Manual No.'21•SRK-T-299 updated December 23, 2021



# **TECHNICAL MANUAL**

## **INVERTER RESIDENTIAL AIR-CONDITIONERS**

Wi-Fi option model (SRK only)

(Split system, air to air heat pump type)

Wall mounted type SRK20ZS-W, -WB, -WT/SRC20ZS-WA SRK25ZS-W, -WB, -WT/SRC25ZS-WA2 SRK35ZS-W, -WB, -WT/SRC35ZS-WA2

Floor standing type SRF25ZS-W/SRC25ZS-WA2 SRF35ZS-W/SRC35ZS-WA2

Ceiling concealed type SRR25ZS-W/SRC25ZS-WA2 SRR35ZS-W/SRC35ZS-WA2

4-way ceiling cassette type FDTC25VH1/SRC25ZS-WA2 FDTC35VH1/SRC35ZS-WA2 Note:

- (1) SRK series in this technical manual will have the service code "/A".
  - SRK20ZS-W, -WB, -WT $\rightarrow$  SRK20ZS-W/A, -WB/A, -WT/A
  - SRK25ZS-W, -WB, -WT $\rightarrow$  SRK25ZS-W/A, -WB/A, -WT/A
  - SRK35ZS-W, -WB, -WT $\rightarrow$  SRK35ZS-W/A, -WB/A, -WT/A
- (2) SRC25/35ZS-WA2 and SRC25/35ZS-WA have the same specifications, so SRK25/35ZS-W can also be connected to SRC25/35ZS-WA. However, SRF/SRR/FDTC cannot be connected to SRC25/35ZS-WA.

**MITSUBISHI HEAVY INDUSTRIES THERMAL SYSTEMS, LTD.** 

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Inverter type	
Product capacity (Cooling capacity)	
Model name SRK : Wall mounted type	
SRF : Floor standing type	
Example:       FDTC 25 VH1       SRR : Ceiling concealed type         SRC : Outdoor unit       SRC : Outdoor unit	
Series code	
Product capacity (Cooling capacity)	

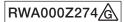
- Model name [4-way ceiling cassette type]

## **1. SPECIFICATIONS**

(1) Wall mounted type (SRK)

ltom				Model			SRK202	1		
Item					Indo	or unit SRK20			por unit SRC20ZS-WA	
Power sourc						1 P	hase, 220 - 240		60Hz	
	Nominal cooling capac			kW				.) - 2.9 (Max.))		
	Nominal heating capac	city (range)		kW			2.7 ( 0.9 (Min.	.) - 4.3 (Max.))		
	Heating capacity (H2)			kW						
		Co	oling			0.44 ( 0.19 - 0.80 )				
	Power consumption	Hea	ating	kW		0.59 ( 0.20 - 1.40 )				
		Hea	ating (H2)				-	-		
	Max power consumpti	ion				-	1.0	65		
		Co	oling				2.6/2.5/2.4 (2	220/ 230/ 240	0	
	Running current		ating	A			3.2 / 3.0 / 2.9 (2		,	
Operation	Inrush current, max cu		5			32	2/3.0/2.9 (220/		,	
data			oling				,	'9		
	Power factor		ating	%				5		
	EER		oling					55		
			-							
	COP		ating					58		
			ating (H2)					-		
	Sound power level		oling			48			56	
		Hea	ating			50			56	
		Co	oling	dB(A)	Hi: 34 I	Me: 25 Lo: 22	2 ULo: 19		45	
	Sound pressure level	He	ating		Hi: 36	Me: 29 Lo: 23	3 ULo: 19		45	
	Silent mode sound pre	essure level		1				Coc	ling:42 / Heating:43	
Exterior dime	ensions (Height x Width			mm		290 x 870 x 2	30		0 x 780(+62) x 290	
Exterior app		-17				e snow (Pure v			Stucco white	
	color : Munsell, RAL)					)Y 9.3/0.1), (		(4.2	2Y 7.5/1.1), (7044)	
Net weight				kg	( ).(	9.5	,	(	31.5	
0	type & Quantity			5				BM-C507	7SBE71(Rotary type) x 1	
1	motor (Starting method)	<u> </u>		kW		_			5 (Inverter driven)	
•		)							,	
0	pil (Amount, type)			L					AMOND FREEZE MB75)	
	Type, amount, pre-charg	je length)		kg				1	he piping of 15m)	
Heat exchan					Louver fir	ns & inner groo	•	1	& inner grooved tubing	
Refrigerant o	control					Capil	lary tubes + Elect	tronic expansion valve		
Fan type & C	Quantity				٦	angential fan	x 1		Propeller fan x 1	
Fan motor (S	Starting method)			W	4	2 x1 (Direct dr	rive)	2	4 x1 (Direct drive)	
A :		Co	oling		Hi: 9.3 N	/le: 7.0 Lo: 5.	9 ULo: 5.0		27.4	
Air flow		Hea	ating	m³/min	Hi: 10.0	Me: 8.5 Lo: 6	3.5 ULo: 5.9		23.6	
Available ext	ternal static pressure		0	Ра		0			0	
Outside air ir	· · · · · · · · · · · · · · · · · · ·					Not possible			_	
	ality / Quantity				Polypror	oylene net (Wa				
	ration absorber					r sleeve (for fa	,		a (far fan matar 8 aamproop	
					пирре	i sleeve (lor la			e (for fan motor & compress	
Electric heat	1				Defrost heater 230V 1     Wireless remote control					
Operation	Remote control									
control	Room temperature con	ntrol			Microcomputer thermostat					
	Operation display				RUN: Green, TIMER: Yellow					
					Compressor overheat protection, Overcurrent protection,					
Safety equip	oments				Frost protection, Serial signal error protection, Indoor fan motor error pro Heating overload protection( High pressure control), Cooling overload p					
		(2.5)			Heating c			1.	· ·	
	Refrigerant piping size	: (O.D)		mm			ne: φ6.35 (1/4")	Gas line: $\phi$	( )	
	Connecting method					Flare connecti			Flare connection	
notollat'	Attached length of pip	ing		m	Liquid lir	ne : 0.54 / Gas				
Installation data	Insulation for piping					Ne	ecessary ( Both s	ides ), indepen	dent	
uala	Refrigerant line (one v	vay) length		m			Max			
	Vertical height diff. bet		d I.U.	m	М	ax.10 ( Outdor	or unit is higher )	/ Max.10 ( Out	door unit is lower)	
	Drain hose					connectable (	<b>,</b>	· · · · ·	x 2 pcs., Hole size $\phi$ 16 x 9	
Drain nump	max lift height			mm			- 1			
	ded breaker size			A	l			6		
									Λ	
	ed rotor ampere)			A	4 - 3	2	3.2 / 3.0 / 2.9 (2			
nterconnect	ing wires Size	x Core numbe	er		1.5mm		Juding earth cab	ie) / ierminal b	lock (Screw fixing type)	
P number						IPX0		L	IPX4	
Standard ac	cessories				Mounting kit,		ergen clear filter x 1 : Not included Dra		washable deodorizing filter > d Drain elbow	
Option parts	;						Interface kit (	SC-BIKN2-E)		
Notes (	1) The data are measur	ed at the follo	owina con	ditions			The ni	pe length is 5m.		
	,				Quital i					
	Item		r temperat		Outdoor air		Stand	lards		
		DB	W		DB	WB				
	Operation			•	050	a. 4% a	19051/	51_T1 ]		
	Operation Cooling	27°C	19	C	35°C         24°C         ISO5151-T1           7°C         6°C         ISO5151-H1					
		27°C 20°C	19	- <u> </u>	35 C 7°C	24 C 6°C				
	Cooling			- -				51-H1		

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

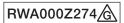


			Μ	lodel	L	SRK25ZS-W					
Item					Indo	or unit SRK25	Outdoor unit SRC25ZS-WA2				
Power source	1		i		<b></b>	1 Pi		/, 50Hz / 220V, 60Hz			
	Nominal cooling capac			kW	ļ		2.5 ( 0.9 (Min.	, , ,,			
	Nominal heating capac	ity (range)		kW			3.2 ( 0.9 (Min.	.) - 4.5 (Max.))			
	Heating capacity (H2)		ŀ	kW		-					
		Cool	ing				0.62 ( 0.1	9 - 0.90 )			
	Power consumption	Heat	ing l	κW			0.74 ( 0.2	.0 - 1.42 )			
		Heat	ing (H2)				-	-			
	Max power consumption	on					1.0	65			
	Duranian aureant	Coo	ing				3.3 / 3.1 / 3.0 (2	220/ 230/ 240V)			
	Running current	Heat	ing	А			3.7 / 3.6 / 3.4 (2	220/ 230/ 240V)			
Operation	Inrush current, max cur					3.7	230/ 240V) Max. 9				
data		Cool	ina			011	8	,			
	Power factor	Heat		%				0			
	EER	Coo	-		1		4.0				
		Heat	<u> </u>				4.3				
	COP		ing (H2)				4.				
						50	-				
	Sound power level	Coo	-			50		56			
	· ·	ing			53		58				
	Sound pressure level	Cool	-	B(A)		/le: 28 Lo: 23		46			
		Heat	ing		Hi: 39 M	/le: 30 Lo: 24	ULo: 19	46			
	Silent mode sound pres	ssure level						Cooling:42 / Heating:43			
Exterior dime	ensions (Height x Width x	Depth)	r	nm	;	290 x 870 x 23	30	540 x 780(+62) x 290			
Exterior appe					Fine	e snow (Pure w	vhite)	Stucco white			
(Equivalent c	olor : Munsell, RAL)				( 8.0	Y 9.3/0.1),(9	9003)	(4.2Y 7.5/1.1), (7044)			
Net weight				kg		9.5		31.0			
Compressor	type & Quantity					_		RM-C5077SBE71(Rotary type)			
Compressor	motor (Starting method)		ł	kW		_		0.75 (Inverter driven)			
	pil (Amount, type)			L	1	_	0.30 ( DIAMOND FREEZE MB7				
•	Type, amount, pre-charge	a lenath)		kg	B'	32 0.62 in out	door unit (Incl. th	ne amount for the piping of 15m )			
Heat exchan		ellerigtil)		ĸġ		is & inner groo					
	*				Louver III		•	M fins & inner grooved tubing			
Refrigerant c						·		tronic expansion valve			
Fan type & Q						angential fan x		Propeller fan x 1			
Fan motor (S	Starting method)			W		2 x1 (Direct dri	,	24 x1 (Direct drive)			
Air flow		Coo	<u> </u>	³/min		le: 8.0 Lo: 5.9		27.4			
All HOW		Heat	ing 🔤	/	Hi: 11.3	Me: 8.7 Lo: 6	.7 ULo: 5.9	23.6			
Available ext	ernal static pressure			Pa		0		0			
Outside air ir	ntake					Not possible		_			
Air filter, Qua	lity / Quantity				Polypror	ylene net (Was	shable) x 2	_			
Shock & vibr	ation absorber				Rubbe	r sleeve (for fai	n motor)	Rubber sleeve (for fan motor & comp			
Electric heate					<ul> <li>– Defrost heater 230V 11</li> </ul>						
	Remote control						Wireless ren				
Operation	Room temperature con	trol			<u> </u>		Microcomput				
control		lioi					1				
	Operation display				<u> </u>		RUN: Green ,				
Cofoty oguip	monto				Compressor overheat protection, Overcurrent protection Frost protection, Serial signal error protection, Indoor fan motor error protection						
Safety equip	ments						ure control ), Cooling overload protect				
	Refrigerant piping size	(O D)		nm			Gas line: $\phi$ 9.52 (3/8")				
		(0.0)	r		<u> </u>		ne: φ6.35 (1/4")				
	Connecting method					Flare connection	-	Flare connection			
nstallation	Attached length of pipir	ng		m		ie : 0.54 / Gas					
data	Insulation for piping				<b></b>	Ne		ides ), independent			
	Refrigerant line (one w	., .		m	ļ		Max				
	Vertical height diff. betw	veen O/U and	/U	m		,	<u> </u>	/ Max.10 ( Outdoor unit is lower )			
	Drain hose				Hose	connectable (	VP16)	Hole size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16			
Drain pump,	max lift height		r	nm		_		_			
	led breaker size			A			1	6			
	ed rotor ampere)			A	†		3.7 / 3.6 / 3.4 (2				
Interconnecti		Core number			1.5mm <sup>2</sup>	x 4 cores (Inc		le) / Terminal block (Screw fixing type			
P number	5					IPX0		IPX4			
Standard aco	cessories				Mounting kit (		rgen clear filter y 1	, Photocatalytic washable deodorizing fil			
						Allel	-				
Option parts					<u> </u>		Interface kit (	JU-DININZ-E J			
Notes (1	1) The data are measure	ed at the follow	ving conditi	ons.			The pip	pe length is 5m.			
Г	Item	Indoor air t	emperature		Outdoor air t	emperature	1				
	Operation	DB	WB	-+	DB	WB	Stand	ards			
F		27°C	19°C		35°C	24°C	ISO515	51_T1			
F	Cooling										
F	Heating	20°C	_		7°C	6°C	ISO515				
L	Heating (H2)	20°C			2°C	1°C	ISO515	01-H2			
10	2) This air-conditioner is	manufacture	d and tested	d in c	onformity with	the ISO.					
		manaotaro			nber. During or						

				Model	ļ	SRK35ZS-W					
Item					Indo	or unit SRK35		SRC35ZS-WA2			
Power source	1					1 P		/, 50Hz / 220V, 60Hz			
	Nominal cooling capac	ity (range)		kW			3.5 ( 0.9 (Min.	, , ,,			
	Nominal heating capac	ity (range)		kW			4.0 ( 0.9 (Min.	) - 5.0 (Max.))			
	Heating capacity (H2)			kW							
		Coo	ing				7 - 1.24 )				
	Power consumption	Heat	ing	kW			0.94 ( 0.1	9 - 1.45)			
		Heat	ing (H2)				-	-			
	Max power consumption	n					1.0	65			
	Duranian aureant	Coo	ing				4.4 / 4.2 / 4.0 (2	220/ 230/ 240V)			
	Running current	Heat	ing	А			4.6/4.4/4.2 (2	220/ 230/ 240V)			
Operation	Inrush current, max cur					4.6		230/ 240V) Max. 9			
data	,	Coo	ina				2				
	Power factor	Heat	-	%		93					
	EER	Cool					3.9	-			
		Heat	-				4.2				
	COP		ing (H2)				-	-			
						54			61		
	Sound power level	Coo	-			-					
		ing			56			61			
	Sound pressure level	Cool	-	dB(A)		Me: 30 Lo: 26			50		
		Heat	ing		Hi: 41	Me: 36 Lo: 2	5 ULo:19		48		
	Silent mode sound pres					-		· ·	5 / Heating:44		
	ensions (Height x Width x	: Depth)		mm		290 x 870 x 23		540 x 780	D(+62) x 290		
Exterior appe						e snow (Pure v	- /		co white		
	olor : Munsell, RAL)				( 8.0	Y 9.3/0.1),(	9003)		1.1),(7044)		
Net weight				kg		9.5			34.5		
Compressor '	type & Quantity					-		RM-B5077SBE	2(Rotary type) x 1		
Compressor	motor (Starting method)			kW		_		0.90 ( Inv	erter driven )		
Refrigerant o	oil (Amount, type)			L		_		0.30 ( DIAMON	D FREEZE MB75 )		
Refrigerant (1	Type, amount, pre-charge	e lenath)		kg	R	32 0.78 in out	door unit (Incl. th	e amount for the pipi			
Heat exchang						is & inner groo			<b>e</b> ,		
Refrigerant co	*				Louvorin		•	M fins & inner grooved tubing			
Fan type & Q					Т	angential fan :		Propeller fan x 1			
				W		•		24 x1 (Direct drive)			
Fan motor (S	starting method)			vv		2 x1 (Direct dr	,	,	,		
Air flow		Coo		m³/min		Me: 8.7 Lo: 7			31.5		
		Heat	ing		HI: 12.3	Ae: 11.0 Lo:	7.0 UL0: 5.6	. 2	27.8		
	ernal static pressure			Pa		0			0		
Outside air in	ntake					Not possible	9		-		
Air filter, Qua	lity / Quantity				Polyprop	ylene net (Wa	shable) x 2		_		
Shock & vibra	ation absorber				Rubbe	r sleeve (for fa	in motor)	Rubber sleeve (for fa	an motor & compress		
Electric heate	er	-				_		Defrost hea	ter 230V 110W		
-	Remote control						Wireless ren	note control			
Operation	Room temperature con	trol					Microcomput	er thermostat			
control	Operation display						RUN: Green ,	TIMER: Yellow			
						Compresso		tection			
Safety equipr	ments				Compressor overheat protection, Overcurrent protection Frost protection, Serial signal error protection, Indoor fan motor erro						
,bi								ire control ), Cooling			
	Refrigerant piping size	(O.D)		mm			ne: φ6.35 (1/4")	Gas line: \$\$ 9.52 (3	-		
	Connecting method	<u>.</u> ,			1	Flare connecti	, , ,	, ,	onnection		
	Attached length of pipir	na		m		ie : 0.54 / Gas	-		_		
nstallation	Insulation for piping							ides ), independent			
data	Refrigerant line (one w	av) length		m	+	INE	Max				
			1/11	m		y 10 ( ∩			nit in lower)		
	Vertical height diff. betv	veen 0/0 and	/ U	m		,		/ Max.10 ( Outdoor u	,		
Dusia	Drain hose				Hose	connectable (	(סוידע)	Hole size $\phi$ 20 x 2 pcs	s., ποιe size φ 16 x 9		
	max lift height			mm		—			-		
	led breaker size			А			1				
L.R.A. (Locke	ed rotor ampere)			А			4.6/4.4/4.2 (2				
nterconnecti	ing wires Size x	Core number			1.5mm <sup>2</sup>		cluding earth cab	le) / Terminal block (S	e ,		
P number						IPX0			PX4		
Standard acc	cessories				Mounting kit, 0	Clean filter ( Alle	rgen clear filter x 1	, Photocatalytic washat	ole deodorizing filter x		
Option parts							Interface kit (	SC-BIKN2-E)			
Notos (1	1) The data are measure	d at the follow	ving cond	litions				- los ath 1 C			
	,						The pip	be length is 5m.			
	Item	Indoor air t			Outdoor air	-	Stand	ards			
	Operation	DB	WE	3	DB	WB	Starlu				
	Cooling	27°C	19°C	C	35°C	24°C	ISO515	51-T1			
F	Heating	20°C	-		7°C	6°C	ISO515	1-H1			
	rieating					1					
-	Heating (H2)	20°C	-		2°C						
				ted in a		1°C	ISO515	61-H2			

