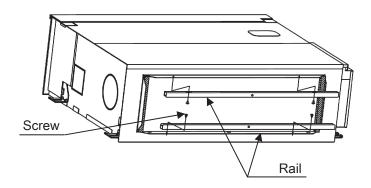


3. Installation Points

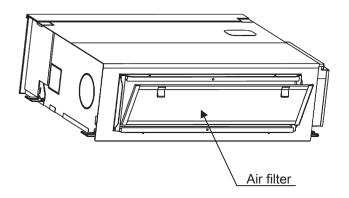
(1) Stick the insulation on both inner sides of the duct, leaving no space up and down.



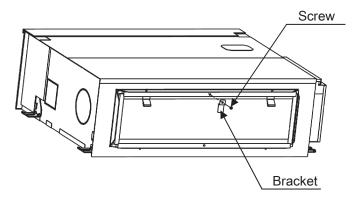
- (*) After unpacking, bottom side of the unit is located at the upper side.
- (2) Install the rail on both inner sides of the duct with the screw.

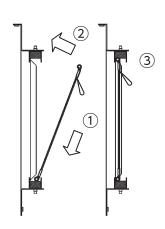


(3) Install the air filter on the rails.



(4) Install the bracket on the rail with the screw.





Installation procesure

(**) When the unit is installed, bottom side of the unit is located at the lower side.

3.7 INTERFACE KIT (SC-BIKN2-E)

When RC-EX3A is connected, please use SC-BIKN2-E by all means.

RKZ012A099

Accessories included in package

Be sure to check all the accessories included in package.

No.	Part name	Quantity
1	Indoor unit's connection cable (cable length: 1.8m)	1
2	Wood screws (for mounting the interface: ø4x 25)	2
3	Tapping screws (for the cable clump and the interface mounting bracket)	3
4	Interface mounting bracket	1
⑤	Cable clamp (for the indoor unit's connection cable)	1
6	CnT terminal connection cable (total cable length: 0.5m)	1

Safety precautions

Before use, please read these Safety precautions thoroughly before installation

● All the cautionary items mentioned below are important safety related items to be taken into consideration, so be sure to observe them at all times.

Incorrect installation could lead to serious consequences such as death, major injury or environmental destruction.

Symbols used in these precautions



Always go along these instruction.

● After completed installation, carry out trial operation to confirm no anomaly, and ask the user to keep this installation manual in a good place for future reference.

Æ

Warnings



- ●Installation must be carried out by a qualified installer.
- If you install it by yourself, it may cause an electric shock, fire and personal injury, as a result of a system malfunction.
- ■Install it in full accordance with the installation manual.

Incorrect installation may cause an electric shock, fire and personal injury.

● Electrical work must be carried out by a qualified electrician in accordance with the technical standard for electrical equipment, the indoor wiring standard and this installation manual.

Incorrect installation may cause an electric shock, fire and personal injury.

Use the specific cables for wiring. And connect all the cables to terminals or connectors securely and clamp them with cable clamps in order for external forces not to be transmitted to the terminals directly.

Incomplete connection may cause malfunction, and lead to heat generation and fire.

●Use the original accessories and specified components for installation.

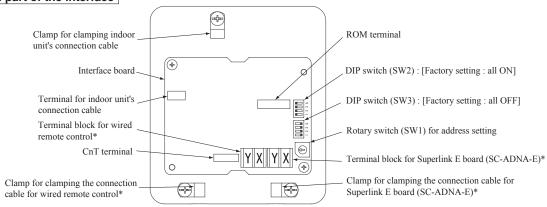
If the parts other than those prescribed by us are used, it may cause an electric shock, fire and sersonal injury.

Connecting the indoor unit's connection cable to the interface

- (1) Remove the upper case of the interface.
- Remove 2 screws from the interface casing before removal of upper casing. ②Connect the indoor unit's connection cable to the interface.
- Connect the connector of the indoor unit connection cable to the
- connector on the interface's circuit board.
- (3) Fix the indoor unit's connection cable with the cable clamp.
 - Cable can be brought in from the top or from the back.
 - · Cut out the punch-outs for the connection cables running into the casing with cutter.
- (4) Connect the indoor unit's connection cable to the indoor control PCB.
 - Connect the indoor unit's connection cable to the indoor control PCB securely.
 - Clamp the connection cable to the indoor control box securely with the cable clamp provided as an accessory.
 - Regarding the cable connection to the indoor unit, refer to the installation manual for

Wiring inlet (top or back) 3 Fix the cable with the cable clamp 2 Connect the indoor unit's connection cable (1)Remove the upper case

Name of each part of the interface



*Either the connection cables of Superlink E board (SC-ADNA-E) or of wired remote control is connectable.