Item			ľ	Model	امما	or unit SRK202	SRK202	Outdoor unit SRC20ZS-WA		
	20				indód		-			
Power source	1	h. (van e. e)		100/		I Pr		(, 50Hz / 220V, 60Hz		
	Nominal cooling capacit			kW			2.0 ( 0.9 (Min.	/ //		
	Nominal heating capacit	iy (range)		kW			2.7 ( 0.9 (Min.	) - 4.3 (IVIAX.))		
	Heating capacity (H2)			kW				-		
		Coolin	-				9 - 0.80 )			
	Power consumption	Heatin	g	kW			0.59 ( 0.2	0 - 1.40)		
			ig (H2)					-		
	Max power consumption	n					1.6	35		
	Dunning ourset	Coolin	g				2.6/2.5/2.4 (2	220/ 230/ 240V)		
	Running current	Heatin	g	A			3.2 / 3.0 / 2.9 (2	220/230/240V)		
Operation	Inrush current, max curr	rent	<u> </u>	ľ		3.2 /	3.0 / 2.9 (220/	230/ 240V) Max. 9		
data	,	Coolin	a				7	,		
	Power factor	Heatin	-	%			8			
	EER	Coolin	-				4.5			
		Heatin	-	ŀ			4.5			
	COP		<u> </u>	-						
			ig (H2)				-			
	Sound power level	Coolin	-			48		56		
		Heatin	-			50		56		
	Sound pressure level	Coolin	g (	dB(A)	Hi: 34 N	le: 25 Lo: 22	ULo: 19	45		
		Heatin	g	ĺ	Hi: 36 N	le: 29 Lo: 23	ULo: 19	45		
	Silent mode sound pres	sure level	7	[		-		Cooling:42 / Heating:43		
Exterior dim	ensions (Height x Width x	Depth)		mm	2	90 x 870 x 23	о	540 x 780(+62) x 290		
Exterior app	earance				Fine snow	(8.0Y 9.3/0.1	),(9003)	Stucco white		
	color : Munsell, RAL)					PB 2.44/0.25		(4.2Y 7.5/1.1), (7044)		
Net weight			1	kg		9.5		31.5		
Compressor	r type & Quantity					_		RM-C5077SBE71(Rotary type) x 1		
	motor (Starting method)			kW		_		0.75 (Inverter driven)		
	oil (Amount, type)			L				0.30 (DIAMOND FREEZE MB75)		
-	Type, amount, pre-charge	length)		kg	B3	2 0 62 in outo	loor unit (Incl. th	e amount for the piping of 15m )		
		lengtilj	—	ĸġ			· · · ·			
Heat exchar	·				Louver IIn	s & inner groov		M fins & inner grooved tubing		
Refrigerant								tronic expansion valve		
Fan type & (						angential fan x		Propeller fan x 1		
Fan motor (S	Starting method)			W		x1 (Direct driv	,	24 x1 (Direct drive)		
Air flow		Coolin	g n	n³/min	Hi: 9.3 M	e: 7.0 Lo: 5.9	ULo: 5.0	27.4		
		Heatin	g		Hi: 10.0 N	le: 8.5 Lo: 6.	5 ULo: 5.9	23.6		
Available ex	ternal static pressure			Ра		0		0		
Outside air i	ntake					Not possible	i	_		
Air filter. Qua	ality / Quantity				Polyprop	ylene net (Was	hable) x 2	_		
	ration absorber					sleeve (for far	· · · · ·	Rubber sleeve (for fan motor & compress		
Electric heat		•			1100001			Defrost heater 230V 110W		
	Remote control									
Operation	Room temperature cont		-+		Wireless remote control Microcomputer thermostat					
control		roi	-+							
	Operation display						RUN: Green, 1	IMER: Yellow		
						Compressor overheat protection, Overcurrent protection				
O afati i i					<b>F</b>					
Safety equip	oments					ection, Serial s	ignal error prote	ection, Indoor fan motor error protection,		
Safety equip						ection, Serial s verload protect	signal error prote tion( High pressu	ection, Indoor fan motor error protection, ure control ), Cooling overload protection		
Safety equip	Refrigerant piping size (	O.D)		mm	Heating ov	ection, Serial s verload protect Liquid line	signal error prote tion( High pressu e: $\phi$ 6.35 (1/4")	ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 9.52 (3/8")		
Safety equip	Refrigerant piping size ( Connecting method				Heating ov	ection, Serial s verload protect Liquid line lare connectio	signal error protection(High pressure) e: $\phi$ 6.35 (1/4") n	ection, Indoor fan motor error protection, ure control ), Cooling overload protection		
	Refrigerant piping size ( Connecting method Attached length of pipin			mm m	Heating ov	ection, Serial s rerload protect Liquid line lare connectio e : 0.54 / Gas l	signal error protection(High pressure) e: $\phi 6.35 (1/4")$ n line : 0.47	ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: φ 9.52 (3/8") Flare connection		
nstallation	Refrigerant piping size ( Connecting method Attached length of pipin Insulation for piping	g			Heating ov	ection, Serial s rerload protect Liquid line lare connectio e : 0.54 / Gas l	signal error protection(High pressure: $\phi$ 6.35 (1/4") n line: 0.47 cessary (Both size	ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: φ 9.52 (3/8") Flare connection — ides ), independent		
Safety equip	Refrigerant piping size ( Connecting method Attached length of pipin	g			Heating ov	ection, Serial s rerload protect Liquid line lare connectio e : 0.54 / Gas l	signal error protection(High pressure) e: $\phi 6.35 (1/4")$ n line : 0.47	ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: φ 9.52 (3/8") Flare connection — ides ), independent		
nstallation	Refrigerant piping size ( Connecting method Attached length of pipin Insulation for piping	ig ay) length		m	Heating ov F Liquid lin	ection, Serial s verload protect Liquid line lare connectio e : 0.54 / Gas l Nec	signal error protection(High pressure e: $\phi$ 6.35 (1/4") n line : 0.47 cessary (Both signals)	ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: φ 9.52 (3/8") Flare connection ————————————————————————————————————		
nstallation	Refrigerant piping size ( Connecting method Attached length of pipin Insulation for piping Refrigerant line (one wa	ig ay) length		m m	Heating ov F Liquid lin	ection, Serial s verload protect Liquid line lare connectio e : 0.54 / Gas l Nec	signal error protection (High pressure $\phi$ 6.35 (1/4") n ine : 0.47 cessary (Both si Max r unit is higher ).	ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 9.52 (3/8") Flare connection 		
Installation data	Refrigerant piping size ( Connecting method Attached length of pipin Insulation for piping Refrigerant line (one wa Vertical height diff. betw	ig ay) length		m m	Heating ov F Liquid lin	ection, Serial s verload protect Liquid line lare connectio e : 0.54 / Gas Nec x.10 ( Outdoor	signal error protection (High pressure $\phi$ 6.35 (1/4") n ine : 0.47 cessary (Both si Max r unit is higher ).	ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: φ 9.52 (3/8") Flare connection ides ), independent .20 / Max.10 ( Outdoor unit is lower )		
Installation data Drain pump,	Refrigerant piping size ( Connecting method Attached length of pipin Insulation for piping Refrigerant line (one wa Vertical height diff. betw Drain hose max lift height	ig ay) length		m m m m	Heating ov F Liquid lin	ection, Serial s verload protect Liquid line lare connectio e : 0.54 / Gas Nec x.10 ( Outdoor	ignal error prote tion(High pressu e: $φ$ 6.35 (1/4") n ine : 0.47 cessary (Both si Max r unit is higher), /P 16 )	ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 9.52 (3/8") Flare connection 		
nstallation data Drain pump. Recommend	Refrigerant piping size ( Connecting method Attached length of pipin Insulation for piping Refrigerant line (one wa Vertical height diff. betw Drain hose , max lift height ded breaker size	ig ay) length		m m m m mm A	Heating ov F Liquid lin	ection, Serial s verload protect Liquid lim lare connectio e : 0.54 / Gas l Nec x.10 ( Outdoor connectable ( \ 	ignal error prote ion( High pressu e: φ6.35 (1/4") n ine : 0.47 bessary ( Both si Max r unit is higher ), /P 16 ) 1	ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 9.52 (3/8") Flare connection — ides ), independent .20 / Max.10 ( Outdoor unit is lower ) Hole size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16 x 9 — 6		
nstallation data Drain pump Recommend R.A. (Lock	Refrigerant piping size ( Connecting method Attached length of pipin Insulation for piping Refrigerant line (one wa Vertical height diff. betw Drain hose , max lift height ded breaker size red rotor ampere)	g ay) length reen O.U. and I.		m m m m	Heating ov F Liquid lin Ma Hose o	ection, Serial s verload protect Liquid line lare connectio e : 0.54 / Gas l Nec x.10 ( Outdoor connectable ( \ 	ignal error prote tion( High pressu e: φ6.35 (1/4") n ine : 0.47 bessary ( Both si Max r unit is higher ) , /P 16 ) 11 3.2 / 3.0 / 2.9 (2	ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: φ 9.52 (3/8") Flare connection 		
nstallation Jata Drain pump Recommend R.A. (Lock nterconnec	Refrigerant piping size ( Connecting method Attached length of pipin Insulation for piping Refrigerant line (one wa Vertical height diff. betw Drain hose , max lift height ded breaker size red rotor ampere)	ig ay) length		m m m m mm A	Heating ov F Liquid lin Ma Hose o	ection, Serial s verload protect Liquid lim lare connectio e : 0.54 / Gas l Nec x.10 ( Outdoor connectable ( \ 	ignal error prote tion( High pressu e: φ6.35 (1/4") n ine : 0.47 bessary ( Both si Max r unit is higher ) , /P 16 ) 11 3.2 / 3.0 / 2.9 (2	ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 9.52 (3/8") Flare connection 		
nstallation Jata Drain pump Recommend R.A. (Lock nterconnec	Refrigerant piping size ( Connecting method Attached length of pipin Insulation for piping Refrigerant line (one wa Vertical height diff. betw Drain hose , max lift height ded breaker size red rotor ampere)	g ay) length reen O.U. and I.		m m m m mm A	Heating ov F Liquid lin Ma Hose o 1.5mm <sup>2</sup>	ection, Serial s rerload protect Liquid lim lare connectio e : 0.54 / Gas I Nec x.10 ( Outdoor connectable ( \ 	ignal error protection (High pressu e: $\phi$ 6.35 (1/4") n ine : 0.47 bessary (Both si Max r unit is higher), /P 16) 11 3.2 / 3.0 / 2.9 (2 uding earth cab	ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 9.52 (3/8") Flare connection — ides ), independent c.20 / Max.10 (Outdoor unit is lower ) Hole size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16 x 9 — 6 220/230/240V) le) / Terminal block (Screw fixing type) IPX4		
nstallation data Drain pump, Recommend R.A. (Lock nterconnec P number	Refrigerant piping size (         Connecting method         Attached length of piping         Insulation for piping         Refrigerant line (one way         Vertical height diff. betw         Drain hose         , max lift height         ded breaker size         ed rotor ampere)         ting wires	g ay) length reen O.U. and I.		m m m m mm A	Heating ov F Liquid lin Ma Hose o 1.5mm <sup>2</sup>	ection, Serial s verload protect Liquid lim lare connectio e : 0.54 / Gas l Nec x.10 ( Outdoor connectable ( \\ 	ignal error protection (High pressu icon (High pressu $e: \phi 6.35 (1/4")$ n ine : 0.47 bessary (Both si r unit is higher), /P 16) 11 3.2 / 3.0 / 2.9 (2 uding earth cab gen clear filter x 1	ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 9.52 (3/8") Flare connection — ddes ), independent c.20 / Max.10 (Outdoor unit is lower ) Hole size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16 x 9 — 6 220/230/240V) le) / Terminal block (Screw fixing type) IPX4 , Photocatalytic washable deodorizing filter x		
nstallation data Drain pump. Recommen R.A. (Lock nterconnec P number Standard ac	Refrigerant piping size (         Connecting method         Attached length of piping         Insulation for piping         Refrigerant line (one way         Vertical height diff. betw         Drain hose         , max lift height         ded breaker size         ted rotor ampere)         ting wires       Size x	g ay) length reen O.U. and I.		m m m m mm A	Heating ov F Liquid lin Ma Hose o 1.5mm <sup>2</sup>	ection, Serial s verload protect Liquid lim lare connectio e : 0.54 / Gas l Nec x.10 ( Outdoor connectable ( \\ 	ignal error protection (High pressu icon (High pressu $e: \phi 6.35 (1/4")$ n ine : 0.47 bessary (Both si r unit is higher), /P 16) 11 3.2 / 3.0 / 2.9 (2 uding earth cab gen clear filter x 1 Not included Dra	ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 9.52 (3/8") Flare connection — des ), independent c.20 / Max.10 (Outdoor unit is lower ) Hole size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16 x 9 — 6 220/230/240V) le) / Terminal block (Screw fixing type) IPX4 , Photocatalytic washable deodorizing filter x ain grommet and Drain elbow		
nstallation lata Prain pump Recommen R.A. (Lock nterconnec P number Standard ac	Refrigerant piping size (         Connecting method         Attached length of piping         Insulation for piping         Refrigerant line (one way         Vertical height diff. betw         Drain hose         , max lift height         ded breaker size         ted rotor ampere)         ting wires       Size x	g ay) length reen O.U. and I.		m m m m mm A	Heating ov F Liquid lin Ma Hose o 1.5mm <sup>2</sup>	ection, Serial s verload protect Liquid lim lare connectio e : 0.54 / Gas l Nec x.10 ( Outdoor connectable ( \\ 	ignal error protection (High pressu icon (High pressu $e: \phi 6.35 (1/4")$ n ine : 0.47 bessary (Both si r unit is higher), /P 16) 11 3.2 / 3.0 / 2.9 (2 uding earth cab gen clear filter x 1	ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 9.52 (3/8") Flare connection — des ), independent c.20 / Max.10 (Outdoor unit is lower ) Hole size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16 x 9 — 6 220/230/240V) le) / Terminal block (Screw fixing type) IPX4 , Photocatalytic washable deodorizing filter > ain grommet and Drain elbow		
nstallation lata Drain pump Recommend R.A. (Lock nterconnec P number Standard ac Option parts	Refrigerant piping size (         Connecting method         Attached length of piping         Insulation for piping         Refrigerant line (one way         Vertical height diff. betw         Drain hose         max lift height         ded breaker size         red rotor ampere)         ting wires         Size x	ig ay) length reen O.U. and I. Core number		m m m A A	Heating ov F Liquid lin Ma Hose o 1.5mm <sup>2</sup>	ection, Serial s verload protect Liquid lim lare connectio e : 0.54 / Gas l Nec x.10 ( Outdoor connectable ( \\ 	ignal error prote ion( High pressu e: $\phi$ 6.35 (1/4") n ine : 0.47 bessary ( Both si Max r unit is higher ) , /P 16 ) 11 3.2 / 3.0 / 2.9 (2) uding earth cab gen clear filter x 1 Not included Dra Interface kit ( 5)	ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 9.52 (3/8") Flare connection 		
nstallation lata Drain pump Recommend R.A. (Lock nterconnec P number Standard ac Option parts	Refrigerant piping size (         Connecting method         Attached length of piping         Insulation for piping         Refrigerant line (one way)         Vertical height diff. betwork         Drain hose         , max lift height         ded toror ampere)         ting wires       Size x         scessories         scessories	ay) length veen O.U. and I. Core number d at the followi	U.	m m m A A A itions.	Heating ov F Liquid lin Ma Hose o 1.5mm <sup>2</sup> Mounting kit, C	ection, Serial s rerload protect Liquid lime lare connection e : 0.54 / Gas l Nec x.10 ( Outdoor connectable ( \ 	ignal error prote ion( High pressu e: $\phi$ 6.35 (1/4") n ine : 0.47 bessary ( Both si Max r unit is higher ) , /P 16 ) 11 3.2 / 3.0 / 2.9 (2) uding earth cab gen clear filter x 1 Not included Dra Interface kit ( 5)	ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: φ 9.52 (3/8") Flare connection — des ), independent c.20 / Max.10 (Outdoor unit is lower) Hole size φ 20 x 2 pcs., Hole size φ 16 x 9 — 6 220/230/240V) le) / Terminal block (Screw fixing type) IPX4 , Photocatalytic washable deodorizing filter stating grommet and Drain elbow		
nstallation data Drain pump Recommend R.A. (Lock nterconnec P number Standard ac Dption parts	Refrigerant piping size (         Connecting method         Attached length of piping         Insulation for piping         Refrigerant line (one wa         Vertical height diff. betw         Drain hose         , max lift height         ded breaker size         red rotor ampere)         ting wires         Size x	ay) length reen O.U. and I. Core number d at the followin Indoor air te	U.	m m m A A A itions.	Heating ov F Liquid lin Ma Hose o 1.5mm <sup>2</sup> Mounting kit, C	ection, Serial s verload protect Liquid lim lare connection e : 0.54 / Gas l Nec x.10 ( Outdoor connectable ( \ 	ignal error protection (High pressu icon (High pressu icon (High pressu icon (High pressu icon (High pressu icon (High pressu icon (High pressure) r unit is higher) r unit is	ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 9.52 (3/8") Flare connection — ides ), independent x.20 / Max.10 (Outdoor unit is lower ) Hole size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16 x 9 — 6 220/230/240V) le) / Terminal block (Screw fixing type) IPX4 , Photocatalytic washable deodorizing filter x ain grommet and Drain elbow SC-BIKN2-E ) pe length is 5m.		
nstallation data Drain pump Recommend R.A. (Lock nterconnec P number Standard ac Dption parts	Refrigerant piping size (         Connecting method         Attached length of piping         Insulation for piping         Refrigerant line (one way)         Vertical height diff. betwork         Drain hose         , max lift height         ded toror ampere)         ting wires       Size x         scessories         scessories	ay) length veen O.U. and I. Core number d at the followi	U.	m m m A A A itions.	Heating ov F Liquid lin Ma Hose o 1.5mm <sup>2</sup> Mounting kit, C	ection, Serial s rerload protect Liquid lime lare connection e : 0.54 / Gas l Nec x.10 ( Outdoor connectable ( \ 	ignal error prote ion( High pressu e: $\phi$ 6.35 (1/4") n ine : 0.47 bessary ( Both si Max r unit is higher ) , /P 16 ) 11 3.2 / 3.0 / 2.9 (2) uding earth cab gen clear filter x 1 Not included Dra Interface kit ( 5)	ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 9.52 (3/8") Flare connection — ides ), independent x.20 / Max.10 (Outdoor unit is lower ) Hole size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16 x 9 — 6 220/230/240V) le) / Terminal block (Screw fixing type) IPX4 , Photocatalytic washable deodorizing filter x ain grommet and Drain elbow SC-BIKN2-E ) pe length is 5m.		
nstallation data Drain pump Recommend R.A. (Lock nterconnec P number Standard ac Dption parts	Refrigerant piping size (         Connecting method         Attached length of piping         Insulation for piping         Refrigerant line (one wa         Vertical height diff. betw         Drain hose         , max lift height         ded breaker size         red rotor ampere)         ting wires         Size x	ay) length reen O.U. and I. Core number d at the followin Indoor air te	U.	m m M A A A itions.	Heating ov F Liquid lin Ma Hose o 1.5mm <sup>2</sup> Mounting kit, C	ection, Serial s verload protect Liquid lim lare connection e : 0.54 / Gas l Nec x.10 ( Outdoor connectable ( \ 	ignal error protection (High pressu icon (High pressu icon (High pressu icon (High pressu icon (High pressu icon (High pressu icon (High pressure) r unit is higher) r unit is	ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 9.52 (3/8") Flare connection 		
nstallation data Drain pump Recommend R.A. (Lock nterconnec P number Standard ac Dption parts	Refrigerant piping size (         Connecting method         Attached length of piping         Insulation for piping         Refrigerant line (one way         Vertical height diff. betwey         Drain hose         max lift height         ded breaker size         ed rotor ampere)         ting wires         Size x         accessories         S         1) The data are measured         Operation	ay) length reen O.U. and I. Core number d at the followin Indoor air ter DB	U.	m m M A A A itions.	Heating ov F Liquid lin Ma Hose o 1.5mm <sup>2</sup> Mounting kit, C Outdoor air to DB	ection, Serial s rerload protect Liquid lim lare connection e : 0.54 / Gas I Nec x.10 ( Outdoor connectable ( \ 	ignal error prote ion( High pressu :: ∲6.35 (1/4") n iine : 0.47 bessary ( Both si Max r unit is higher ) , /P 16 ) 11 3.2 / 3.0 / 2.9 (2 uding earth cab gen clear filter x 1 Not included Dra Interface kit ( 5 The pip	ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: φ 9.52 (3/8") Flare connection — ides ), independent c.20 / Max.10 ( Outdoor unit is lower ) Hole size φ 20 x 2 pcs., Hole size φ 16 x 9 — 6 220/ 230/ 240V) le) / Terminal block (Screw fixing type) IPX4 , Photocatalytic washable deodorizing filter x ain grommet and Drain elbow SC-BIKN2-E ) be length is 5m. ards 51-T1		
nstallation Jata Drain pump Recommend R.A. (Lock nterconnec P number Standard ac Dption parts	Refrigerant piping size ( Connecting method Attached length of pipin Insulation for piping Refrigerant line (one wa Vertical height diff. betw Drain hose max lift height ded breaker size ed rotor ampere) ting wires Size x ccessories (1) The data are measured Operation Cooling	ay) length reen O.U. and I. Core number d at the followin Indoor air ter DB 27°C	U.	m m M A A A itions.	Heating ov F Liquid lin Ma Hose o 1.5mm <sup>2</sup> Mounting kit, C Outdoor air t DB 35°C	ection, Serial s rerload protect Liquid limi lare connection e : 0.54 / Gas I Nec x.10 ( Outdoor connectable ( \ 	ignal error prote ion( High pressu :: ∲6.35 (1/4") n ine : 0.47 bessary ( Both si Max r unit is higher ) , /P 16 ) 11 3.2 / 3.0 / 2.9 (2 uding earth cab gen clear filter x 1 Not included Dra Interface kit ( 9 The pip Standa	ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: φ 9.52 (3/8") Flare connection — ides ), independent c.20 / Max.10 ( Outdoor unit is lower ) Hole size φ 20 x 2 pcs., Hole size φ 16 x 9 — 6 220/ 230/ 240V) Ie) / Terminal block (Screw fixing type) IPX4 , Photocatalytic washable deodorizing filter x ain grommet and Drain elbow SC-BIKN2-E ) be length is 5m. ards 51-T1 i1-H1		

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



ltem Power source			N	∕lodel	SRK25ZS-WB						
Dower course					Indoc	Indoor unit SRK25ZS-WB Outdoor u					
Swei Source	e					1 Ph	ase, 220 - 240V	, 50Hz / 220V, 6	0Hz		
	Nominal cooling capacit	ty (range)		kW			2.5 ( 0.9 (Min.	) - 3.1 (Max.))			
	Nominal heating capacit	ty (range)		kW			3.2 ( 0.9 (Min.	) - 4.5 (Max.))			
	Heating capacity (H2)			kW			-				
		Coo	ing			0.62 ( 0.19 - 0.90 )					
	Power consumption	Heat	ing	kW			0.74 ( 0.2	0 - 1.42)			
		Heat	ing (H2)				-	-			
	Max power consumptio	n					1.6	35			
	Duralisation	Coo	ing				3.3 / 3.1 / 3.0 (2	220/230/240V)			
	Running current	Heat	ing	А			3.7 / 3.6 / 3.4 (2	220/230/240V)			
Operation	Inrush current, max curr	rent				3.7 /	3.6/3.4 (220/	230/ 240V) Ma	ix. 9		
data		Coo	ing				. 8	6			
	Power factor	Heat	-	%			9	0			
	EER	Coo	ina				4.0	)3			
		Heat					4.3	32			
	COP		ing (H2)								
		Coo				50			56		
	Sound power level	Heat				53			58		
			-				111 or 10		46		
	Sound pressure level	Coo		dB(A)	L	Ae: 28 Lo: 23 Ae: 30 Lo: 24			46		
	Ollows we also as a	Heat	ung		HI: 39 M		UL0: 19	<u> </u>			
Test and a set	Silent mode sound pres					—			ng:42 / Heating:43		
	ensions (Height x Width x	Deptn)		mm		290 x 870 x 23	-		x 780(+62) x 290		
Exterior appe						(8.0Y 9.3/0.1			Stucco white		
	olor : Munsell, RAL)			1.	Black ( 4.	DPB 2.44/0.25	),(9011)	( 4.2)	(7.5/1.1), (7044)		
Net weight				kg		9.5			31.0		
	type & Quantity					_			SBE71(Rotary type) x 1		
Compressor	motor (Starting method)			kW		_			(Inverter driven)		
Refrigerant o	il (Amount, type)			L		_		0.30 ( DIA	MOND FREEZE MB75)		
Refrigerant (1	Type, amount, pre-charge	length)		kg	R	32 0.62 in outd	loor unit (Incl. th	e amount for the	e piping of 15m )		
Heat exchang	ger				Louver fir	is & inner groov	ved tubing	M fins &	inner grooved tubing		
Refrigerant c	ontrol				ĺ	Capilla	ry tubes + Elect	ronic expansion	n valve		
Fan type & Q	)uantity				Т	angential fan x	1	Propeller fan x 1			
Fan motor (S	starting method)			W	4	2 x1 (Direct driv	/e)	24	x1 (Direct drive)		
	, j	Coo	ina	0		le: 8.0 Lo: 5.9	,		27.4		
Air flow		Heat	<u> </u>	1³/min		Ae: 8.7 Lo: 6.7			23.6		
Available ext	ernal static pressure	1	-	Ра		0			0		
Outside air in	· · · · · · · · · · · · · · · · · · ·			i u		Not possible			_		
	lity / Quantity				Polypror	ylene net (Was	hable) x 2				
	ation absorber					r sleeve (for far	,	Pubbor cloovo	(for fan motor & compress		
Electric heate	· · · · · · · · · · · · · · · · · · ·				Парре	Sleeve (IOI Tai	(THOLOI)		t heater 230V 110W		
	1					-	\\//walaaa wax				
Operation	Remote control				Wireless remote control Microcomputer thermostat						
control		Room temperature control									
	Operation display						RUN: Green,				
Cofoty and	monto				Compressor overheat protection, Overcurrent protection Frost protection, Serial signal error protection, Indoor fan motor error protection						
Safety equip	ments				Frost protection, Serial signal error protection, Indoor fan motor error protection determined protection (High pressure control), Cooling overload protection (High pressure control), High pressure control), High pressure control (High pressure control), High pressure control (High pressure contr						
	Refrigerant piping size (	(ח ס		mm			e: φ6.35 (1/4")		<u> </u>		
		0.0/			<u> </u>		,				
	Connecting method	~				lare connectio		FI	are connection		
nstallation	Attached length of pipin	y		m	Liquia lir	e : 0.54 / Gas I		alaa \ too di internetionen t	-		
data	Insulation for piping					Nec		des ), independ	ent		
	Refrigerant line (one wa			m		10	Мах				
	Vertical height diff. betw	een O/U and	I/U	m		,			oor unit is lower)		
	Drain hose				Hose	connectable (	VP16)	Hole size $\phi$ 20 x	2 pcs., Hole size $\phi$ 16 x 9		
	max lift height			mm		_			-		
Recommend	ed breaker size			А			1	6			
L.R.A. (Locke	ed rotor ampere)			А			3.7 / 3.6 / 3.4 (2	,			
Interconnecti	ing wires Size x	Core number			1.5mm <sup>2</sup>	x 4 cores (Incl	uding earth cab	le) / Terminal blo	ock (Screw fixing type)		
P number						IPX0			IPX4		
Standard acc	cessories				Mounting kit, 0	Clean filter ( Allerg	gen clear filter x 1	, Photocatalytic w	ashable deodorizing filter x		
Option parts							Interface kit (	SC-BIKN2-E)			
Notes (*	1) The data are measure	d at the follow	vina condit	lione				- learnth ( C			
	<i>,</i>						The pip	be length is 5m.			
	Item		emperature	e	Outdoor air	-	Stand	ards			
Ŀ	Operation	DB	WB		DB	WB					
Г	Cooling	27°C	19°C		35°C	24°C	ISO515	51-T1			
1	Heating	20°C	-		7°C	6°C	ISO515	1-H1			
F					2°C	100	100515	1 110			
-	Heating (H2)	20°C			20	1°C	ISO515	1-112			
-	Heating (H2) 2) This air-conditioner is			d in o			150515	1-112			

			Model				ZS-WB			
Item				Indo	or unit SRK35Z	-	Outdoor unit SRC35ZS-WA2			
Power source	1				1 Ph		V, 50Hz / 220V, 60Hz			
	Nominal cooling capaci		kW				.) - 4.0 (Max.))			
	Nominal heating capaci	ty (range)	kW			4.0 ( 0.9 (Min.	.) - 5.0 (Max.))			
	Heating capacity (H2)		kW							
		Cooling				0.89 ( 0.1	17 - 1.24)			
	Power consumption	Heating	kW			0.94 ( 0.1	19 - 1.45 )			
		Heating	(H2)			-	-			
	Max power consumptio	'n				1.	65			
	Bunning ourrent	Cooling				4.4 / 4.2 / 4.0 (	220/ 230/ 240V)			
	Running current	Heating	A			4.6 / 4.4 / 4.2 (	220/ 230/ 240V)			
Operation	Inrush current, max curr	rent			4.6 /	230/240V) Max. 9				
data		Cooling			92					
	Power factor	Heating	%			9	03			
	EER	Cooling				3.	93			
		Heating				4.1	26			
	COP	Heating				-				
		Cooling	()	1	54		61			
	Sound power level	Heating			56		61			
		Cooling	dB(A)	Hi· 40	Me: 30 Lo: 26	LII o <sup>.</sup> 19	50			
	Sound pressure level	Heating	,		Me: 36 Lo: 26		48			
	Silent mode sound pro-			F11. 41		010.13	48 Cooling:45 / Heating:44			
Extorior dim-	Silent mode sound pres				 290 x 870 x 230	0	· · · · ·			
	ensions (Height x Width x	Deptil)	mm			-	540 x 780(+62) x 290			
Exterior appe	earance olor : Munsell, RAL)				v (8.0Y 9.3/0.1 .0PB 2.44/0.25		Stucco white (4 2X 7 5/1 1) (7044)			
<b>`</b>	noior . Wurisell, MAL)		ka	DiaCK (4.	9.5	,,(3011)	(4.2Y 7.5/1.1), (7044) 34.5			
Net weight	type & Quantity		kg		9.5		34.5 RM-B5077SBE2( Rotary type ) x 1			
	motor (Starting method)		kW		-		0.90 (Inverter driven)			
	il (Amount, type)		L	_			0.30 (DIAMOND FREEZE MB75)			
<b>.</b> .	Type, amount, pre-charge	: length)	kg				ne amount for the piping of 15m)			
Heat exchang	•			Louver fi	ns & inner groov		M fins & inner grooved tubing			
Refrigerant co	ontrol						tronic expansion valve			
Fan type & Q	antity			-	Tangential fan x	1	Propeller fan x 1			
Fan motor (S <sup>-</sup>	starting method)		W	4	2 x1 (Direct driv	ve)	24 x1 (Direct drive)			
Ainflow		Cooling	m³/min	Hi: 11.3	Me: 8.7 Lo: 7.0	0 ULo: 5.0	31.5			
Air flow		Heating	m <sup>*</sup> /min	Hi: 12.3	Me: 11.0 Lo: 7.	.0 ULo: 5.6	27.8			
Available exte	ernal static pressure		Pa	1	0		0			
Outside air in	ntake				Not possible		_			
Air filter. Qua	lity / Quantity			Polypro	pylene net (Was	shable) x 2	_			
	ation absorber				er sleeve (for fan	,	Rubber sleeve (for fan motor & compress			
Electric heate					_		Defrost heater 230V 110W			
	Remote control				mote control					
Operation	Room temperature cont	trol		Microcomputer thermostat						
control	Operation display				RUN: Green , TIMER: Yellow Compressor overheat protection, Overcurrent protect					
Safety equipr	ments			Frost pro			t protection, Overcurrent protection ror protection, Indoor fan motor error protection			
							ure control ), Cooling overload protection			
	Refrigerant piping size (	(O.D)	mm			e: φ6.35 (1/4")				
	Connecting method	,		1	Flare connectio	, , ,	Flare connection			
	Attached length of pipir		m		ne : 0.54 / Gas I		-			
Installation	Insulation for piping						ides ), independent			
data	Refrigerant line (one wa	av) length	m				x.20			
				N.A	av 10 ( Outdoo					
	Vertical height diff. betw		m			• ,	/ Max.10 (Outdoor unit is lower)			
Dueir	Drain hose			Hose	e connectable (	( סו אי	Hole size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16 x 9			
	max lift height		mm							
	ed breaker size		A				6			
	ed rotor ampere)		A				220/230/240V)			
Interconnecti	ing wires Size x	Core number		1.5mm	(	uding earth cab	ole) / Terminal block (Screw fixing type)			
IP number					IPX0		IPX4			
Standard acc	cessories			Mounting kit,	Clean filter ( Aller	-	1, Photocatalytic washable deodorizing filter >			
						Interface kit (	SC-BIKN2-E)			
Option parts	1) The data are measure	d at the following	1 conditions			The	no longth is 5m			
	., data are measure		·	0		The pi	pe length is 5m.			
		Indoor air tem	·		temperature	Stand	lards			
Notes (1	Item			DD	WB					
Notes (1	Operation	DB	WB	DB						
ſ	Operation Cooling	DB 27°C	WB 19°C	35°C	24°C	ISO518				
Notes (1	Operation	DB 27°C 20°C		35℃ 7℃	6°C	ISO515	51-H1			
Notes (1	Operation Cooling	DB 27°C	19°C	35°C			51-H1			

Item				Model	Inda	or unit SRK2	SRK202	Outdoor unit SRC20ZS-WA			
					Indo						
Power source	1			1.14/		11		/, 50Hz / 220V, 60Hz			
	Nominal cooling capa			kW			2.0 ( 0.9 (Min.				
	Nominal heating capa	city (range)		kW			2.7 ( 0.9 (Min.	.) - 4.3 (Max.))			
	Heating capacity (H2)			kW			-	-			
		Coo	oling				0.44 ( 0.1	9 - 0.80 )			
	Power consumption	Hea	ating	kW			0.59 ( 0.2	20 - 1.40 )			
		Hea	ating (H2)				-	-			
	Max power consumpt	ion					1.	65			
		Coc	oling				2.6/2.5/2.4 (	220/ 230/ 240V)			
	Running current		ating	А			(	220/ 230/ 240V)			
Operation	Inrush current, max cu					3.2	,				
data	minusir current, max co	Coo	ling			3.2 / 3.0 / 2.9 (220/ 230/ 240V) Max. 9					
autu	Power factor		ating	%		<u> </u>					
	EER		oling					55			
	COP		ating					58			
			ating (H2)				-	-			
	Sound power level	Coo	oling			48		56			
		ating			50		56				
	Cound arrest in 1	Coo	oling	dB(A)	Hi: 34 I	Me: 25 Lo: 2	2 ULo: 19	45			
	Sound pressure level	Hea	ating		Hi: 36 I	Me: 29 Lo: 2	3 ULo: 19	45			
	Silent mode sound pre	ssure level				_		Cooling:42 / Heating:43			
xterior dim	ensions (Height x Width			mm		290 x 870 x 2	30	540 x 780(+62) x 290			
Exterior app							0.63),(7048)	Stucco white			
	color : Munsell, RAL)					.0PB 2.44/0.2		(4.2Y 7.5/1.1), (7044)			
Vet weight	/			kg		9.5	, , , ,	31.5			
	type & Quantity							RM-C5077SBE71(Rotary type) x 1			
	motor (Starting method	<u></u>		kW				0.75 (Inverter driven )			
		1				-					
~	pil (Amount, type)			L				0.30 ( DIAMOND FREEZE MB75 )			
	Type, amount, pre-charg	je length)		kg				he amount for the piping of 15m )			
Heat exchar	*				Louver fir	ns & inner gro	•	M fins & inner grooved tubing			
Refrigerant of	control							tronic expansion valve			
an type & C	Quantity				٦	langential fan	x 1	Propeller fan x 1			
an motor (	Starting method)			W	4	2 x1 (Direct d	rive)	24 x1 (Direct drive)			
A ! 61		Coo	oling		Hi: 9.3 N	/le: 7.0 Lo: 5	.9 ULo: 5.0	27.4			
Air flow		Hea	ating	m³/min	Hi: 10.0	Me: 8.5 Lo: 6	6.5 ULo: 5.9	23.6			
Available ex	ternal static pressure			Ра		0		0			
Outside air i	· · · ·					Not possible	2				
	ality / Quantity				Polypror	oylene net (Wa					
	ration absorber						,	Rubber sleeve (for fan motor & compress			
					пирре	er sleeve (for fa	an motor)				
Electric heat	-					_		Defrost heater 230V 110W			
Operation	Remote control							note control			
control	Room temperature co	ntrol					Microcomput				
	Operation display						RUN: Green,	TIMER: Yellow			
					Compressor overheat protection, Overcurrent protection,						
Safety equip	oments					ection, Indoor fan motor error protection,					
	1				Heating o			ure control ), Cooling overload protection			
	Refrigerant piping size	(O.D)		mm	Liquid line: φ6.35 (1/4")			Gas line: φ 9.52 (3/8")			
	Connecting method					Flare connect		Flare connection			
- 11 - 1 <sup>1</sup>	Attached length of pip	ing		m	Liquid lir	ne : 0.54 / Gas	s line : 0.47				
nstallation data	Insulation for piping					N	ecessary ( Both s	ides ), independent			
μαια	Refrigerant line (one v	vay) length		m				x.20			
	Vertical height diff. bet		11.U.	m	М	ax.10 ( Outdo	or unit is higher )	/ Max.10 ( Outdoor unit is lower )			
	Drain hose					connectable	• /	Hole size $\phi 20 \times 2$ pcs., Hole size $\phi 16 \times 9$			
Drain nump	max lift height			mm		_	~ ~ /	-			
	ded breaker size			A		-	4	6			
							3.2 / 3.0 / 2.9 (2				
	ed rotor ampere)	· Containe !		A	4 -	2					
nterconnec	ung wires   Size	x Core number			1.5mm		cluding earth cab	ble) / Terminal block (Screw fixing type)			
P number						IPX0		IPX4			
Standard ac	cessories				Mounting kit,			I, Photocatalytic washable deodorizing filter x			
						Juidoor		ain grommet and Drain elbow			
Option parts	3						Interface kit (	SC-BIKN2-E)			
Notes (	1) The data are measur	ed at the follow	wing con	ditions.			The ni	pe length is 5m.			
					Outdoor a	tomporation					
r	Item	Indoor air	· · ·		Outdoor air	· ·	- Stand	ards			
	Operation	DB	W		DB	WB					
			19°	CI	35°C						
	Cooling	27°C	- 13	-							
		20°C	-		7°C	6°C	ISO515	51-H1			
	Cooling		-	-			ISO515				

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

				Model				SRK25	ZS-WT		
Item					Indo	or unit <b>SRF</b>			Outdoor unit SRC25ZS-WA2		
Power sourc							1 Pha		/, 50Hz / 220V	, 60Hz	
	Nominal cooling capac	ity (range)		kW				2.5 ( 0.9 (Min	, , ,,		
	Nominal heating capac	vity (range)		kW				3.2 ( 0.9 (Min	.) - 4.5 (Max.))		
	Heating capacity (H2)			kW							
		Coo	oling					0.62 ( 0.1	9 - 0.90)		
	Power consumption	Hea	ting	kW				0.74 ( 0.2	20 - 1.42)		
			ting (H2)						_		
	Max power consumpti	on						1.	65		
	Running current	Coo	oling						220/ 230/ 240	,	
		Hea	ting	А			3.	7/3.6/3.4 (	220/ 230/ 240	V)	
Operation	Inrush current, max cu	rrent					3.7/3	230/240V) I	Max. 9		
data	Power factor	Coo	oling	%				8	6		
	T Ower lactor	Hea	ting	70				g	0		
	EER	Coo	oling					4.	03		
	COP	Hea	ting					4.	32		
	COP	Hea	ting (H2)					-	_		
		Coo	oling			50				56	
	Sound power level	Hea	ting			53				58	
		Coo	oling	dB(A)	Hi: 36	Me: 28 Lc	o: 23	ULo: 19		46	
	Sound pressure level	Hea	ting		Hi: 39	Me: 30 Lc	o: 24	ULo: 19		46	
	Silent mode sound pre	ssure level				_			Co	oling:42 / Heating:43	
Exterior dime	ensions (Height x Width	x Depth)		mm		290 x 870	x 230		5	40 x 780(+62) x 290	
Exterior app	earance				Titanium gray	y (1.6Y 6	.59/0.6	63),(7048)		Stucco white	
(Equivalent c	color : Munsell, RAL)				Black (4.	OPB 2.44/	(0.25)	,(9011)	( 4.	2Y 7.5/1.1),(7044)	
Net weight				kg		9.5				31.0	
Compressor	type & Quantity					_			RM-C5	i077SBE71(Rotary type)	
Compressor	motor (Starting method)	kW	_				0.	75 (Inverter driven)			
Refrigerant c	oil (Amount, type)		L	-				0.30 ( D	IAMOND FREEZE MB75 )		
Refrigerant (	Type, amount, pre-charg	e length)		kg	R	32 0.62 in	outdo	or unit (Incl. th	ne amount for	the piping of 15m )	
Heat exchan	iger				Louver fir	ns & inner	groove	d tubing	M fins	& inner grooved tubing	
Refrigerant o	control					C	apillary	/ tubes + Elec	tronic expansion valve		
Fan type & C	Quantity				1	Fangential 1	fan x 1		Propeller fan x 1		
	Starting method)			W	4	2 x1 (Direc	t drive	)	24 x1 (Direct drive)		
	<b>3 1 1</b>	Coo	olina			/le: 8.0 Lc		,		27.4	
Air flow		Heat	<u> </u>	m³/min		Me: 8.7 L				23.6	
Available ext	ternal static pressure			Pa		0				0	
Outside air ir						Not poss	sible			_	
	ality / Quantity				Polypror	oylene net		able) x 2			
	ration absorber				Rubber sleeve (for fan motor)				Rubber slee	ve (for fan motor & compressor	
Electric heat	0				_					ost heater 230V 110W	
	Remote control				Wireless remote cor						
Operation	Room temperature cor	atrol			Microcomputer thermostat						
control	Operation display				RUN: Green, TIMER: Yellow					M	
					Compressor overheat protection, Overcurrent protection						
Safety equip	oments				Frost pro				ection, Overcurrent protection		
outory oquip										Cooling overload protection	
	Refrigerant piping size	(O.D)		mm		Liqui	d line:	φ6.35 (1/4")	Gas line: $\phi$ 9.52 (3/8")		
	Connecting method					Flare conn		. ,		Flare connection	
	Attached length of pipi	ing		m		ne: 0.54 / 0		e:0.47		_	
Installation	Insulation for piping					. ,			ides ), indepe	ndent	
data	Refrigerant line (one w	(ay) length		m					x.20		
	Vertical height diff. bet	., .	I/U	m	М	ax.10 ( Out	tdoor			tdoor unit is lower )	
	Drain hose					connectal		<u> </u>	`````	x 2 pcs., Hole size $\phi$ 16 x 9 p	
Drain pump	max lift height			mm		_		- ,	~		
	led breaker size			A				1	6		
	ed rotor ampere)			A			3		220/ 230/ 240	V)	
Interconnect		x Core number			1 5mm	$^2$ x 4 cores				block (Screw fixing type)	
IP number					1.500	IPX0		ang cartir odi		IPX4	
Standard ac	cessories				Mounting kit			n clear filter v	Photocataluti	c washable deodorizing filter x 1	
Option parts						orean niller (			SC-BIKN2-E)		
					l			menace kil (	JO-DINNZ-E		
Notes (	1) The data are measure	ed at the follow	wing con	ditions.				The pi	pe length is 5m.		
	Item	Indoor air t	temperati	ure	Outdoor air	temperatu	re	<b>C</b> :	la vala		
ſ	Operation	DB	W		DB	WB		Stanc	ards		
		19°		35°C	24°C		ISO51	51-T1			
-		ő						.5551			
-	Cooling			.	7°C	െറ	I	ISO514	51-H1		
-	Cooling Heating	20°C			7°C 2°C	6°C 1°C	-+	ISO51			
	Cooling Heating Heating (H2)	20°C 20°C	-	-	2°C	1°C		ISO515 ISO515			
	Cooling Heating Heating (H2) 2) This air-conditioner is	20°C 20°C s manufacture		- sted in c	2°C onformity with	1°C the ISO.		ISO51	51-H2	r due to ambient condition:	

			Mod	el		SRK35	SRK35ZS-WT					
Item				Indo	Indoor unit SRK35ZS-WT Outdoor unit SRC35ZS-							
Power source					1 Ph	,	, 50Hz / 220V, 60Hz					
	Nominal cooling capaci	ity (range)	kW			3.5 ( 0.9 (Min.	) - 4.0 (Max.))					
	Nominal heating capacit	ity (range)	kW			4.0 ( 0.9 (Min.	) - 5.0 (Max.))					
	Heating capacity (H2)		kW									
		Cool	ing			0.89 ( 0.1	7 - 1.24 )					
	Power consumption	Heat	ing kW			0.94 ( 0.1	9 - 1.45)					
		Heat	ing (H2)			-	-					
	Max power consumption	on				1.6	35					
	D	Cool	ing			4.4 / 4.2 / 4.0 (2	220/ 230/ 240V)					
	Running current	Heat	ing A			4.6 / 4.4 / 4.2 (2	220/ 230/ 240V)					
Operation	Inrush current, max cur	rent			4.6	/ 4.4 / 4.2 (220/	230/ 240 V) Max. 9					
data		Cool	ing			. 9	,					
	Power factor	Heat	ing %			9	3					
	EER	Cool	ina			3.9						
		Heat	<u> </u>		-	4.2						
	COP		ing (H2)									
		Cool			54		61	1				
	Sound power level	Heat	-		56		61					
			<u> </u>		Me: 30 Lo: 26	2 III or 10	50					
	Sound pressure level	Cool	`	,			48					
	Cilopt mode second area	Heat	ii ig	FII: 41	Me: 36 Lo: 25	010.19		-				
Sytopics -U.	Silent mode sound pres				-	20	Cooling:45 /					
	ensions (Height x Width x	Depth)	mm		290 x 870 x 23	-	540 x 780(+	,				
Exterior appe					y (1.6Y 6.59/0 .0PB 2.44/0.25		Stucco					
	olor : Munsell, RAL)		1	васк (4	.0PB 2.44/0.25 9.5	,,( <del>3</del> 011)	( 4.2Y 7.5/1. 34					
Net weight			kg				-	-				
	type & Quantity				_		RM-B5077SBE2(	,				
	motor (Starting method)		kW		—		0.90 ( Invert	,				
•	il (Amount, type)		L				0.30 ( DIAMOND					
• ·	Type, amount, pre-charge	e length)	kg				ne amount for the piping of 15m )					
Heat exchang				Louver fi	ns & inner groo		M fins & inner g	rooved tubing				
Refrigerant c	ontrol				Capilla	ary tubes + Elect	tronic expansion valve					
Fan type & Q	)uantity			-	Tangential fan x	(1	Propeller	fan x 1				
Fan motor (S	starting method)		W	4	12 x1 (Direct driv	ve)	24 x1 (Dire	ect drive)				
A		Cool	ing	. Hi: 11.3	Me: 8.7 Lo: 7.0	0 ULo: 5.0	31.	.5				
Air flow		Heat	ing m³/m	IN Hi: 12.3 I	Me: 11.0 Lo: 7	'.0 ULo: 5.6	27.	.8				
Available ext	ernal static pressure		Pa		0		0					
Outside air in	ntake				Not possible		-					
	lity / Quantity			Polypro	pylene net (Was		-					
	ation absorber				er sleeve (for far	,	Rubber sleeve (for fan	motor & compress				
Electric heate					_		Defrost heater	· · ·				
	Remote control					Wireless ren						
Operation	Room temperature con	trol				er thermostat						
control	Operation display					·						
					RUN: Green , TIMER: Yellow Compressor overheat protection, Overcurrent pro							
Safety equip	ments			Frost pro	Frost protection, Serial signal error protection, Indoor fan motor error protecti							
outory oquip:							ure control ), Cooling ov					
	Refrigerant piping size	(O.D)	mm			ne: φ6.35 (1/4")	Gas line: φ 9.52 (3/8					
	Connecting method				Flare connectio		Flare connection					
	Attached length of pipir	าต	m		ne : 0.54 / Gas		-					
nstallation	Insulation for piping	5					ides ), independent					
data	Refrigerant line (one wa	av) length	m		1100	Max						
	Vertical height diff. bety			N/	lax 10 ( Outdoo		/ Max.10 ( Outdoor unit	is lower)				
	Drain hose		,		e connectable (		Hole size $\phi$ 20 x 2 pcs.,	,				
Drain numn	max lift height		mm									
	led breaker size			<u> </u>		1						
	ed rotor ampere)		A A			4.6 / 4.4 / 4.2 (2						
		Coro purcha	A	4 5				row fiving to a				
nterconnecti	ing wires Size x	Core number		1.5mm		lucing earth cab	le) / Terminal block (Scr	<b>e 1</b> . 7				
P number				Maximal 11	IPX0	man al Ru 1	IPX Dhataaatalutia waahahla					
Standard acc				Mounting kit,	Ciean filter ( Aller	-	, Photocatalytic washable	aeodorizing filter x				
Option parts						Interface kit (	SC-BIKN2-E)					
Notes (1	1) The data are measure	ed at the follow	ing condition	s.		The pir	oe length is 5m.					
, L	Item		emperature		temperature							
	Operation	DB	WB	DB	WB	- Stand	ards					
-						100547	1 T1					
F	Cooling	27°C	19°C	35°C	24°C	ISO515						
	Heating	20°C	_	7°C	6°C	ISO515						
L	Heating (H2)	20°C	_	2°C	1°C	ISO515	1-H2					
10	2) This air-conditioner is	manufacture	and tested in	n conformity with	h the ISO							
(2												