Switch	Setting	Function	Switch	Setting	Function
SW2-1	ON**	CnT level input	SW2-3	ON**	External input (CnT input)
3 W 2-1	OFF	CnT pulse input	3 W 2-3	OFF	Operation permission/prohibition (CnT input)
SW2-2	ON**	Wired remote control : Enable	SW2-4	ON**	Annual cooling : Enable***
3 W 2-2	OFF	Wired remote control : Disable	3 W Z-4	OFF	Annual cooling : Disable***

^{**} Factory setting

*** Indoor fan control at low outdoor air temperature in cooling

Wiring inlet

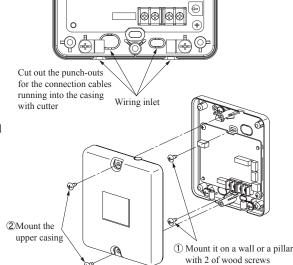
0

Installation of the interface

- Install the interface within the range of the connection cable length (approximately 1.3m) from the indoor unit.
- Be sure not to extend the connection cable on site. If the connection cable is extended, malfunction may occur.
- Fix the interface on the wall, pillar or the like.
- Don't install the interface and wired remote control at the following places.
 - OPlaces exposed to direct sunlight
 - OPlaces near heating devices
 - OHigh humidity places
 - OSurfaces where are enough hot or cold to generate condensation
 - OPlaces exposed to oil mist or steam directly
 - OUneven surface

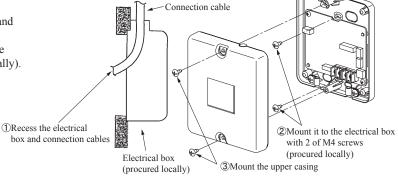
Mounting the interface directly on a wall

- ①Mount the lower casing of the interface on a flat surface with wood screws provided as standard accessory.
- 2 Mount the upper casing.



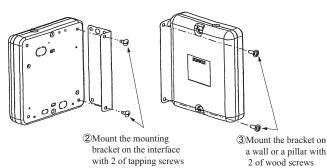
Recessing the interface in the wall

- ①Recess the electrical box (procured locally) and connection cables in the wall.
- ②Mount the lower casing of the interface to the electrical box with M4 screws (procured locally).
- 3 Mount the upper casing.



Mounting the interface with the mounting bracket

- ①Mount the upper casing.
- ②Mount the mounting bracket to the interface with tapping screws provided as standard accessory.
- 3 Mount the mounting bracket on wall or the like with wood screws provided as standard accessory.



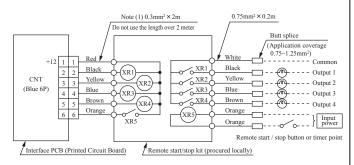
Installation check items

- ☐ Are the connection cables connected securely to the terminal blocks and connectors?
- ☐ Are the thickness and length of the connection cables conformed with the standard?

Functions of CnT connector

It is available to operate the air-conditioner and to monitor the operation status with the external control unit (remote display) by sending the input/output signal through CnT connector on the indoor control PCB.

- ①Connect a external remote control unit (procured locally) to CnT terminal.
- ②In case of the pulse input, switch OFF the DIP switch SW2-1 on the interface PCB.
- When setting operation permission/prohibition mode, switch OFF the DIP switch SW2-3 on the interface PCB.

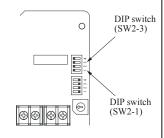


Input/	г:	Output	signal	Ctt	
Output	Function	Relay	ON/OFF	Content	
Output 1	Operation output	XR1	ON	During air-conditioner operation	
Output 2	Heating output	XR2	ON	During heating operation	
Output 3	Compressor operation output	XR3	ON	During compressor running	
Output A	Malfunction output	VD4	ON	During anomalous ston	

- •XR₁₋₄ are for the DC 12V relay
- XR5 is a DC 12/24V or AC 220-240V relav
- ●CnT connector (local) maker, model

Connector	Molex	5264-06
Terminals	Molex	5263T

Input/ Output Function		SW2-1			SW2-3				Operation by
		Setting		Setting	Input signal		Content	Air- conditioner	remote control
Output			Setting	Setting	Level/Pulse	XR5	Content	Conditioner	remote control
				ON*		OFF→ON	External input	ON	
		ON* Level input	ON*	Level	ON→OFF	OFF		Allowed	
	D . 1		OFF		OFF→ON	Operation permission	OFF		
Input	External control			OFF		ON→OFF	Operation prohibition	OFF	Not allowed
	input	OFF Pulse input ON*	ON*	Pulse	OFF→ON	External input	OFF→ON		
	OFF						ON→OFF	Allowed	
			OFF	OFF 11	OFF→ON	Operation permission	ON		
				OFF	Level	ON→OFF	Operation prohibition	OFF	Not allowed



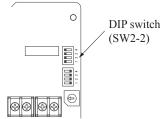
In case of the remote control (RC-EX3 or later model), the external outputs (1-4) and the external input can be changed using the function setting of remote control. For the setting method, refer to the installation manual. Also refer to the technical manual to know how it is adapted to the function setting for the external outputs and input, at the indoor unit side.

Connection of Superlink E board

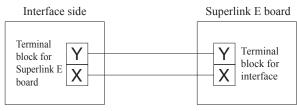
Regarding the connection of Superlink E board, refer to the installation manual of Superlink E board. For electrical work, power source for all of units in the Superlink system must be turned OFF.

①Switch ON the DIP switch SW2-2 (Factory setting: ON) on the interface PCB.

Caution: Wireless remote control attached to the indoor unit can be used in parallel, after connecting the wired remote control. However, some of functions other than the basic functions such as RUN/STOP, temperature setting, etc. may not work properly and may have a mismatch between the display and the actual behavior.



②Wiring connection between the interface and the Superlink E board.



3Clamp the connection cables with cable clamps.

No.	Names of recommended signal wires
1	Shielded wire
2	Vinyl cabtyre round cord
3	Vinyl cabtyre round cable
4	Vinyl insulated wire vinyl sheathed cable for control

Within 200 m $0.5 \text{ mm}^2 \times 2 \text{ cores}$ Within 300 m $0.75 \text{ mm}^2 \times 2 \text{ cores}$

Within 400 m $1.25 \text{ mm}^2 \times 2 \text{ cores}$

Within 600 m $2.0 \text{ mm}^2 \times 2 \text{ cores}$

^{*} Factory setting

DIP switch

(SW2-2)

0

Connection of wired remote control

Regarding the connection of wired remote control, refer to the installation manual of wired remote control. ①Switch ON the DIP switch SW2-2 (Factory setting: ON) on the interface PCB.

Caution: Wireless remote control attached to the indoor unit can be used in parallel, after connecting the wired remote control. However, some of functions other than the basic functions such as RUN/STOP, temperature setting, etc. may not work properly and may have a mismatch between the display and the actual behavior.

②Wiring connection between the interface and the wired remote control.

Installation and wiring of wired remote control

- (A) Install the wired remote control with reference to the attached installation manual of wired remote control.
- $\bigcirc 0.3$ mm² \times 2 cores cable should be used for the wiring of wired remote control.
- © Maximum length of wiring is 600m.

If the length of wiring exceeds 100m, change the size of cable as mentioned below. 100m-200m: $0.5\text{mm}^2 \times 2$ cores, 300m or less: $0.75\text{mm}^2 \times 2$ cores, 400m or less: $1.25\text{mm}^2 \times 2$ cores, 600m or less: $2.0\text{mm}^2 \times 2$ cores However, cable size connecting to the terminal of wired remote control should not exceed 0.5mm². Accordingly if the size of connection cable exceeds 0.5mm², be sure to downsize it to 0.5mm² at the nearest section of the wired remote control and waterproof treatment should be done at the connecting section in order to avoid contact failure.

- Don't use the multi-core cable to avoid malfunction.
- (E) Keep the wiring of wired remote control away from grounding (Don't touch it to any metal frame of building, etc.).
- © Connect the connection cables to the terminal blocks of the wired remote control and the interface securely (No polarity).
- (3) Clamp the connection cables with cable clamps.

Control of multiple units by a single wired remote control

Multiple units (up to 16) can be controlled by a single wired remote control. In this case, all units connected with a single wired remote control will operate under the same mode and same setting temperature.

- ①Connect all the interface with 2 cores cables of wired remote control line.
- ②Set the address of indoor unit for remote control communication from "0" to "F" with the rotary switch SW1 on the interface PCB.
- 3 After turning the power ON, the address of indoor unit can be displayed by pressing AIR CON No. button on the wired remote control. Make sure all indoor units connected are displayed in order by pressing ▲ or ▼ button.