#### (2) Floor standing type (SRF)

Item				Model	Indoor u SRF25ZS		Outdoor unit SRC25ZS-WA2
Power source	20						/, 50Hz / 220V, 60Hz
-ower sourc		poity (rango)		kW		2.5 ( 0.9 (Min.	
	Nominal cooling cap						
	Nominal heating cap	,, ,,		kW kW		2.9 ( 0.8 (Min.	.) - 3.7 (Max.))
	Heating capacity (H2	,		KVV		-	
		Cool	<u> </u>			0.59 ( 0.1	,
	Power consumption	Heat	<u> </u>	kW		0.66 ( 0.2	0 - 1.14)
		Heat	ing (H2)			-	-
	Max power consump	tion				1.	65
	Bunning ourrent	Cool	ing			3.1 / 3.0 / 2.9 (2	220/ 230/ 240 V)
	Running current	Heat	ing	А		3.4 / 3.3 / 3.1 (2	220/ 230/ 240 V)
Operation	Inrush current, max o	urrent				3.3 N	Max. 9
lata		Cool	ina			8	6
	Power factor	Heat	-	%			8
	EER	Cool					24
			•				39
	COP	Heat	-				
			ing (H2)			-	-
	Sound power level	Cool	-		50		59
		Heat	ing		51		60
	Sound processes last	Cool	ing	dB(A)	Hi: 38 Me: 32 Lo:	: 29 ULo: 25	45
	Sound pressure level	Heat	ing	-	Hi: 39 Me: 35 Lo:	: 33 ULo: 29	47
	Silent mode sound p		-		_		Cooling:41 / Heating:42
- xterior dim	ensions (Height x Widtl			mm	600 × 860 ×	× 238	540 × 780(+62) × 290
Exterior app					Fine snc		Stucco white
Equivalent of					Munsell: ( 8.0Y 9.3/0		(4.2Y 7.5/1.1), (7044)
Vet weight				kg	18	. , IAL. 3003	(4.217.3/1.1), (7044) 31.0
				ку			
	r type & Quantity				_		RM-C5077SBE71(Rotary type) × 1
Compressor	r motor (Starting metho	d)		kW	-		0.75 (Inverter driven)
Refrigerant o	oil (Amount, type)			L	-		0.30 ( DIAMOND FREEZE MB75 )
Refrigerant (	(Type, amount, pre-cha	rge length)		kg	R32 0.62 in	outdoor unit (Incl. th	he amount for the piping of 10m )
leat exchar	naer			-	Louver fins & inner g	rooved tubing	M fins & inner grooved tubing
Refrigerant of							tronic expansion valve
an type & C					Turbo fan		Propeller fan × 1
				W			
-an motor (a	Starting method)			VV	40 ×1 (Direct	,	24 ×1 (Direct drive)
Air flow		Cool	-	m³/min	Hi: 9.0 Me: 7.6 Lo:		27.4
		Heat	ing	,	Hi: 10.5 Me: 8.2 Lo	: 7.7 ULo: 6.6	27.4
Available ext	ternal static pressure			Pa	0		0
Outside air i	ntake				Not poss	ible	-
Air filter, Qua	ality / Quantity				Polypropylene net ()	Nashable ) × 2	_
	ration absorber				Rubber sleeve ( fo	,	Rubber sleeve ( for fan motor & compresso
Electric heat							Defrost heater 230V 110W
	Remote control						note control
Operation							
control	Room temperature c	ontrol				Microcomput	
	Operation display						R: Yellow, ECO: Blue
							tion, Overcurrent protection,
Safety equip	oments						ection, Indoor fan motor error protection,
					Heating overload pro	otection( High press	ure control ), Cooling overload protection
	Refrigerant piping siz	e (O.D.)		mm	Liquid	d line: φ6.35 (1/4")	Gas line: \$\$\phi\$ 9.52 (3/8")
	Connecting method				Flare conne	ection	Flare connection
	Attached length of pi	ping		m	_		_
						Necessary ( Roth s	ides ), independent
	Insulation for piping						<.20
	Insulation for piping	way) length	Î				N.20
	Refrigerant line (one	,, 0		m	Mai to / O 1		(Max 10 (Outdoor unit in Issue))
nstallation data	Refrigerant line (one Vertical height diff. be	,, 0	I/U	m	· · ·	door unit is higher)	/ Max.10 ( Outdoor unit is lower )
data	Refrigerant line (one Vertical height diff. be Drain hose	,, 0	I/U	m	Hose connectab	door unit is higher)	, ,
data Drain pump,	Refrigerant line (one Vertical height diff. be Drain hose , max lift height	,, 0	I/U		· · ·	door unit is higher ) le ( VP16 )	Hole size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16 x 9 p —
Jata Drain pump,	Refrigerant line (one Vertical height diff. be Drain hose	,, 0	I/U	m	Hose connectab	door unit is higher ) le ( VP16 )	, , ,
data Drain pump, Recommenc	Refrigerant line (one Vertical height diff. be Drain hose , max lift height	,, 0	I/U	m mm	Hose connectab	door unit is higher ) le (VP16) 1	Hole size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16 x 9 p —
lata Drain pump, Recommend R.A. (Lock	Refrigerant line (one Vertical height diff. b Drain hose , max lift height ded breaker size ted rotor ampere)	,, 0	I/U	m mm A	Hose connectab	door unit is higher) le (VP16) 1 3	Hole size φ 20 x 2 pcs., Hole size φ 16 x 9 p 6
Jata Drain pump, Recommenc R.A. (Lock nterconnect	Refrigerant line (one Vertical height diff. b Drain hose , max lift height ded breaker size ted rotor ampere)	etween O/U and	I/U	m mm A	Hose connectab	door unit is higher) le (VP16) 1 3	Hole size φ 20 x 2 pcs., Hole size φ 16 x 9 p 6 .6
Jata Drain pump, Recommenc R.A. (Lock nterconnect P number	Refrigerant line (one Vertical height diff. b Drain hose , max lift height ded breaker size ted rotor ampere) ting wires	etween O/U and	I/U	m mm A	Hose connectab — 1.5mm <sup>2</sup> × 4 cores IPX0	door unit is higher ) le (VP16) 1 3 (Including earth cab	Hole size φ 20 x 2 pcs., Hole size φ 16 x 9 p – 6 .6 .6 .le) / Terminal block (Screw fixing type) IPX4
lata Drain pump, Recommenc R.A. (Lock nterconnect P number Standard ac	Refrigerant line (one Vertical height diff. b Drain hose , max lift height ded breaker size ted rotor ampere) ting wires Size	etween O/U and	I/U	m mm A	Hose connectab — 1.5mm <sup>2</sup> × 4 cores IPX0	door unit is higher ) le (VP16) 1 3 (Including earth cab	Hole size φ 20 x 2 pcs., Hole size φ 16 x 9 p – 6 .6 .6 .6 .1e) / Terminal block (Screw fixing type) IPX4 , Photocatalytic washable deodorizing filter x
Jata Drain pump, Recommenc R.A. (Lock nterconnect P number Standard ac Dption parts	Refrigerant line (one Vertical height diff. bu Drain hose , max lift height ded breaker size ted rotor ampere) ting wires Size scessories	etween O/U and		m mm A A	Hose connectab — 1.5mm <sup>2</sup> × 4 cores IPX0	door unit is higher ) le (VP16) 1 3 (Including earth cab	Hole size φ 20 x 2 pcs., Hole size φ 16 x 9 p – 6 .6 .6 .6 .1e) / Terminal block (Screw fixing type) IPX4 , Photocatalytic washable deodorizing filter x
Drain pump, Recommend R.A. (Lock nterconnect P number Standard ac Option parts	Refrigerant line (one Vertical height diff. b Drain hose , max lift height ded breaker size ted rotor ampere) ting wires Size	etween O/U and		m mm A A	Hose connectab — 1.5mm <sup>2</sup> × 4 cores IPX0	door unit is higher ) le (VP16) 1 (Including earth cab Allergen clear filter × 1 Interface kit (	Hole size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16 x 9 p – 6 .6 .6 .1e) / Terminal block (Screw fixing type) IPX4 , Photocatalytic washable deodorizing filter x
Jata Drain pump, Recommenc R.A. (Lock nterconnect P number Standard ac Dption parts	Refrigerant line (one Vertical height diff. bu Drain hose , max lift height ded breaker size ted rotor ampere) ting wires Size sccessories s The data are measure	e x Core number	g condition	m mm A A ons.	Hose connectab – 1.5mm <sup>2</sup> × 4 cores IPX0 Mounting kit, Clean filter ( /	door unit is higher ) le (VP16) 1 3 (Including earth cab Allergen clear filter × 1 Interface kit ( The pipe le	Hole size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16 x 9 p – 6 6 .6 .1e) / Terminal block (Screw fixing type) IPX4 , Photocatalytic washable deodorizing filter x SC-BIKN2-E ) angth is 5m.
Drain pump, Recommenc R.A. (Lock nterconnect P number Standard ac Option parts Notes (1)	Refrigerant line (one Vertical height diff. bu Drain hose , max lift height ded breaker size sed rotor ampere) ting wires Size sccessories s The data are measure Item L	etween O/U and e x Core number d at the followin Indoor air tem	g condition perature	m mm A A ons.	Hose connectab – 1.5mm <sup>2</sup> × 4 cores IPX0 Mounting kit, Clean filter ( / utdoor air temperature	door unit is higher ) le (VP16) 1 (Including earth cab Allergen clear filter × 1 Interface kit (	Hole size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16 x 9 p – 6 6 .6 .1e) / Terminal block (Screw fixing type) IPX4 , Photocatalytic washable deodorizing filter x SC-BIKN2-E ) angth is 5m.
Prain pump, Recommence R.A. (Lock neterconnect number itandard ac Option parts Notes (1)	Refrigerant line (one Vertical height diff. bu Drain hose , max lift height ded breaker size ted rotor ampere) ting wires Size ccessories s The data are measure ltem peration	etween O/U and e x Core number d at the followin Indoor air tem DB	g condition perature WB	m mm A A ons.	Hose connectab 	door unit is higher ) le (VP16) 1 3 (Including earth cab Allergen clear filter × 1 Interface kit ( The pipe le Standards	Hole size φ 20 x 2 pcs., Hole size φ 16 x 9 p – 6 .6 .6 .6 .6 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7
Drain pump, Recommenc R.A. (Lock nterconnect P number Standard ac Dption parts Notes (1)	Refrigerant line (one Vertical height diff. bu Drain hose , max lift height ded breaker size sed rotor ampere) ting wires Size sccessories s The data are measure peration tem Cooling	d at the followin Indoor air tem DB 27°C	g condition perature WB 19°C	m mm A A ons.	Hose connectab 	door unit is higher ) le (VP16) 1 3 (Including earth cab Allergen clear filter × 1 Interface kit ( The pipe le Standards ISO5151-T	Hole size φ 20 x 2 pcs., Hole size φ 16 x 9 p – 6 .6 .6 .6 .1e) / Terminal block (Screw fixing type) IPX4 , Photocatalytic washable deodorizing filter × SC-BIKN2-E ) ength is 5m.
Drain pump, Recommenc R.A. (Lock nterconnect P number Standard ac Dption parts Notes (1)	Refrigerant line (one Vertical height diff. bu Drain hose , max lift height ded breaker size and rotor ampere) ting wires Size sccessories The data are measure peration Item Cooling Heating	d at the followin Indoor air tem DB 27°C 20°C	g condition perature WB	m mm A A ons.	Hose connectab 	door unit is higher ) le (VP16) 1 (Including earth cab Allergen clear filter × 1 Interface kit ( The pipe le Standards ISO5151-T ISO5151-H	Hole size φ 20 x 2 pcs., Hole size φ 16 x 9 p – 6 .6 .6 .6 .1e) / Terminal block (Screw fixing type) IPX4 , Photocatalytic washable deodorizing filter x SC-BIKN2-E ) angth is 5m.
Iata Drain pump, Recommenc R.A. (Lock nterconnect P number Standard ac Option parts Notes (1)	Refrigerant line (one Vertical height diff. bu Drain hose , max lift height ded breaker size sed rotor ampere) ting wires Size sccessories s The data are measure peration tem Cooling	d at the followin Indoor air tem DB 27°C	g condition perature WB 19°C	m mm A A ons.	Hose connectab 	door unit is higher ) le (VP16) 1 3 (Including earth cab Allergen clear filter × 1 Interface kit ( The pipe le Standards ISO5151-T	Hole size φ 20 x 2 pcs., Hole size φ 16 x 9 p – 6 .6 .6 .6 .1e) / Terminal block (Screw fixing type) IPX4 , Photocatalytic washable deodorizing filter x SC-BIKN2-E ) angth is 5m.

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

lteres				Model		Indoor u			Outdoor unit
Item						SRF35ZS			SRC35ZS-WA2
Power source							1 Phase, 220 - 240\		
	Nominal cooling cap		,	kW	ļ		3.5 ( 0.9 (Min	, ,	
	Nominal heating cap		e)	kW					-))
	Heating capacity (H	2)		kW	ļ				
			Cooling					8 - 1.33)	
	Power consumption	1	Heating	kW			1.12 ( 0.1	9 - 1.53)	
			Heating (H2)				-	_	
	Max power consum	ption						65	
	Running current		Cooling				4.1 / 3.9 / 3.7 (2		,
			Heating	A			5.4 / 5.1 / 4.9 (2	220/ 230/ 24	0 V)
Operation	Inrush current, max	current					5.0 N	Max. 9	
data	Power factor		Cooling	%			9	2	
	Fower lactor		Heating	70			g	5	
	EER		Cooling				4.	27	
	COD		Heating	]			4.	02	
	COP		Heating (H2)	1			-	_	
			Cooling			51			63
	Sound power level		Heating	1		52			64
			Cooling	dB(A)	Hi:	40 Me: 35 Lo:	33 ULo: 29		50
	Sound pressure leve	el	Heating			41 Me: 36 Lo:			51
	Silent mode sound	pressure leve		1				0	Cooling:44 / Heating:43
- xterior dime	ensions (Height x Wid			mm		600 × 860 >	< 238		540 × 780(+62) × 290
Exterior appe					+	Fine sno			Stucco white
Equivalent c					Mun	sell: ( 8.0Y 9.3/0		[	4.2Y 7.5/1.1), (7044)
Vet weight				kg	.viuli	19	. ,,	(·	34.5
	type & Quantity			- ···9		-		RM_PA	5077SBE2(Rotary type) × 1
	motor (Starting meth	od)		kW					0.90 (Inverter driven)
		00)		L					DIAMOND FREEZE MB75 )
•	il (Amount, type)			-				(	,
<b>.</b> .	Type, amount, pre-cha	arge length)		kg	<u> </u>				or the piping of 15m )
Heat exchan	0				Lou	ver fins & inner g	•		ns & inner grooved tubing
Refrigerant c							pillary tubes + Elec	tronic expan	
-an type & Q				ļ		Turbo fan			Propeller fan × 1
Fan motor (S	tarting method)			W		40 ×1 (Direct	,		24 ×1 (Direct drive)
Air flow			Cooling	m³/min		.2 Me: 7.8 Lo:			31.5
			Heating		Hi: 1	0.7 Me: 8.3 Lo	: 8.1 ULo: 7.4		31.5
Available ext	ernal static pressure			Pa		0			0
Outside air ir	ntake					Not possi	ble		_
Air filter, Qua	lity / Quantity				Poly	propylene net ( \	Washable ) × 2		_
Shock & vibr	ation absorber				R	ubber sleeve ( fo	r fan motor )	Rubber slee	eve ( for fan motor & compresso
Electric heate	er					-		De	efrost heater 230V 110W
	Remote control						Wireless rer	note control	
Operation	Room temperature	control					Microcomput	er thermosta	at
control	Operation display						RUN: Green, TIMER	R: Yellow, EC	O: Blue
Safety equip	ments				Compressor overheat protection, Overcurrent protection, Frost protection, Serial signal error protection, Indoor fan motor error protection, Heating overload protection( High pressure control ), Cooling overload protection				
	Pofrigorant nining a					•			
	Refrigerant piping s			mm			d line: $\phi$ 6.35 (1/4")	Gas line:	φ 9.52 (3/8")
	Connecting method					Flare conne	CUON		Flare connection
nstallation	Attached length of p			m		_	N (5.3	<u> </u>	-
lata	Insulation for piping				Necessary (Both sides), independent				
	Refrigerant line (on	., .		m				x.20	
	Vertical height diff. b	petween O/L	I and I/U	m		(	• /	`````	Outdoor unit is lower)
	Drain hose					Hose connectab	le (VP16)	Hole size $\phi$	20 x 2 pcs., Hole size $\phi$ 16 x 9
1 1 1	max lift height			mm	ļ	-			-
Recommend	ed breaker size			A				6	
.R.A. (Locke	ed rotor ampere)			A			4	.4	
nterconnecti	ing wires Siz	ze x Core nu	mber		1.	5mm <sup>2</sup> × 4 cores	(Including earth cab	ole) / Termina	al block (Screw fixing type)
P number						IPX0			IPX4
Standard acc	cessories				Mountin	g kit, Clean filter ( /	Allergen clear filter × 1	, Photocataly	tic washable deodorizing filter ×
Option parts							Interface kit (	SC-BIKN2-E	Ξ)
Notes (1) T	The data are measure	ed at the fol	lowina condit	ions.			The nine l	ength is 5m.	
					utdoara	tomporcture	The pipe i		
	Item		r temperature	0		temperature	Standards		
Op	peration	DB	WB		DB	WB			
	Cooling	27°C	19°C		35°C	24°C	ISO5151-T		
	Heating	20°C	-		7°C	6°C	ISO5151-H		
	Heating (H2)	20°C	-		2°C	1°C	ISO5151-H	2	
(2)	This air-conditioner is	s manufacti	ired and teste	ed in cor	formity w	ith the ISO.			

#### (3) Ceiling concealed type (SRR)

Item			Model		RR25ZS-W			
Dower and	2			Indoor unit SRR25ZS-W	Outdoor unit SRC25ZS-WA2			
Power source			1.14/					
	Nominal cooling capacity (r	• /	kW	2.5 ( 0.9 (Min.) - 3.2 (Max.))				
	Nominal heating capacity (r	ange)	kW	2.9 ( 0.9 (Min.) - 4.4 (Max.))				
	Heating capacity (H2)	1.	kW		_			
		Cooling			2 ( 0.19 - 0.99 )			
	Power consumption	Heating	kW	0.65	i ( 0.19 - 1.32 )			
		Heating (I	12)		-			
	Max power consumption				1.65			
		Cooling		3.2/3.1/3	3.0 (220/ 230/ 240V)			
	Running current	Heating	A		3.1 (220/ 230/ 240V)			
	Inrush current, max current	1.100.003			(220/ 230/ 240V) Max. 9			
		Cooling		0.17 0.27 0.11	87			
<b>D</b>	Power factor		- %		88			
Operation data		Heating						
Jala	EER	Cooling	_		4.03			
	COP	Heating			4.46			
		Heating (I	12)		-			
	Sound power level	Cooling		56	58			
		Heating		59	58			
		Cooling		Hi: 37 Me: 33 Lo: 30 ULo: 24	47			
	Sound pressure level ①	Heating		Hi: 40 Me: 37 Lo: 34 ULo: 28	47			
		Cooling	dB(A)	Hi: 31 Me: 28 Lo: 26 ULo: 21	47			
	Sound pressure level 2	Heating		Hi: 33 Me: 30 Lo: 28 ULo: 23	47			
		Cooling		Hi: 39 Me: 35 Lo: 32 ULo: 25	47			
	Sound pressure level ③		_		47			
		Heating	_	Hi: 44 Me: 41 Lo: 38 ULo: 31				
	Silent mode sound pressure			-	Cooling:41 / Heating:42			
	ensions (Height x Width x De	oth)	mm	200 x 750 x 500	540 x 780(+62) x 290			
Exterior appe				_	Stucco white			
Equivalent c	olor : Munsell, RAL)				(4.2Y 7.5/1.1), (7044)			
Vet weight			kg	20.5	31.0			
Compressor '	type & Quantity			-	RM-C5077SBE71(Rotary type) x 1			
Compressor	motor (Starting method)		kW	_	0.75 (Inverter driven)			
Refrigerant o	il (Amount, type)		L	_	0.30 ( DIAMOND FREEZE MB75 )			
	Type, amount, pre-charge len	ath)	kg	B32_0.62 in outdoor unit (Ir	ncl. the amount for the piping of 15m )			
leat exchange		900	itig	Louver fins & inner grooved tubing				
	·			<u> </u>	, , , , , , , , , , , , , , , , , , , ,			
Refrigerant co					Electronic expansion valve			
an type & Q				Centrifugal fan x 2	Propeller fan x 1			
an motor (S	tarting method)		W	51 x1 (Direct drive)	24 x1 (Direct drive)			
Air flow		Cooling	— m³/min	Hi: 9.5 Me: 8.0 Lo: 6.5 ULo: 4.5	27.4			
		Heating		Hi: 10.0 Me: 9.0 Lo: 8.0 ULo: 6.0	23.6			
Available exte	ernal static pressure		Pa	35 (Initial static pressure with air filter:5	iPa) 0			
Outside air in	ntake			Not possible	_			
Air filter, Quality / Quantity			Polypropylene net x 1	_				
	, ,			Cushion rubber ( for fan motor )	Rubber sleeve ( for fan motor & compresso			
	ation absorber							
Shock & vibra					Defrect bester 220V 110W			
Shock & vibra	er			-	Defrost heater 230V 110W			
Shock & vibra Electric heate	er Remote control			— Wireles	ss remote control			
Shock & vibra Electric heate Operation	er Remote control Room temperature control				ss remote control mputer thermostat			
Shock & vibra Electric heate Operation	er Remote control			— Wireles Microco RUN: Green, TIMER: Yellov	ss remote control mputer thermostat v, HI POWER: Green, ECONO: Green			
Shock & vibra Electric heate Operation control	er Remote control Room temperature control Operation display			Wireles Microco RUN: Green, TIMER: Yellov Compressor overheat protection, C	ss remote control mputer thermostat v, HI POWER: Green, ECONO: Green Dvercurrent protection, Drain error protection			
Shock & vibra Electric heate Operation control	er Remote control Room temperature control Operation display			Wireles Microco RUN: Green, TIMER: Yellov Compressor overheat protection, C Frost protection, Serial signal error	ss remote control mputer thermostat v, HI POWER: Green, ECONO: Green Dvercurrent protection, Drain error protection protection, Indoor fan motor error protection			
Shock & vibra Electric heate Operation control	er Remote control Room temperature control Operation display ments			Wireles Microco RUN: Green, TIMER: Yellov Compressor overheat protection, Q Frost protection, Serial signal error Heating overload protection( High p	ss remote control mputer thermostat v, HI POWER: Green, ECONO: Green Dvercurrent protection, Drain error protection protection, Indoor fan motor error protection pressure control ), Cooling overload protection			
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Shock & vibra Check & vibra Clectric heate Departion Safety equipred Safety equipred	er Remote control Room temperature control Operation display ments Refrigerant piping size (O.D. Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) I Vertical height diff. betweer Drain hose max lift height ed breaker size ed rotor ampere) ing wires Size x Con cessories The data are measured at th Item Indoor air ter DB ling 27°C ting 20°C This air-conditioner is manufilter Refrigerant line (one way) I Pertical height diff. betweer Drain hose max lift height ed rotor ampere) Size x Con DB ling 27°C This air-conditioner is manufilter	ength O/U and I/U re number e following coo nperature Ou WB 19°C - - - - -	m m m A A A A A ditions. tdoor air ter DB 35°C 7°C 2°C 2°C sted in cor oic chamb	—       —         Wireless       Microcol         RUN: Green, TIMER: Yellow       Compressor overheat protection, C         Frost protection, Serial signal error       Heating overload protection (High p         Liquid line: \$\phi.35 (1)       Flare connection         —       —         Necessary (B       —         Max.10 (Outdoor unit is hig         Hose connectable (VP25)         Built-in, MAX600         —       3.7 / 3.6 / 3         1.5mm <sup>2</sup> x 4 cores (Including earth         IPX0         Mounting ki         Wired remote control, Interface         The pipe length is 5m.         (5) Mike p         of indu         Q2 <sup>4</sup> °C         ISO5151-T1         6°°C         ISO5151-H2         (3)         formity with the ISO.	ss remote control mputer thermostat v, HI POWER: Green, ECONO: Green Derecurrent protection, Drain error protection protection, Indoor fan motor error protection protection (M4") Gas line: $\phi$ 9.52 (3/8") Flare connection (/4") Gas line: $\phi$ 9.52 (3/8") Flare connection (/4") Gas line: $\phi$ 9.52 (3/8") Flare connection (/4") Gas line: $\phi$ 9.52 (3/8") Hole size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16 x 9 Hole size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16 x 9 Hole size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16 x 9 Hole size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16 x 9 Hole size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16 x 9 Hole size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16 x 9 Hole size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16 x 9 Hole size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16 x 9 Hole size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16 x 9 Hole size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16 x 9 Hole size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16 x 9 Hole size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16 x 9 Hole size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16 x 9 Hole size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16 x 9 Hole size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16 x 9 Hole size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16 x 9 Hole size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16 x 9 Hole size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16 x 9 Hole size $\phi$ 10 x 10 (Outdoor unit is lower) Hole size $\phi$ 10 x 2 pcs., H			

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Itom					Model		de en contra	00000		RR35ZS-	
Item						l In	door unit	SRR35	-	000 0.11	Outdoor unit SRC35ZS-WA2
Power sourc		ling occasity (	, ,		1.3.67					, 220 - 240	
		ling capacity (ra	• /		kW kW				,	(Min.) - 4. (Min.) - 5.	
	Heating capa	ting capacity (ra	ange)		kW				4.2 ( 1.0	(101111.) - 5.	2 (Max.))
	ricating capa	iony (inz)	Cooli	าต	r.vv				0 02	(0.19 - 1	26)
	Power consu	Imption	Heati	5	kW					(0.19 - 1	1
	T Ower consu	Imption		ng (H2)	KVV				1.01	(0.20 - 1	.43 )
	Max power of	onsumption	Ticati	ig (i iz)						1.65	
		onsumption	Coolii	na					4.5/4.3/4		230/ 240\/)
	Running curr	rent, max current Cooling Heating Cooling Cooling		А				4.9 / 4.7 / 4		,	
	Inrush curren			.9							240V) Max. 9
				าต					,	93	2.00) man o
Operation	Power factor		Heati	•	%					94	
data	EER		Coolii	-						3.76	
			Heati	•						4.16	
	COP		Heati	ng (H2)						_	
			Coolii					57			62
	Sound powe	er level	Heati	ng				60			62
			Coolii	ng		Hi: 38	Me: 34	Lo: 31	ULo: 25		50
	Sound press	ure level (1)	Heati			Hi: 42	Me: 38	Lo: 35	ULo: 29		50
	Coursel		Coolii	•	dB(A)				ULo: 22		50
	Sound press		Heati	ng		Hi: 34	Me: 32	Lo: 29	ULo: 24		50
	Sound area		Coolii	ng		Hi: 40	Me: 37	Lo: 33	ULo: 27		50
	Sound press	ure level 3	Heati	ng		Hi: 45	Me: 42	Lo: 39	ULo: 33		50
	Silent mode	sound pressure						_			Cooling:45 / Heating:43
Exterior dim	ensions (Heigh	t x Width x Dep	th)		mm		200 x 7	750 x 50	0		540 x 780(+62) x 290
Exterior app								_			Stucco white
	color : Munsell,	RAL)									(4.2Y 7.5/1.1), (7044)
Net weight					kg		2	20.5			34.5
	r type & Quanti							_			RM-B5077SBE2(Rotary type) x 1
	r motor (Startin	e ,			kW			-			0.90 (Inverter driven)
	oil (Amount, typ				L			-			0.30 ( DIAMOND FREEZE MB75 )
Refrigerant (	Type, amount,	pre-charge leng	gth)		kg					cl. the am	ount for the piping of 15m )
Heat exchan	•					Louver	r fins & inr	-	ved tubing		M fins & inner grooved tubing
Refrigerant o	control									Electronic	expansion valve
Fan type & C							Centrifu	<u> </u>			Propeller fan x 1
Fan motor (S	Starting method	(k			W		51 x1 (D		,		24 x1 (Direct drive)
Air flow Cooling		ng	m³/min				0 ULo: 5.0		31.5		
Heating		ng		-			5 ULo: 6.5		27.8		
Available ext	ternal static pre	essure			Pa	35 (Initial s			h air filter:5	Pa)	0
Outside air i								ossible			_
	ality / Quantity						Polypropy	·			
	ration absorber	•				Cush	ion rubbe	r ( for fa	n motor )	Rub	ober sleeve ( for fan motor & compressor
Electric heat	ter							-			Defrost heater 230V 110W
Operation	Remote cont									s remote	
control		rature control					Microcomputer thermostat RUN: Green, TIMER: Yellow, HI POWER: Green, ECONO: Green				
	Operation dis	splay								-	
Cofoty constraints	monto										t protection, Drain error protection
Safety equip	ments										n, Indoor fan motor error protection ontrol ), Cooling overload protection
	Refrigerant p	Refrigerant piping size (O.D.)			mm	rieauli			e: φ6.35 (1		as line: $\phi$ 9.52 (3/8")
	Connecting r		/					onnectio	1 (	, a	Flare connection
	Attached len				m		1 1010 00	_			-
Installation	Insulation for	• • •						Ner	cessarv ( Re	oth sides	, independent
data		ine (one way) le	ngth		m					Max.20	e e la companya de la
		nt diff. between		U	m		Max.10 (	Outdoor	r unit is hial		x.10 ( Outdoor unit is lower )
	Drain hose					Ho	se conne				size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16 x 9 pc
Drain pump	, max lift height	:			mm			, MAX60	,		
	ded breaker siz				A					16	
	ed rotor amper				A				4.6/4.4/4	-	230/ 240V)
Interconnect		Size x Core	e number			1.5m	$m^2 x 4 co$				Ferminal block (Screw fixing type)
IP number								PX0			IPX4
Standard ac	cessories							-	Mounting kit	t, Joint for	
Option parts						v N	/ired remo			-	BIKN2-E ), Bottom air inlet kit
		neasured at the	e following	conditi	ions.		ipe length is				of measureing sound pressure level
		Indoor air tem				mperature					shown below.
Operation	n ltem	DB	WB	DE		WB	Standard	ls	1		
· · ·		27°C	19°C	35°			ISO5151-				init - Air- Unit
	oling	27°C	190	35			ISO5151- ISO5151-				1.5m Return duct 1.5m Supply duct
пеа	ating	20°C	_	2°0					~	1	
1.1	ating (H2)						ISO5151-		3	-lm	External stat
	The last sectors and sectors a	ionor ie monuf	actured an	a teste	a in con	normity with	the ISO.		Air	-	
(2) (3) \$		dicates the val higher due to	ue in an ar	nechoic	chamb	er. During op	peration t	hese va	lues R	eturn duct	Supply duct for (2), (3)
(2) (3) \$	Sound level in are somewhat	dicates the val	ue in an ar ambient c	nechoic onditior	chambo ns.		peration t	hese va	lues <sub>R</sub>		

#### (4) 4-way ceiling cassette type (FDTC)

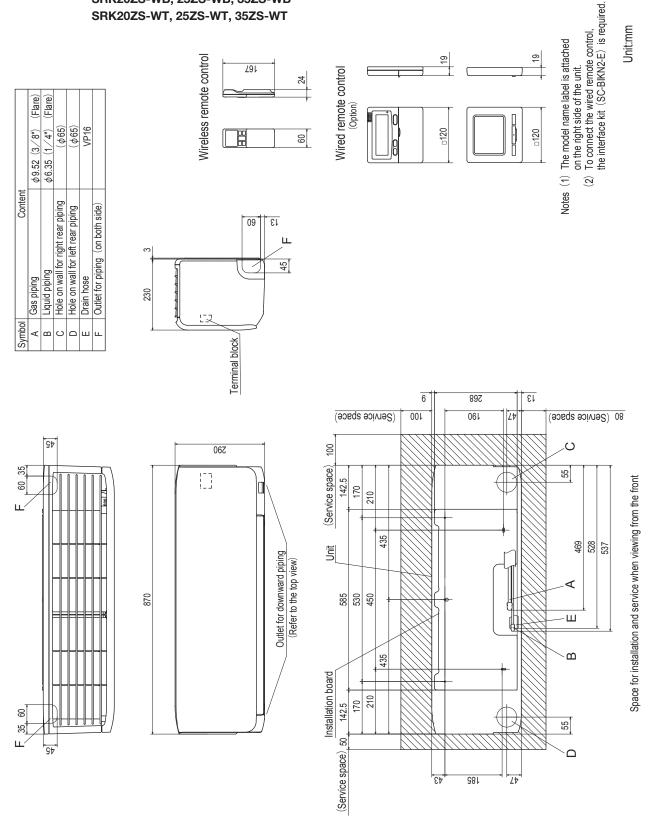
Item				Model	المحاد		25VH1		
Power sourc					Indoor unit	FDTC25VH1	Outdoor unit SRC25ZS-WA2		
	1	ing capacity (ran	ne)	kW		, .	.) - 3.2 (Max.))		
		ing capacity (ran	<u>,</u>	kW			.) - 4.0 (Max.))		
	Heating capa	<u> </u>	90)	kW		2.5 ( 0.5 (1411)			
	Theating capa		Cooling	I.V.V		0.61(0.1	18 - 0.98 )		
	Power consu	mption	Heating	kW			19 - 1.31 )		
		nption	Heating (H2)	- +			_		
	Max power co	onsumption	[ 1.10ddinig (i.12)			1.	65		
			Cooling				220/ 230/ 240 V)		
	Running curre	ent	Heating	A		1	220/ 230/ 240 V)		
Operation	Inrush curren	t, max current		1 1		,	(230/240V) Max. 9		
data		,	Cooling			,	36		
	Power factor		Heating	- %		g	90		
	EER		Cooling			4.	10		
	000		Heating	1 İ		4.	08		
	COP		Heating (H2)	i i		-	_		
	0	. Las sal	Cooling			51	58		
	Sound power	level	Heating	1		52	59		
			Cooling	dB(A)	P-Hi: 38 Hi: 3	4 Me: 30 Lo: 27	47		
	Sound pressu	ire ievei	Heating	1 1	P-Hi: 39 Hi: 3	6 Me: 32 Lo: 28	47		
	Silent mode s	ound pressure le	evel	ן ך		_	Cooling:41 / Heating:42		
- - - - - - - - - - - - - - - - - - -	ensions (Haight	x Width x Depth	)	mm		x 570 x 570	540 x 780(+62) x 290		
		x width x Depti	1)	11111	Panel 10	x 620 x 620	540 x 780(+62) x 290		
Exterior app						snow	Stucco white		
	olor : Munsell,	RAL)				) near equivalent	(4.2Y 7.5/1.1), (7044)		
Net weight				kg	Unit 13.5	Panel 2.5	31.0		
	type & Quantity					_	RM-C5077SBE71(Rotary type) x 1		
	motor (Starting	·,		kW		-	0.75 (Inverter driven)		
	oil (Amount, typ			L		_	0.30 (DIAMOND FREEZE MB75)		
		ore-charge lengt	n)	kg		,	ne amount for the piping of 15m)		
Heat exchan	0				Louver fins & inr	ner grooved tubing	M fins & inner grooved tubing		
Refrigerant o					-		tronic expansion valve		
Fan type & Quantity Fan motor (Starting method)					tial fan x 1	Propeller fan x 1			
-an motor (S	starting method	)		W	,	t line start)	24 x1 (Direct drive)		
Air flow			Cooling	m³/min		5 Me: 7.0 Lo: 6.0	27.4 27.4		
Augilable au	anal static and		Heating	Pa	P-HI: 9.5 HI: 8.	5 Me: 7.5 Lo: 6.5 0	0		
Outside air in	ernal static pre	ssure		га	Po	ssible	-		
	lity / Quantity					net x 1 (Washable)			
-	ration absorber					e (for fan motor)	Rubber sleeve (for fan motor & compresso		
Electric heat					Tubber Sieev		Defrost heater 230V 110W		
	Remote contr	rol			(Option) Wir	ed: BC-EX3A BC-E5 E	RCH-E3 Wireless: RCN-TC-5AW-E3		
Operation	Room temper						by electronics		
control	Operation dis					Thermostat i	-		
		piay			Corr	pressor overheat prote	ction, Overcurrent protection		
Safety equip	ments						ection, Indoor fan motor error protection		
							ure control ), Cooling overload protection		
	Refrigerant pi	ping size (O.D.)		mm	L	iquid line: φ6.35 (1/4")	Gas line: φ 9.52 (3/8")		
	Connecting m	nethod			Flare co	onnection	Flare connection		
	Attached leng	th of piping		m		_	-		
nstallation lata	Insulation for	piping			Necessary ( Both sides ), independent				
lala	Refrigerant li	ne (one way) len	gth	m		Ma	x.20		
	Vertical heigh	t diff. between C	/U and I/U	m	Max.10 (	Outdoor unit is higher)	/ Max.10 ( Outdoor unit is lower )		
	Drain hose				Hose connectable	with VP25 ( O.D.32 )	Hole size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16 x 9 p		
Drain pump,	max lift height			mm	Built-in dra	in pump, 850	-		
Recommenc	led breaker size	)		Α		1	6		
.R.A. (Lock	ed rotor ampere	e)		А		3.7 / 3.6 / 3.4 (	220/ 230/ 240V)		
nterconnect	ing wires	Size x Core	number		1.5mm <sup>2</sup> x 4 co	ores (Including earth cab	ole) / Terminal block (Screw fixing type)		
P number						PX0	IPX4		
Standard ac	cessories					Mounting ki	t, Drain hose		
Option parts					OA space	r : TC-OAS-E2, TC-OAE	D-E, Motion sensor : LB-TC-5W-E		
Notes (1)	The data are m	easured at the	following cond	tions.		The pipe length is	: 5m.		
$\sim$	Item	Indoor air tei			r air temperature				
Operation		DB	WB	DB	WB	Standards			
	oling	27°C	19°C	35°C	24°C	ISO5151-T1			
	ating	20°C	-		6°C	ISO5151-H1			
	ating (H2)	20°C		2°C	1°C	ISO5151-H1			
			turad and to -t			1000101-112	]		
(0) -	uus air-conditi	uner is manutad	sured and test	eu in cont	ormity with the ISO.				
. ,				o ohomb -	r During operation	hose values are care	what higher due to ambient conditions.		

				Model		FDTC	35VH1
Item					Indoor un	it FDTC35VH1	Outdoor unit SRC35ZS-WA2
Power source	е					1 Phase, 220	- 240V, 50Hz
	Nominal coc	ling capacity (ran	ge)	kW		3.5 ( 0.9 (Min.	) - 4.3 (Max.))
	Nominal hea	ting capacity (rar	ige)	kW		4.25 ( 0.9 (Min	.) - 4.6 (Max.))
	Heating cap	acity (H2)		kW		-	-
			Cooling			0.91 ( 0.1	8 - 1.37 )
	Power const	umption	Heating	kW		1.15 ( 0.1	9 - 1.33 )
			Heating (H2	)		-	-
	Max power of	consumption				1.0	65
	Running cur	rent	Cooling			4.4 / 4.3 / 4.1 (2	,
	Than mig our		Heating	A		5.5 / 5.3 / 5.0 (2	
Operation	Inrush curre	nt, max current				5.5 / 5.3 / 5.0 (220/	,
data	Power facto	·	Cooling	%		9	
			Heating	,,,		9	
	EER		Cooling			3.8	
	COP		Heating			3.	
			Heating (H2	)		-	
	Sound powe	er level	Cooling			52	62
			Heating			53	62
	Sound press	ure level	Cooling	dB(A)		36 Me: 32 Lo: 29	50
			Heating	4	P-Hi: 41 Hi:	38 Me: 34 Lo: 30	50
	Silent mode	sound pressure l	evel			-	Cooling:45 / Heating:43
Exterior dime	ensions (Heigh	it x Width x Depth	ר)	mm	-	8 x 570 x 570 0 x 620 x 620	540 x 780(+62) x 290
Extorior on a	aranoc					0 x 620 x 620 ne snow	Stucco white
Exterior appe (Equivalent co	earance olor : Munsell	BAL)				ne snow 1 ) near equivalent	Stucco white (4.2Y 7.5/1.1), (7044)
Net weight		,		kg	``	.5 Panel 2.5	34.5
· ·	type & Quanti	tv		- Ng		_	RM-B5077SBE2(Rotary type) x 1
	motor (Startin			kW		_	0.90 (Inverter driven)
	il (Amount, ty	<b>,</b>		L		_	0.30 ( DIAMOND FREEZE MB75 )
		pre-charge lengt	h)	kg	B32_0	78 in outdoor unit (Incl. th	e amount for the piping of 15m )
Heat exchange		pro onargo longe	.,	- Ng		nner grooved tubing	M fins & inner grooved tubing
Refrigerant co					Louvor nino a n	Capillary tubes + Elect	
Fan type & Q					Tange	ntial fan x 1	Propeller fan x 1
	tarting metho	d)		W	•	ect line start)	24 x1 (Direct drive)
	tarting motilo	a)	Cooling			3.0 Me: 7.5 Lo: 6.5	31.5
Air flow Heating		m³/min		9.0 Me: 8.0 Lo: 7.0	31.5		
Available external static pressure		Pa	1 111. 10.0 111.	0	0		
Outside air in	· ·			14	P	ossible	-
Air filter, Qual						net x 1 (Washable)	
,	ation absorbe	r				ve (for fan motor)	Rubber sleeve (for fan motor & compressor)
Electric heate					1000010100	_	Defrost heater 230V 110W
21000110 110410	Remote con	trol			(Option) W	/ired: RC-EX3A, RC-E5, R	CH-E3 Wireless: RCN-TC-5AW-E3
Operation		erature control			(	Thermostat b	
control	Operation di					-	-
Safety equipments			Compressor overheat protection, Overcurrent protection Frost protection, Serial signal error protection, Indoor fan motor error protectic Heating overload protection( High pressure control ), Cooling overload protecti				
	Refrigerant r	piping size (O.D.)		mm		Liquid line: $\phi$ 6.35 (1/4")	Gas line: $\phi$ 9.52 (3/8")
	Connecting					connection	Flare connection
		gth of piping		m		_	_
Installation	Insulation fo	· · · ·				Necessary ( Both s	ides ), independent
data		line (one way) len	gth	m		Max	
		ht diff. between C	0	m	Max.10		/ Max.10 ( Outdoor unit is lower )
	Drain hose						Hole size $\phi$ 20 x 2 pcs., Hole size $\phi$ 16 x 9 pc
Drain pump.	max lift heigh	t		mm		ain pump, 850	
	ed breaker siz			A			6
	ed rotor ampe			A		4.6 / 4.4 / 4.2 (2	220/ 230/ 240V)
Interconnecti	ng wires	Size x Core	number		1.5mm <sup>2</sup> x 4 c	cores (Including earth cab	le) / Terminal block (Screw fixing type)
IP number						IPX0	IPX4
Standard acc	cessories					Mounting kit	, Drain hose
Option parts					OA spac	er : TC-OAS-E2, TC-OAD	P-E, Motion sensor : LB-TC-5W-E
Notes (1) T	he data are r	neasured at the	following cond	itions.		The pipe length is	5m.
	Item	Indoor air ter			r air temperature		
Operation		DB	WB	DB	WB	Standards	
Cool		27°C	19°C	35°C	24°C	ISO5151-T1	—
Heat		20°C	-	7°C	6°C	ISO5151-H1	—
	ting (H2)	20°C	_	2°C	1°C	ISO5151-H2	—
			tured and test		formity with the ISC		]
(3) S	Sound level in		e in an anecho	c chambe	er. During operation		vhat higher due to ambient conditions.

## 2. EXTERIOR DIMENSIONS

(1) Indoor units

(a) Wall mounted type (SRK) Models SRK20ZS-W, 25ZS-W, 35ZS-W SRK20ZS-WB, 25ZS-WB, 35ZS-WB SRK20ZS-WT, 25ZS-WT, 35ZS-WT

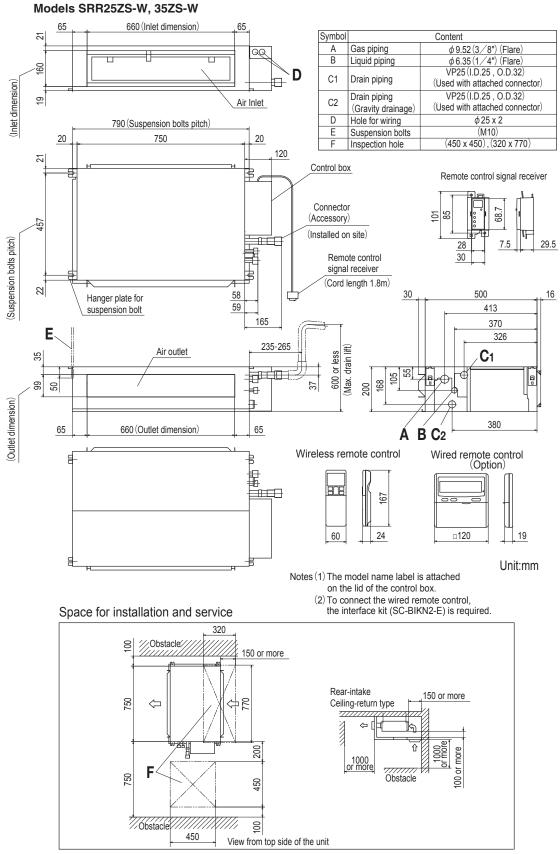


RLF000Z103

(b) Floor standing type (SRF) Models SRF25ZS-W, 35ZS-W

B3.5 620 30.5 83.5 620 138.5 726 255 255 255 255 103.5 Installation plate 5.2 255 255 255 255 255 255 255 255 255		Space for installation and service when viewing from the front Wireless remote control Wireless remote control (Option) (Option) (Option) (Option) (0
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	10     10     10       76.3     157.2     840       157.2     840       157.2     840       157.2     10       10     60       10     60       10     10       10 <td>Be down pipeling the above view of the above vie</td>	Be down pipeling the above view of the above vie

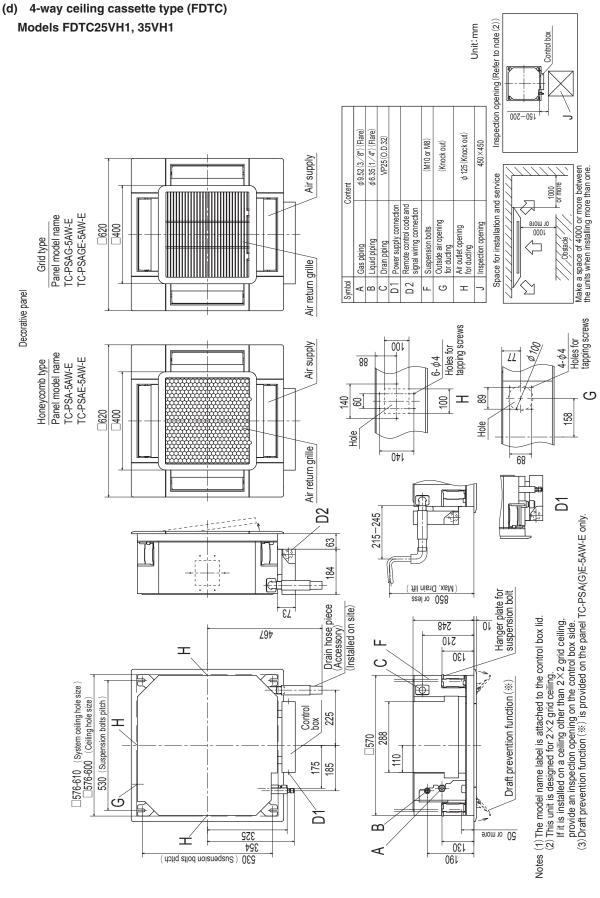
RFB000Z006 🛕



(c) Ceiling concealed type (SRR)

-21-

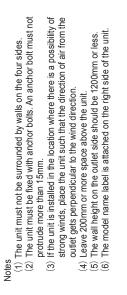
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PJF000Z738 PJF000Z755

## (2) Outdoor units

Models SRC20ZS-WA, 25ZS-WA2, 35ZS-WA2

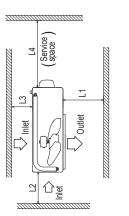


\$\$\phi\$ 9.52(3\8")(Flare)

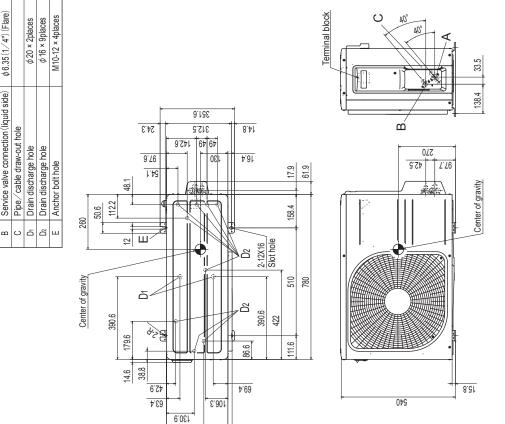
Content

Symbol

Service valve connection (gas side)







Space for installation and service when viewing from the front

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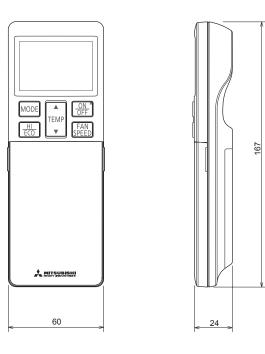
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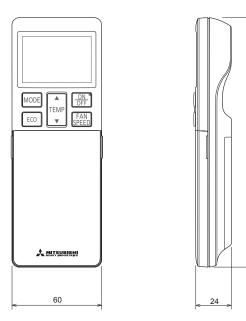
#### (3) Remote control

(a) Wireless remote control Models SRK, SRF, SRR (Standard part)

Unit:mm



Model FDTC (Option part)

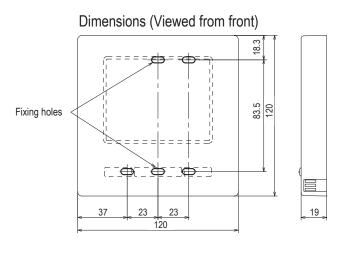


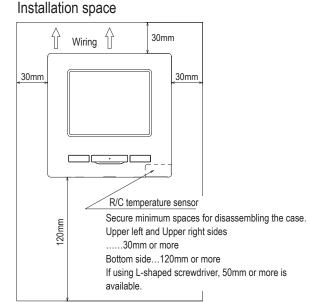
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#### (b) Wired remote control (Option parts)

Interface kit (SC-BIKN2-E) is required to use the wired remote control.