Master/Slave setting wired when 2 of wired remote control are used

Maximum two wired remote control can be connected to one indoor unit (or one group of indoor units)

①Set the DIP switch SW1 on the wired remote control to "Slave" for the slave remote control. (Factory setting: Master)

O Caution: Remote control sensor of the slave remote control is invalid.

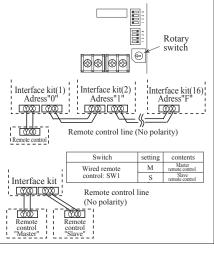
• When using the wireless remote control in parallel with the wired remote control; Since temperature setting range of wired remote control is different from that of wireless remote control, please adjust the setting range of wired remote control to be the same setting range of wireless remote control by following procedure. (The set temperature may not be displayed correctly on the wireless remote control, unless change of temperature setting range is done.) Changing procedure of temperature setting range is as follows.

How to set upper and lower limit of temperature setting range

- 1. Stop the air-conditioner, and press (SET) and (MODE) button at the same time for 3 seconds or more.
 - The indication changes to "FUNCTION SET▼"
- Press **▼**button once, and change to the "TEMP RANGE **▲**" indication.
- Press (SET) button, and enter the temperature range setting mode.
- Confirm that the "Upper limit ▼" is shown on the display.
- Press (SET)button to fix.
 - ①Indication: "ⓑ∨∧SET UP"→"UPPER 28°C ∨∧"
 - ②Select the upper limit value 30°C with temperature setting button △."UPPER30°C∨"
 - ③Press (SET) button to fix. "UPPER 30°C" (Displayed for two seconds) After the fixed upper limit value displayed for two seconds, the indication will returm to"UPPER LIMIT ▼'
- 7. Press **▼**button once, "LOWER LIMIT ▲" is selected, press (SET) button to fix. ①Indication: " $^{\bullet} \lor \land SET UP" \rightarrow "LOWER 20^{\circ} C \lor \land '$
 - ②Select the lower limit value 18°C with temperature setting button ☑."LOWER18°C∧"
 - ③Press (SET) button to fix. "LOWER 18°C" (Displayed for two seconds) After the fixed lower limit value displayed for two seconds, the indication will returm to"LOWER LIMIT▼
- 8. Press ON/OFF button to finish.

Temperature setting range

1 & &	
Mode	Temperature setting range
Cooling, Heating, Dry, Auto	18-30°C

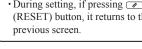


• It is possible to quit in the middle by pressing ON/OFF button, but the change of setting is incompleted.

Previous button

ШШ

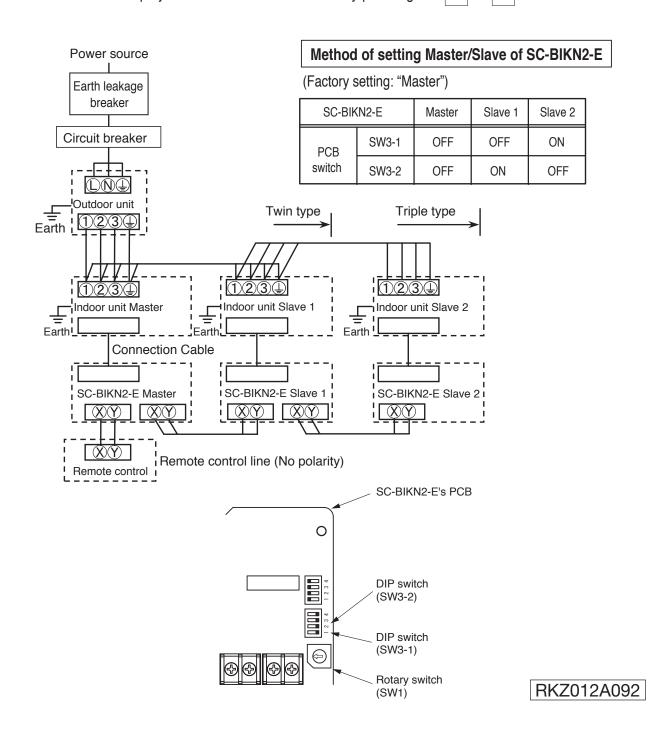
 During setting, if pressing (RESET) button, it returns to the previous screen



TEMP RANG

3.7.1 Cable connection for SRK twin/triple installation

- ①Connect the same pairs number of terminal block "①, ②, and ③ "and " ⊗ and ♥ " between master and slave indoor units.
- ②Do the same address setting of all inside units belong to same refrigerant system by rotary switch SW1 on SC-BIKN2-E's PCB (Printed circuit board).
- ③Set slave indoor unit as "slave 1" through" slave 2" by address switch SW3-1, 3-2 on SC-BIKN2-E's PCB.
- ④When the AIR CON No. button on the remote control unit is pressed after turning on the power, an indoor unit's address number will be displayed. Do not fail to confirm that the connected indoor unit's numbers are displayed on the remote control unit by pressing the ▲ or ▼ button.



3.8 SUPERLINK E BOARD (SC-ADNA-E)



- Read and understand the instructions completely before starting installation.
- Refer to the instructions for both indoor and outdoor units.

Safety precautions

- Carefully read "Safety precautions" first. Follow the instructions for installation.
- Precautions are grouped into "Warning 🕰 " and "Caution 🖈". The "Warning 🛧 " group includes items that may lead to serious injury or death if not observed. The items included
- in the "Caution A" group also may lead to serious results under certain conditions. Both groups are crucial for safety installation. Read and understand them carefully.

 After installation, conduct the test operation of the device to check for any abnormalities. Describe how to operate the device to the customer following the installation instruction manual. Instruct the customer to keep this installation instruction for future reference.

.♠Warning

- This device should be installed by the dealer where you purchase the device or a licensed professional shop. If the device is incorrectly installed by the
- customer, it may result in electric shock or fire.

 Install the device carefully following the installation instruction. If the device is incorrectly installed, it may result in electric shock or fire.
- Use the accessory parts and specified parts for installation. If any parts that do not match the specifications are used, it may result in electric shock or fire.
- A person with the electrical service certification should conduct the service based on the "Technical standards for electrical facilities", "Electrical Wiring Code", and the installation instruction. If the work is done incorrectly, it may result in electric shock or fire
- Wiring should be securely connected using the specified types of wire. No external force on the wire should be applied to any terminals. If a secure connection is not achieved, it may result in electric shock or fire.

- Provide ground connection.
 - The ground line should never be connected to the gas supply piping, the water supply piping, the lightning conductor rod, nor the telephone ground. If the grounding is improper, it may result in electric shock.

∴Caution

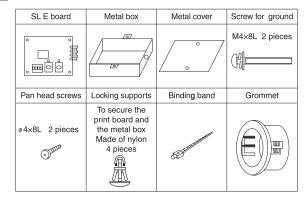
- Do not install the device in the following locations.
 - 1.Where there is mist/spray of oil or steam such as kitchens. 2.Where there is corrosive gases such as sulfurous acid gas.

 - 3. Where there is a device generating electromagnetic waves These may interfere with the control system resulting in the device becoming
 - 4. Where flammable volatile materials such as paint thinner and gasoline may exist or where they are handled. This may cause a fire.

1 Application

Indoor-to-outdoor three core communication specification type 3 (since

2 Accessories



3 Function

Allowing the central control SL1N-E, SL2NA-E, and SL4-AE/BE to control and monitor the commercial air-conditioner unit.

Control switching

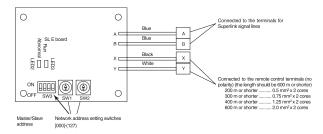
Settings can be changed by the DIP switch SW3 on the SL E board as in the

Switch	Symbol	Switch	Remarks
		ON	Master
	ļ	OFF (default)	Slave
		ON	Fixed previous protocol
	2	OFF (default)	Automatic adjustment of Superlink protocol
SW3	ON	Indicates the forced operation stop when abnormality has occurred.	
	3	OFF (default)	Indicates the status of running/stop as it is, when abnormality has occurred.
	4	ON	The hundredth address activated "1"
	4	OFF (default)	The hundredth address activated "0"

5 Connection outline

Note for setting the address

- Set the address between 00 and 47 for the previous Superlink connection and between 000 and 127 for the new Superlink connection. (*1)
- Do not set the address overlapping with those of the other devices in the network. (The default is 000)



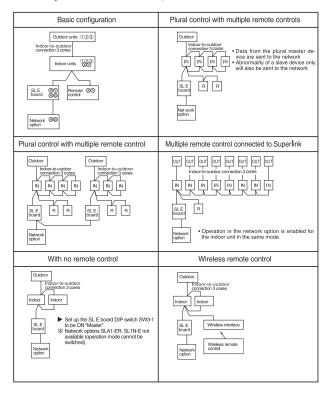
(*1) Whether the actual link is either the new Superlink or the previous Superlink depends on the models of the connected outdoor and indoor units. Consult the agent or the dealer.