#### Model RC-EX3A





#### • 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

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

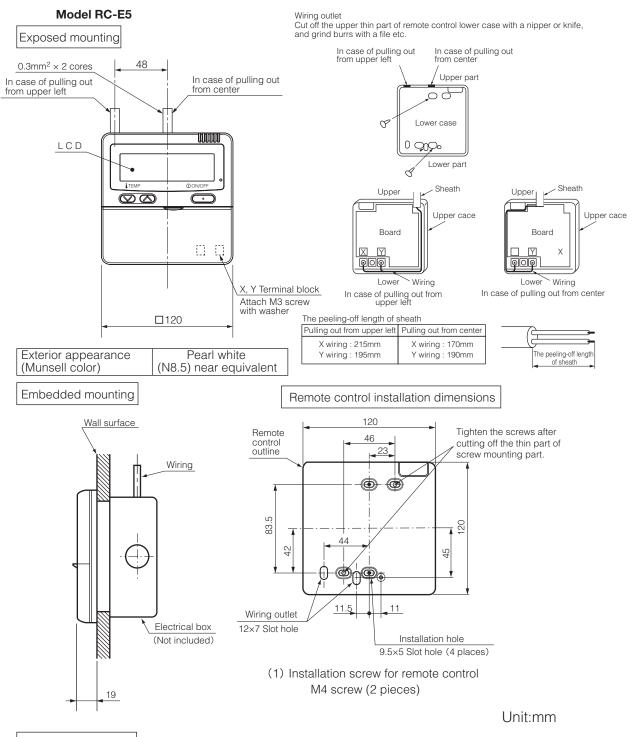
It could cause malfunction or break-down due to hazardous effects on the inverter, private power generator, high frequency medical equipment, radio communication equipment, etc. The influences transmitted from the remote control to medical or communication equipment could disrupt medical activities, video broadcasting or cause noise interference.

#### R/C cable:0.3mm<sup>2</sup> x 2 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 <sup>2</sup> x 2 cores
≦ 300m	0.75 mm <sup>2</sup> x 2 cores
≦ 400m	1.25 mm <sup>2</sup> x 2 cores
≦ 600m	2.0 mm <sup>2</sup> x 2 cores

Adapted RoHS directive



#### Wiring specifications

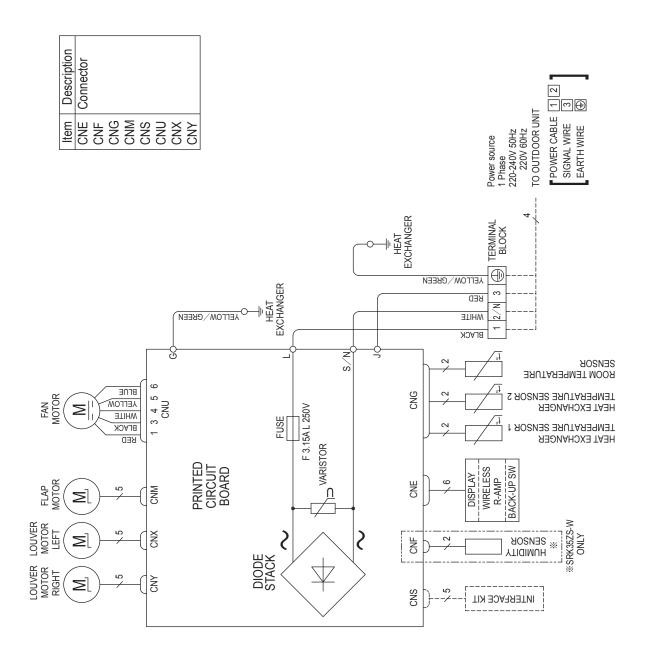
(1) If the prolongation is over 100m, change to the size below.

But, wiring in the remote control case should be under 0.5mm<sup>2</sup>. 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 <sup>2</sup> × 2 cores
Under 300m	0.75mm <sup>2</sup> × 2 cores
Under 400m	1.25mm <sup>2</sup> × 2 cores
Under 600m	2.0mm <sup>2</sup> × 2 cores

## **3. ELECTRICAL WIRING**

- (1) Indoor units
  - (a) Wall mounted type (SRK) Models SRK20ZS-W, 25ZS-W, 35ZS-W SRK20ZS-WB, 25ZS-WB, 35ZS-WB SRK20ZS-WT, 25ZS-WT, 35ZS-WT



#### (b) Floor standing type (SRF) Models SRF25ZS-W, 35ZS-W

Meaning of marks Item Description CNE-CNX2 Connector	2 <u>7</u>	Color marks Mark Color BK Black BL Blue RD Red WH White Y Yellow Y G Yellow
	CIRCUIT CIRCUIT CIRCUIT CORRUTE CIRCUIT CORRUTE CONC CONC CONC CONC CONC CONC CONC CONC CIRCUIT CONC CON	ECHANGER IT

'21 • SRK-T-299

# (c) Ceiling concealed type (SRR) Models SRR25ZS-W, 35ZS-W Heat exchanger temperature sensor Room temperature sensor

Fan motor

CNG CNV CNV CNV FMi

Description

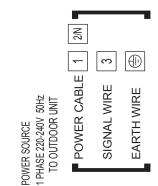
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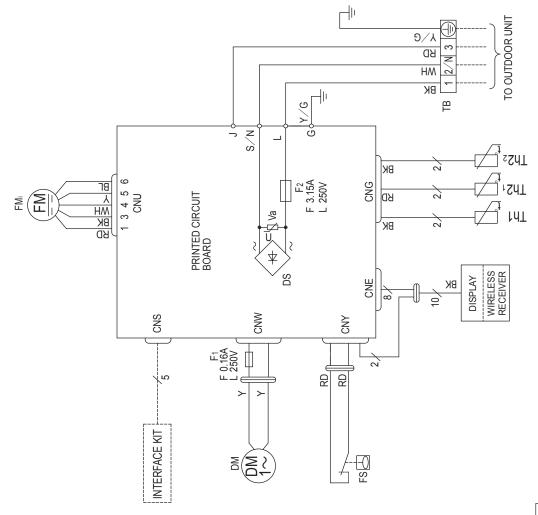
Connector

CNE

Meaning of marks







Drain pump motor

MD Щ

Float switch

БS

Varistor

\ ∠a

Terminal block

Diode stack

DS F1,≥

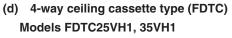
Th2<sub>1,2</sub>

Th1

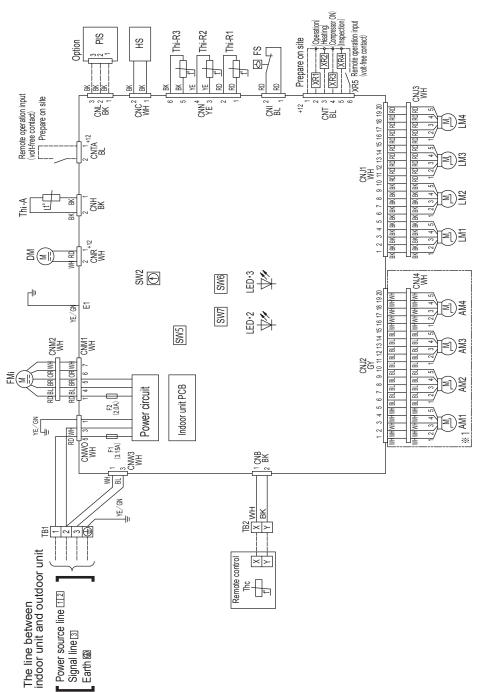
Fuse

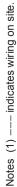
RJJ000Z003 🛕

Meaning of marks	of marks
ltem	Description
AM1 - 4	Draft prevention function motor
CNB - Z	Connector
DM	Drain pump motor
F1,2	Fuse
FMI	Fan motor
FS	Float switch
HS	Humidity sensor
LED·2	Indication lamp (Green-Nomal operation)
LED•3	Indication lamp (Red-Inspection)
LM1-4	Louver motor
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)





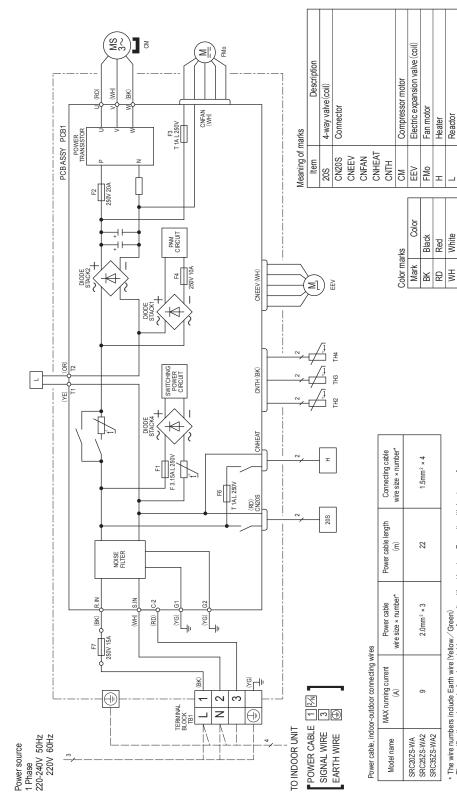




PJF000Z516 /

(2) See the wiring diagram of outdoor unit about the line between indoor unit and outdoor unit. (3) Use twin core  $cord(0.3mm^2)$  at remote control line.

See specification sheet of remote control in case that the total length is more than 100m. (4) Do not put remote control line alongside power source line. (5) Draft prevention function (※ 1) is provided on the panel TC-PSA (G) E-5AW-E only.



• The wire numbers include Earth wire (Yellow / Green) • The specifications shown in the above table are for units without heaters. For units with heaters, refer to the installation instructions or the construction instructions of the indoor unit • Switchpager or circuit breaker capacity should be chosen according to rational or regional electricity regulations.

Heat exchanger temperature sensor Discharge pipe temperature sensor

TH2 TH3

Orange

Ю Ъ ළ

Outdoor air temperature sensor

TH4

Green

Yellow Yellow

#### (2) Outdoor units

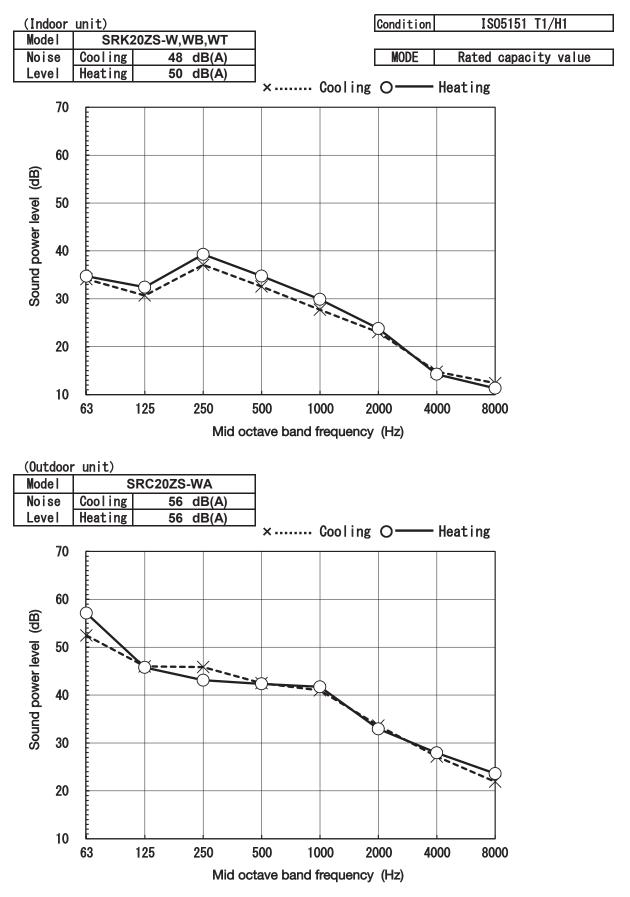
Models SRC20ZS-WA, 25ZS-WA2, 35ZS-WA2

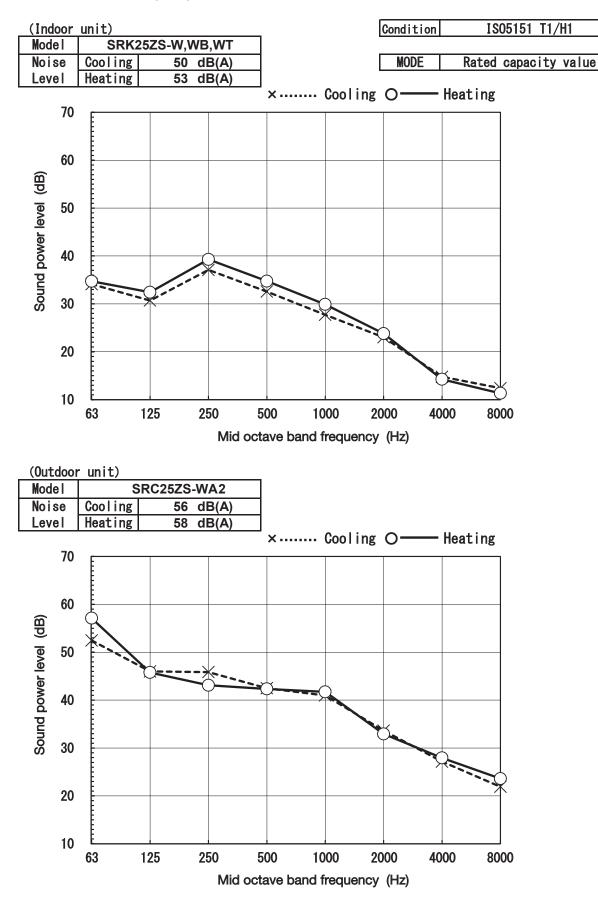
## 4. NOISE LEVEL

(1) Wall mounted type (SRK)