Signal line specification

Communication method	Previous Superlink	New Superlink
Line type	MVVS	MVVS
Line diameter	0.75 - 1.25mm ²	0.75/1.25mm ²
Signal line (total length)	up to 1000m	up to 1500/1000m (*2)
Signal line (maximum length)	up to 1000m	up to 1000m

- (*2) Up to 1500 m for 0.75 mm^2 , and up to 1000 m for 1.25 mm^2 . Do not use 2.0 mm². It may cause an error.
- (*3) Connect grounding on both ends of the shielding wire. For the grounding method, refer to the section "6 Installation".

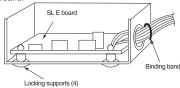
- Set the Superlink network address with SW1 (tens place), SW2 (ones place), and SW3 (hundreds place).
- (2) Set the SL E board SW3-1 to be ON (Master) when using this without any remote control (no wired remote controller nor wireless remote control).
- (3) Set up the plural master/slave device using the DIP switches on the indoor unit board.
- (4) Set up the remote control master/slave device using the slide switch on the remote control board.
- (5) Set up "0" to "F" using the address rotary switch on the indoor unit board when controlling the indoor unit with the multiple remote control.



6 Installation

- 1. When using the metal box (mounted on the indoor unit / mounted on the back of the remote control):
 - (1) Mount the SL E board in the metal box using the locking supports.
 - (2) Wiring should go through the provided grommet since then through the wiring to the hole on the Metal box.

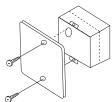
Secure the grommet after inserting the grommet into the Metal box as shown in below figure, then tie the wiring at the outlet of the unit using a binding band.



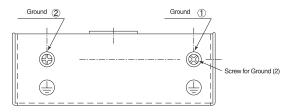
▲ When installed outside the indoor unit, put the metal cover on.



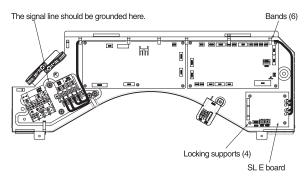
▲ When installed on the back of the remote control, mount it directly on the remote control bottom case.



Connect grounding. Connect grounding for the power line to Ground ①, and grounding for the signal line to Ground ② or to the Ground on the indoor unit control box.



- 2. When connecting to the indoor unit control box (ceiling-concealed type and FDT type only):
- (1) Mount the SL E board in the control box using the locking supports.
- (2) Remove 6 bands from the box and put the wiring through the bands to be secured.



Electrical shock hazard! make sure to turn the power off for servicing. Be cautious so that no abnormal force should be applied to the wiring. Do not let the SL E board hung by the wiring. Do not damage the board with a screw driver.

The board is sensitive to static electricity. Release the static electricity of your body before servicing.

(You can do this by touching the control board which is grounded).

Location of installation

Install the device at the location where there are no electromagnetic waves nor where there is water and dust. The specified temperature range of the device is 0 to 40°C. Install the device at the location where the ambient temperature stays within the range. If it exceeds the specification, make sure to provide solution such as installing a cooling fan. When used outside of the range, it may cause abnormal operation.

7 Indicator display

Check the LED 3 (green) and LED 2 (red) on the SL E board for flashing.

SL E boa	ard LEDs		Display on the
Red	Green	Inspection mode	integrated network control device
Off	Flashing	Normal communication	
Off	Off	Disconnection in the remote control communication line (X or Y) Short-circuit in the remote control communication line (between X and Y) Faulty indoor unit remote control power Faulty remote control communication circuit Faulty CPU on SL E board	No corresponding unit number
One flash	Flashing	Disconnection in the Superlink signal line (A or B) Short-circuit in the Superlink signal line (between A and B) Faulty Superlink signal circuit	
Two flashes	Flashing	Faulty address setting for the SL E board (Set up the address for previous SL E board : more than 48 new SL E board : more than 128)	
Three flashes	Flashing	SL E board parent not set up when used without a remote control Faulty remote control communication circuit	E1
Four flashes	Flashing	Address overlapping for the SL E board and the Superlink network connected indoor unit	E2
Off	Flashing	Number of connected devices exceeds the specification for the multiple indoor unit control	E10

MICRO INVERTER PACKAGED AIR-CONDITIONERS



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