(a) Sound power level

Models SRK20ZS-W, -WB, -WT

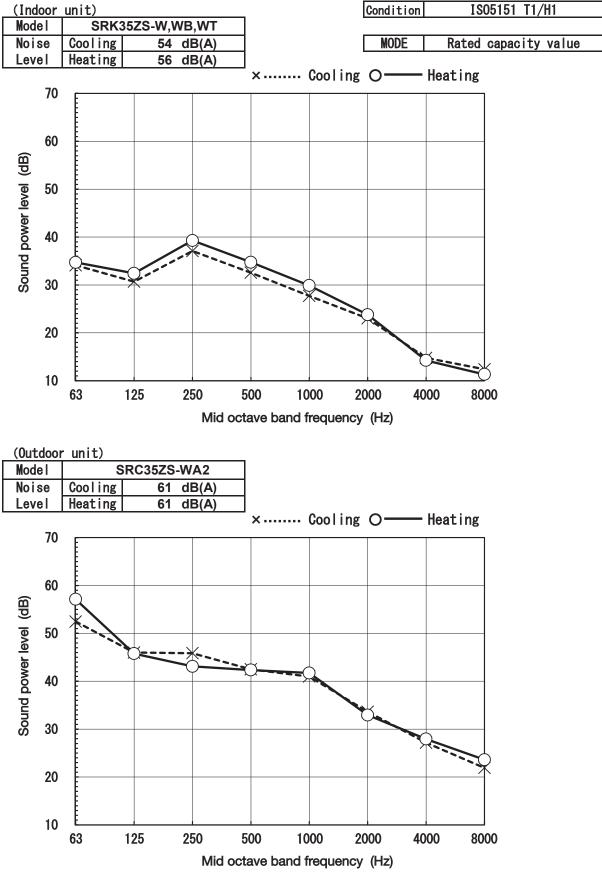


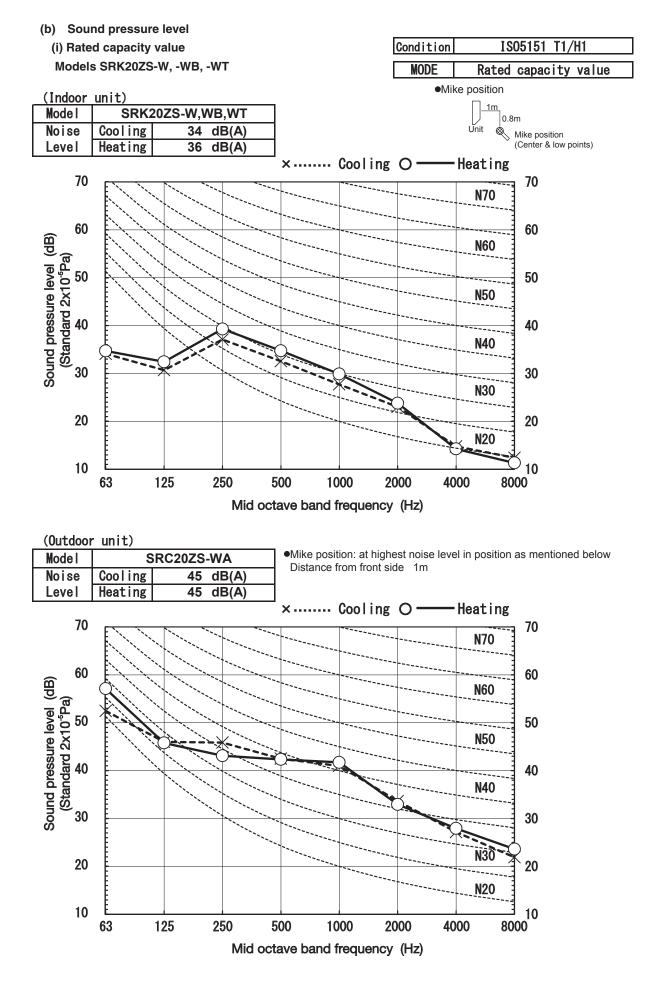


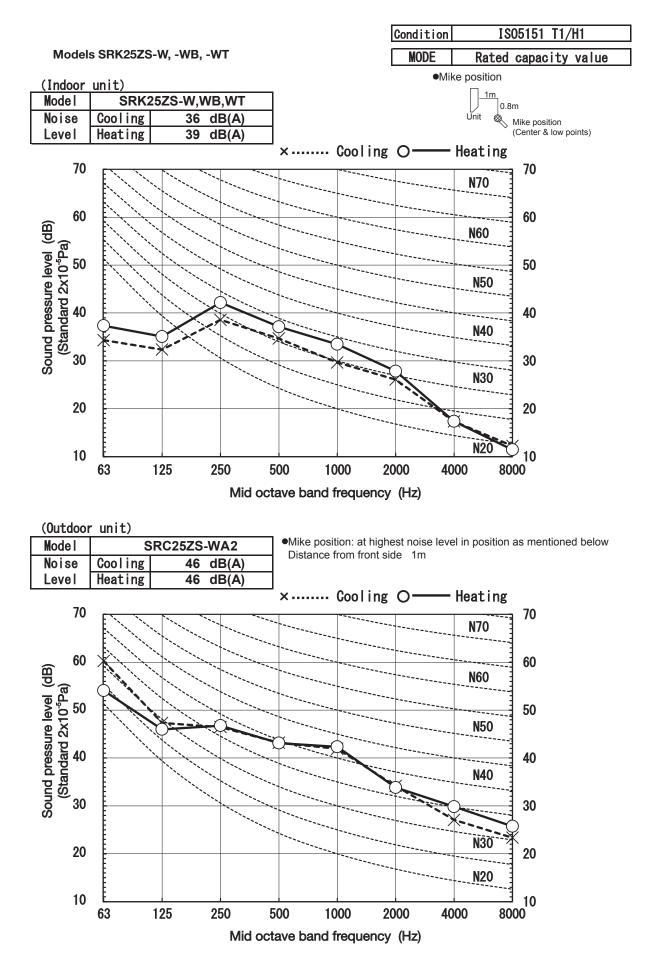
#### Models SRK25ZS-W, -WB, -WT

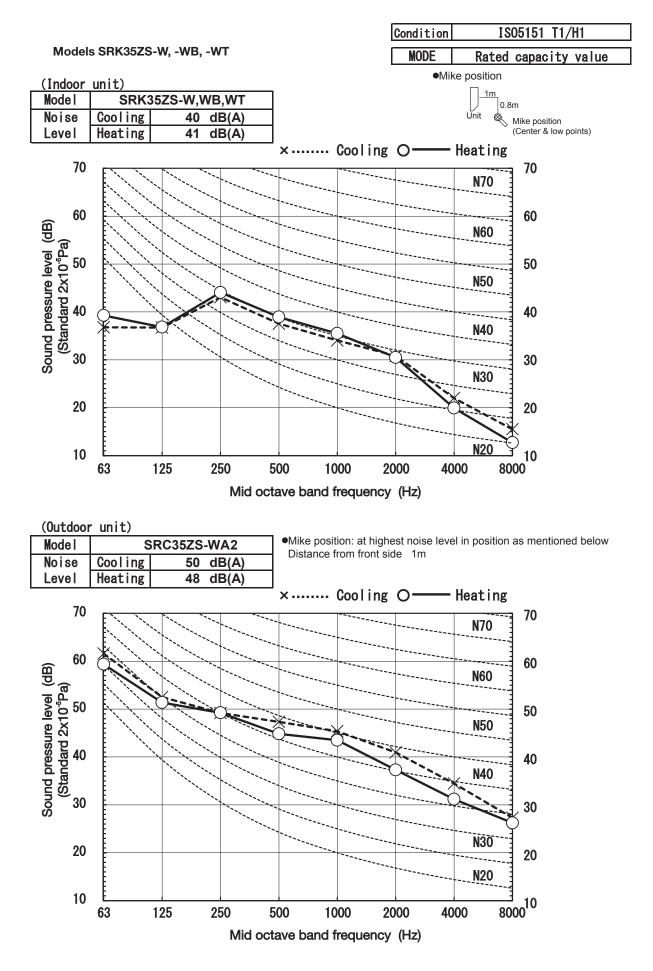


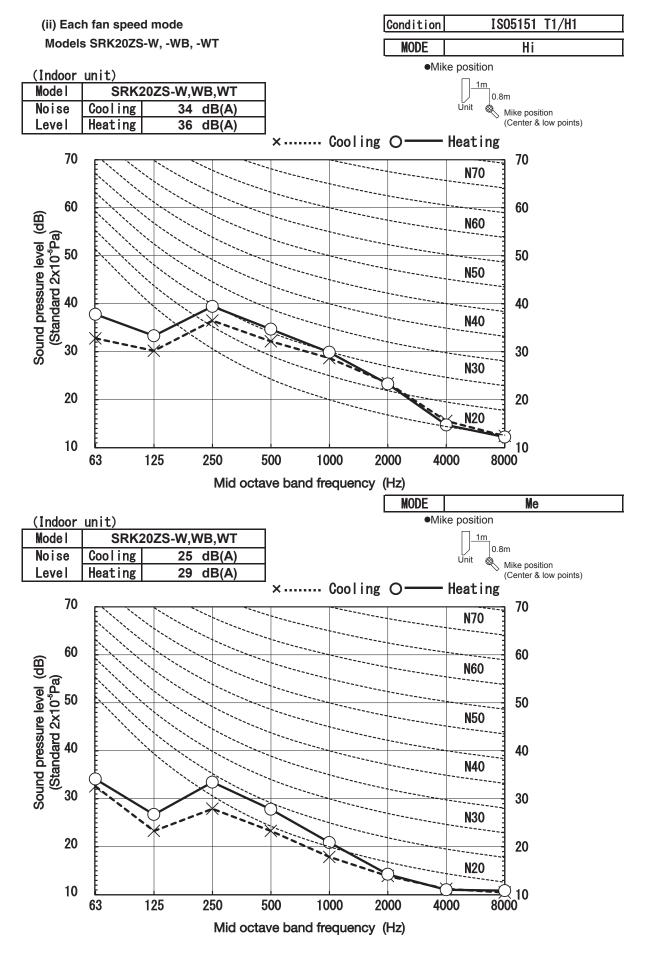
Models SRK35ZS-W, -WB, -WT

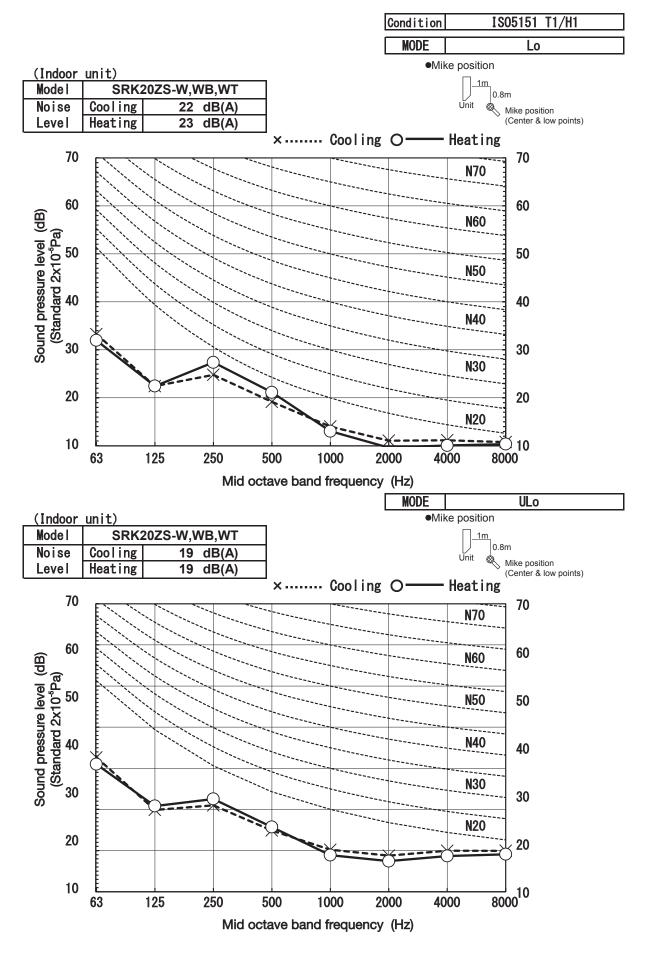


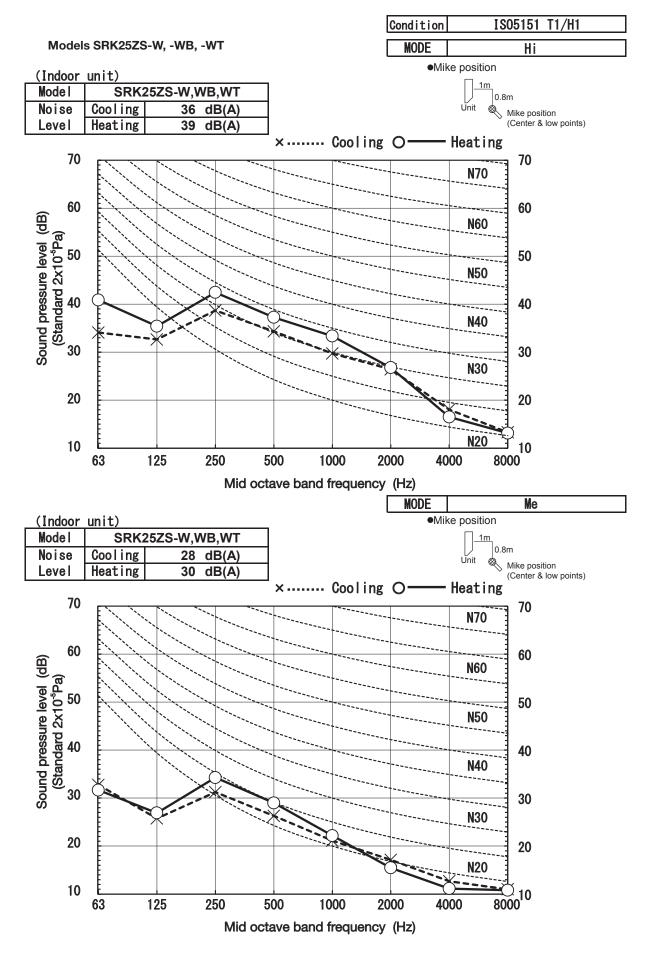


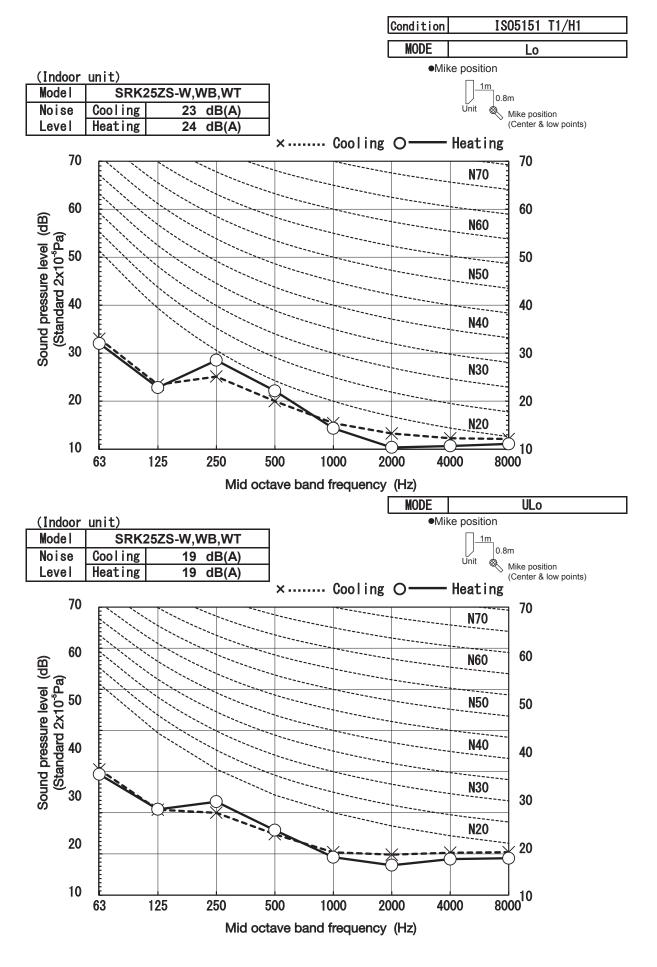


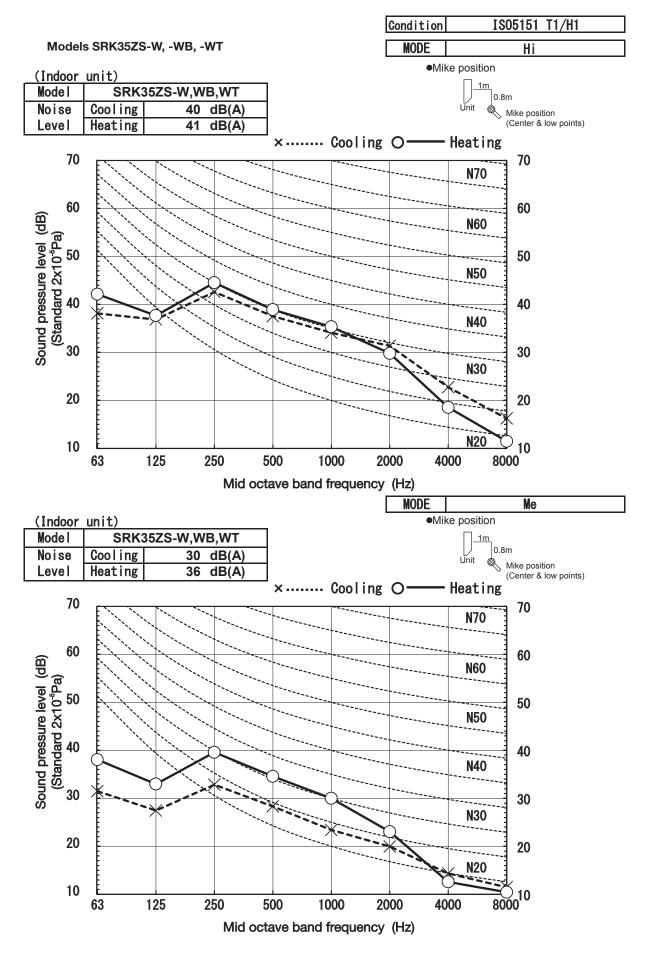


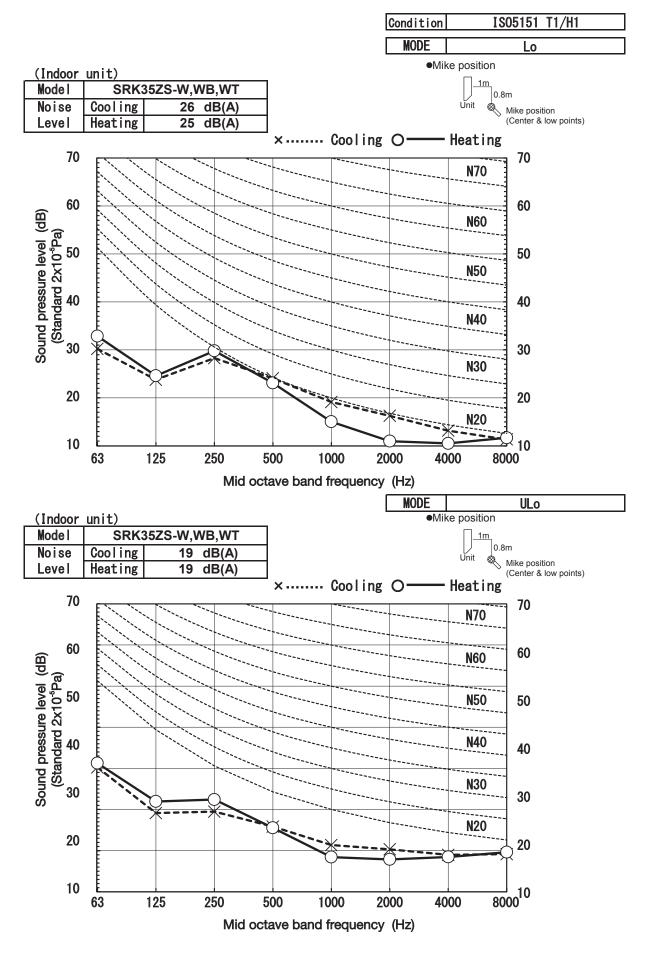


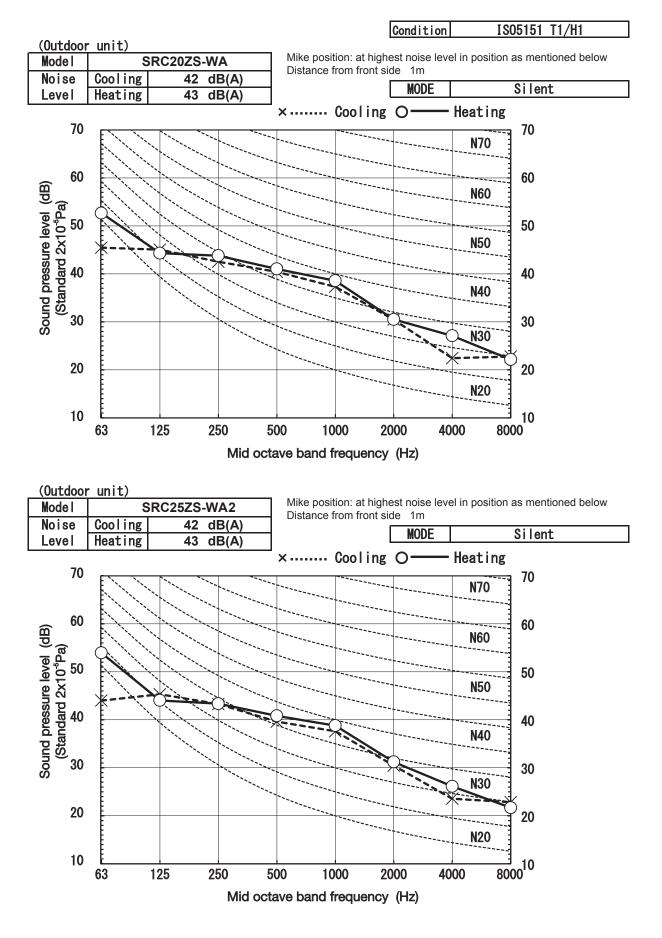


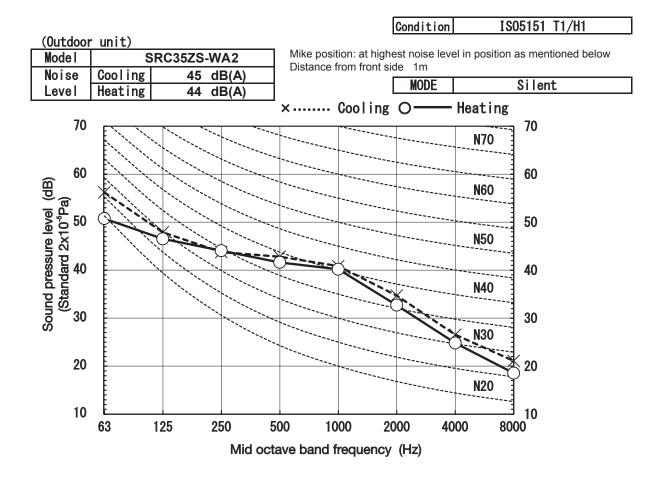












### (2) Floor standing type (SRF)

# (a) Sound power level

## Model SRF25ZS-W

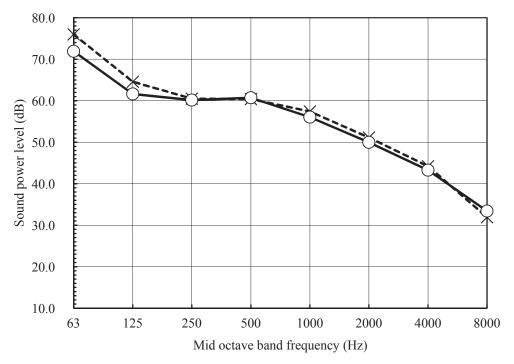
(Indoor u	nit)							Condition		SO5151	T1/H1
Model	SRF25ZS-W										
Noise		ooling 50 dB(A)						MODE	Rated	l capacit	y value (Hi)
Level	Heat	ing	5	1 dB(A)							
						×	•••••	Cooling	0 —	<ul> <li>Heating</li> </ul>	ng
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		60	ŧ								
			Ţ								
	$\mathbf{B}$	50	$\mathbf{F}$								
	Sound power level (dB)	50									
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		10	E								
			63	125	250	500	) 1	000 2	000 4	4000	8000
					Mid	octave	band free	quency (Hz	:)		

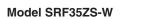
Mid octave band frequency (Hz)

(Outdoor	unit)
Madal	

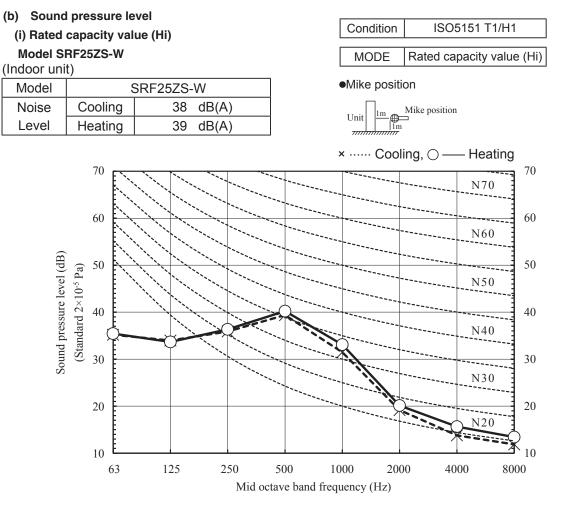
Model	SRC25ZS-WA2			
Noise	Cooling	59 dB(A)		
Level	Heating	60 dB(A)		







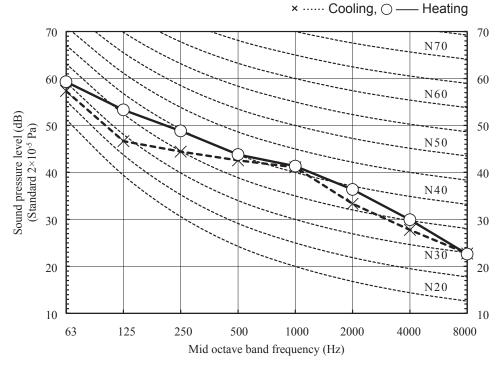
Model SF	RF35ZS-V	/							
<u>(Indoor un</u>	it)					Condition		ISO5151 T1/H	-11
Model		SRF35Z	S-W						
	Cooling	51				MODE	Rate	d capacity va	ue (Hi)
	Heating	52							
					×	- Cooling	0 —	<ul> <li>Heating</li> </ul>	
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	Sound power level (dB) 30 30	Ē							
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	10				<b>I</b>				
		63	125	250	500	1000 2	000	4000 800	00
				Mid or	etave band fr	equency (Hz	)		
				Mid oc	ctave band fr	requency (Hz	)		
Quitdoor	unit)			Mid oc	ctave band fr	equency (Hz	)		
(Outdoor u			14/4 0	Mid oc	etave band fr	requency (Hz	)		
Model	S	RC35ZS		Mid oo	etave band fr	requency (Hz	)		
Model Noise	S Cooling	63	dB(A)	Mid oo	etave band fr	requency (Hz	)		
Model Noise	S		dB(A)	Mid oc					
Model Noise	S Cooling	63	dB(A)	Mid oc		requency (Hz		- Heating	
Model Noise	Cooling Heating	63	dB(A)	Mid oc				- Heating	
Model Noise	S Cooling	63	dB(A)	Mid oc				- Heating	
Model Noise	Cooling Heating	63	dB(A)	Mid oc				- Heating	
Model Noise	Cooling Heating 80.0	63	dB(A)	Mid oc				- Heating	
Model Noise	Cooling Heating	63	dB(A)					- Heating	
Model Noise	Cooling Heating 80.0 70.0	63	dB(A)					- Heating	
Model Noise	Cooling Heating 80.0 70.0	63	dB(A)					- Heating	
Model Noise	Cooling Heating 80.0 70.0	63	dB(A)					- Heating	
Model Noise	Cooling Heating 80.0 70.0	63	dB(A)					- Heating	
Model Noise	Cooling Heating 80.0 70.0	63	dB(A)					- Heating	
Model Noise	Cooling Heating 80.0 70.0	63	dB(A)					- Heating	
Model Noise	Cooling Heating 80.0 70.0	63	dB(A)					Heating	
Model Noise	Cooling Heating 80.0 70.0	63	dB(A)					- Heating	
Model Noise	Cooling Heating 80.0 70.0	63	dB(A)					- Heating	
Model Noise	Cooling           Heating           80.0           70.0           60.0           50.0           40.0	63	dB(A)					Heating	
Model Noise	Cooling Heating 80.0 70.0	63	dB(A)					- Heating	)
Model Noise	Cooling           Heating           80.0           70.0           60.0           60.0           40.0           30.0	63	dB(A)					- Heating	
Model Noise	Cooling           Heating           80.0           70.0           60.0           50.0           40.0	63	dB(A)					- Heating	
Model Noise	Cooling           Heating           80.0           70.0           60.0           60.0           40.0           30.0	63	dB(A)					- Heating	
Model Noise	Cooling Heating 80.0 70.0 60.0 60.0 60.0 50.0 40.0 30.0 20.0	63	dB(A)					- Heating	
Model Noise	Cooling           Heating           80.0           70.0           60.0           60.0           40.0           30.0		B dB(A) dB(A)		×	Cooling			
Model Noise	Cooling Heating 80.0 70.0 60.0 60.0 60.0 50.0 40.0 30.0 20.0	63	dB(A)	250	×	•• Cooling	0	- Heating	)
Model Noise	Cooling Heating 80.0 70.0 60.0 60.0 60.0 50.0 40.0 30.0 20.0		B dB(A) dB(A)	250	×	Cooling	0		00

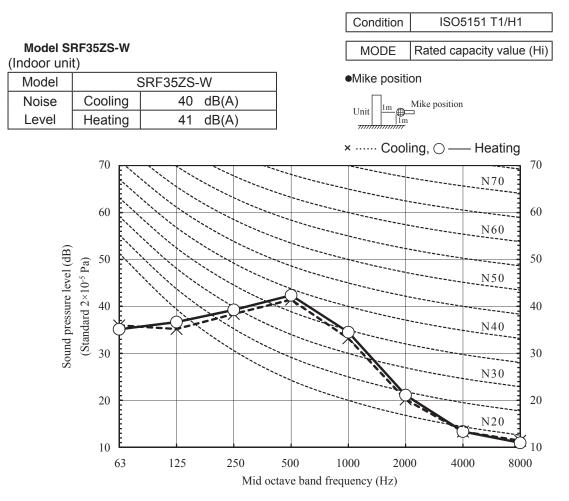


#### (Outdoor unit)

Model	SRC25ZS-WA2			
Noise	Cooling	45 dB(A)		
Level	Heating	47 dB(A)		

•Mike position: at highest noise level in position as mentioned below Distance from front side 1m

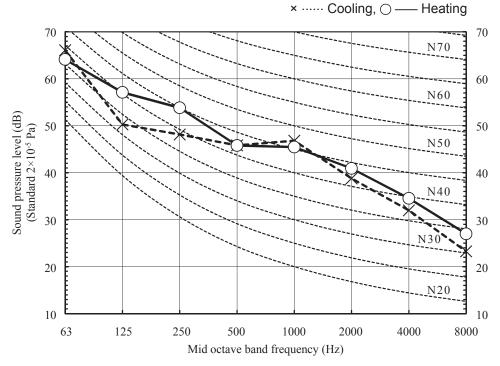




(Outdoor unit)

Model	SRC35ZS-WA2			
Noise	Cooling	50 dB(A)		
Level	Heating	51 dB(A)		

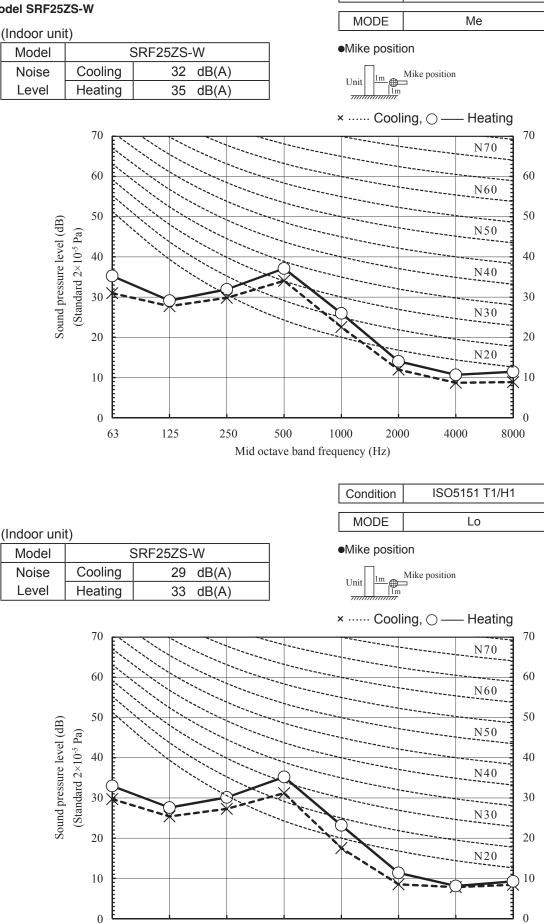
•Mike position: at highest noise level in position as mentioned below Distance from front side 1m



ISO5151 T1/H1

Condition

### (c) Each fan speed mode Model SRF25ZS-W



- 50 -

500

Mid octave band frequency (Hz)

1000

2000

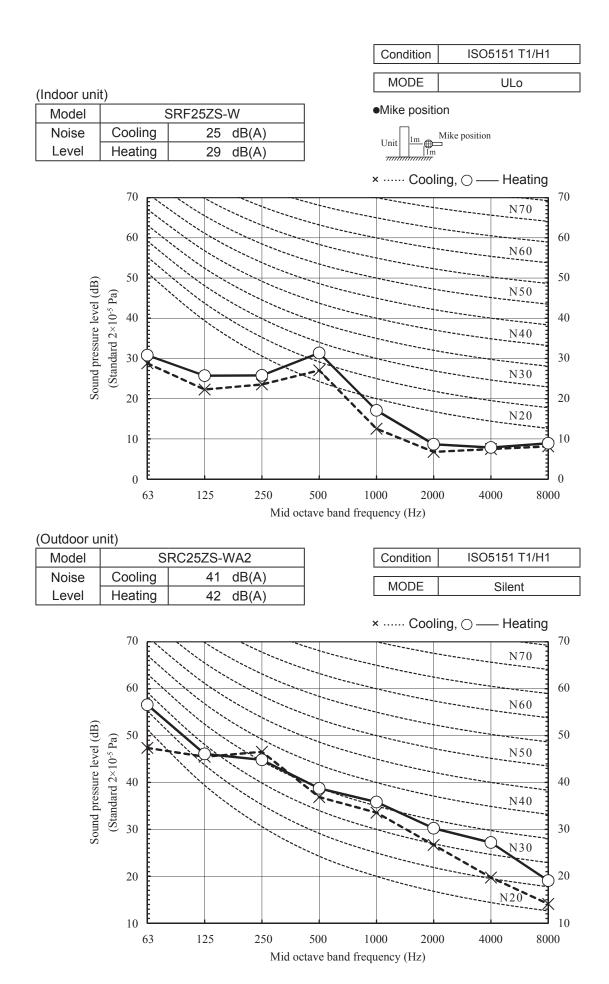
4000

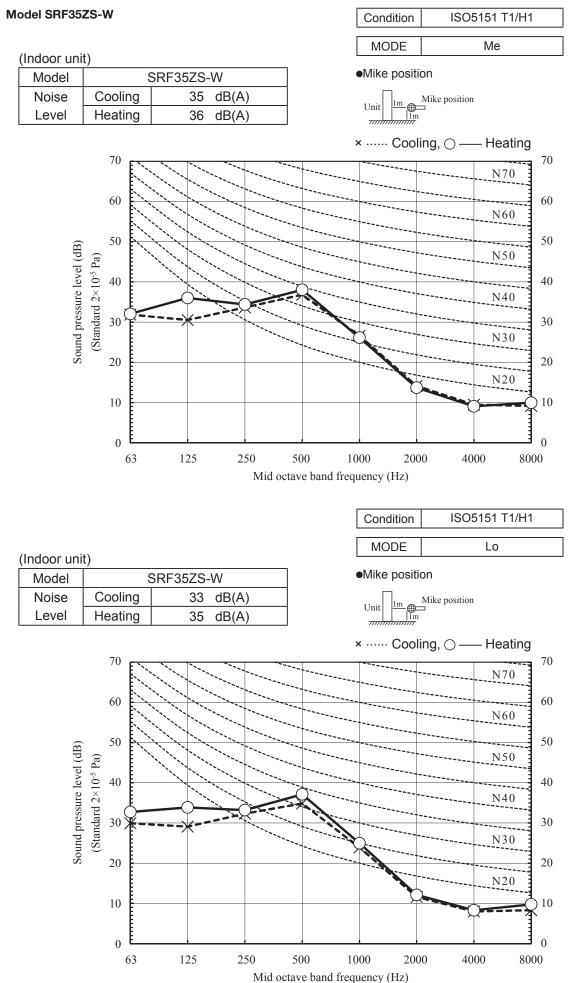
8000

250

63

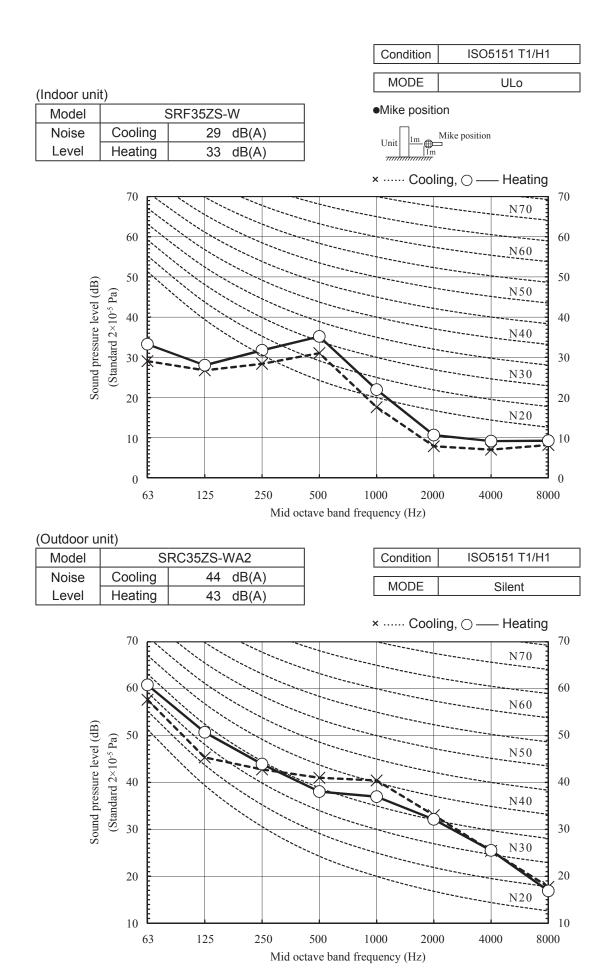
125



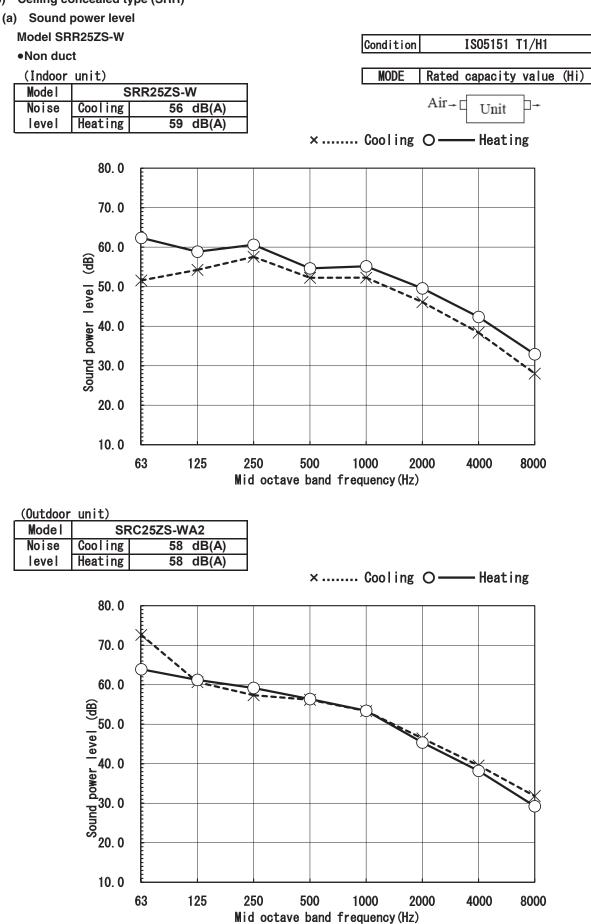


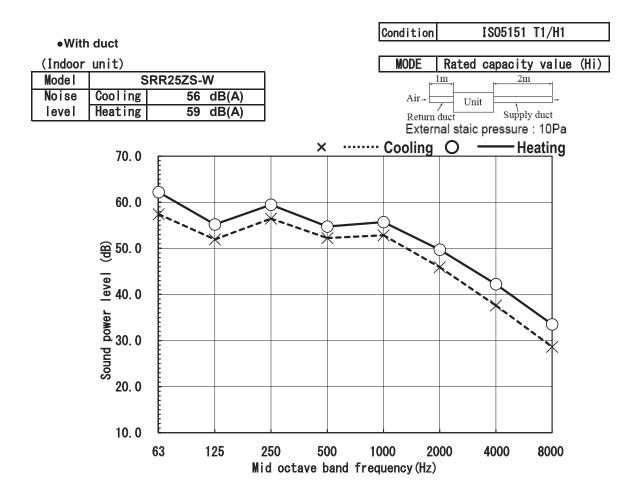
white occa

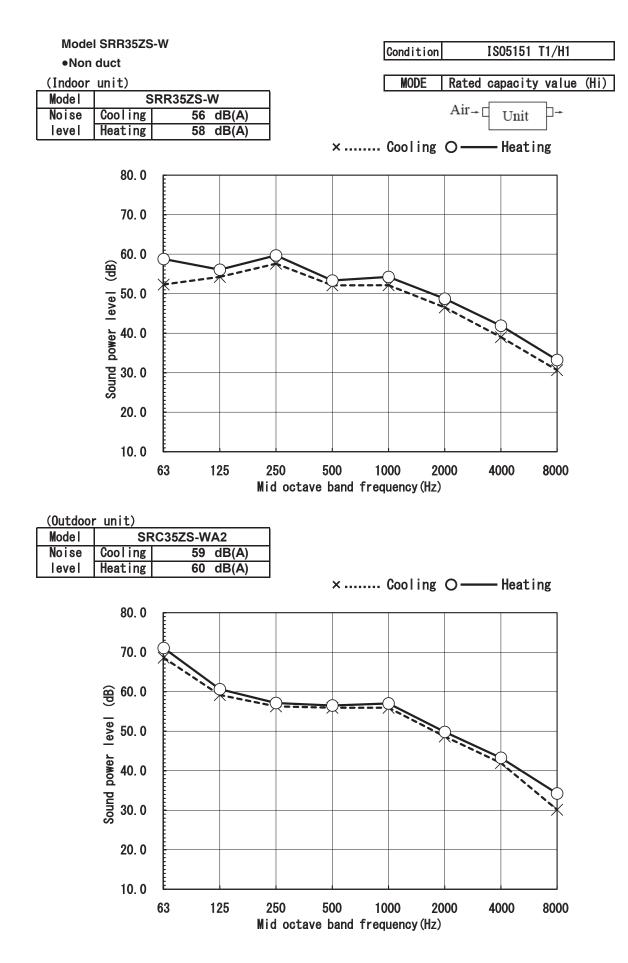
- 52 -

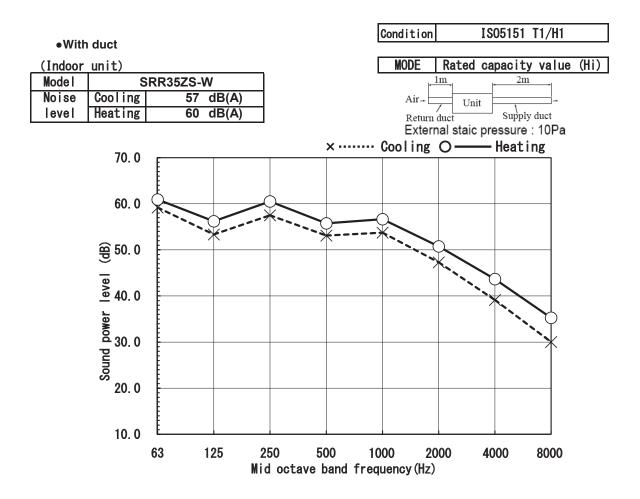


#### (3) Ceiling concealed type (SRR)

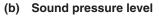








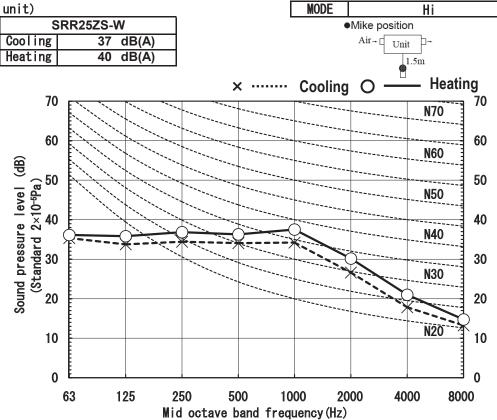
IS05151 T1/H1



(i) Rated capacity value (Hi)

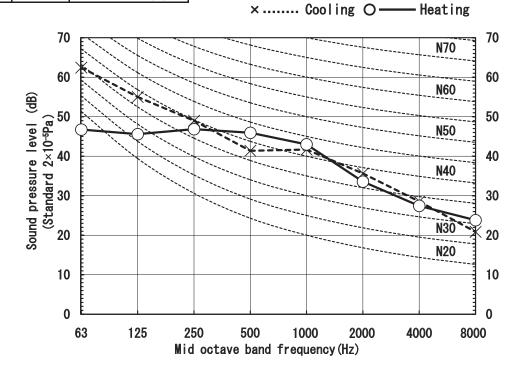
Model SRR25ZS-W  $\bullet$ Sound pressure level 1

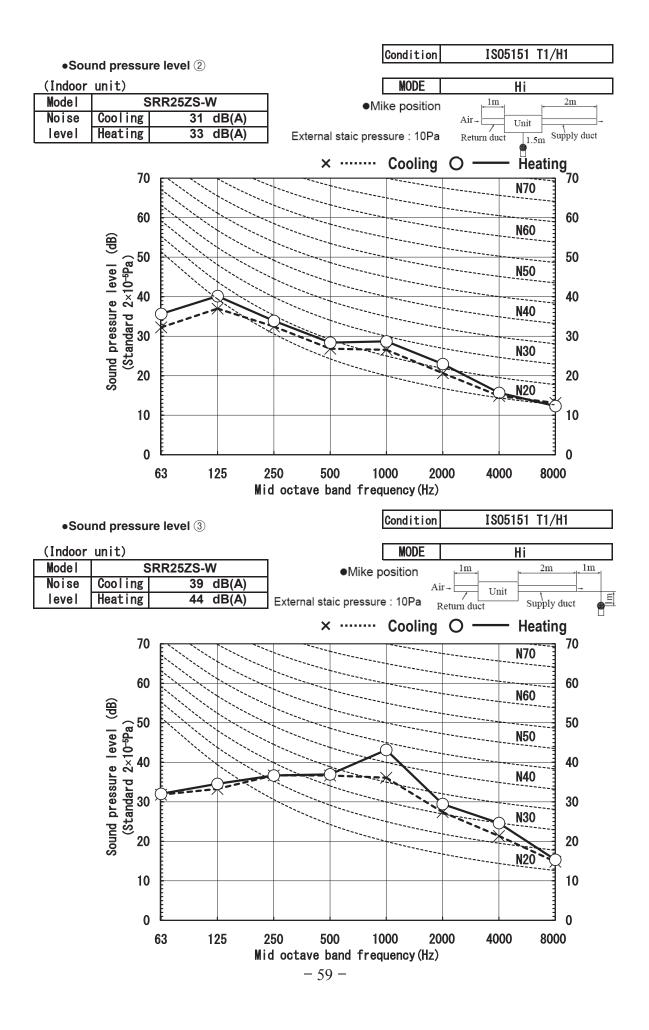
(Indoor unit) SRR25ZS-W Model Noise Cooling level

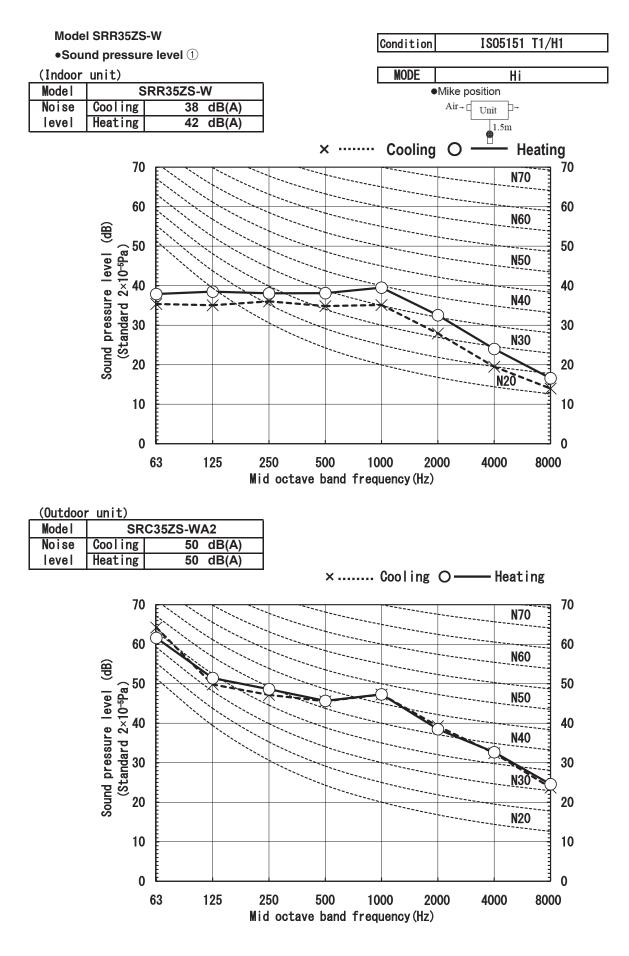


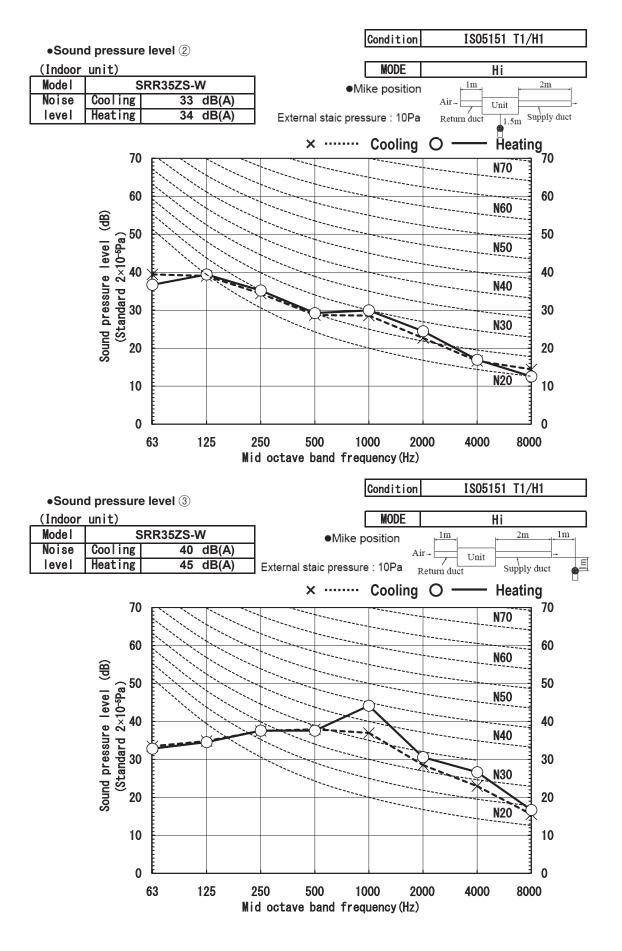
Condition

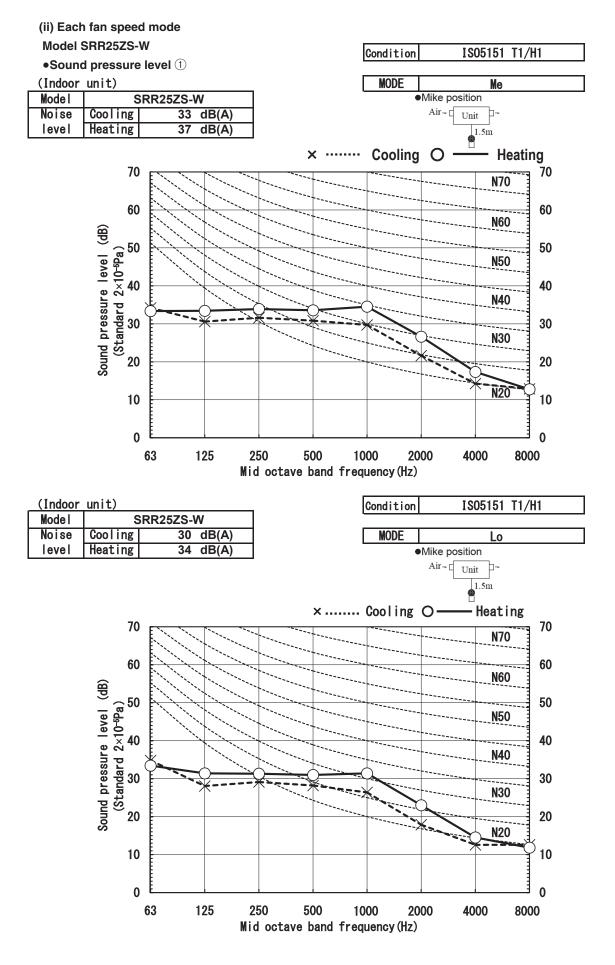
(Outdoor unit)							
<b>Mode I</b>	SRC25ZS-WA2						
Noise	Cooling	47 dB(A)					
level	Heating	47 dB(A)					

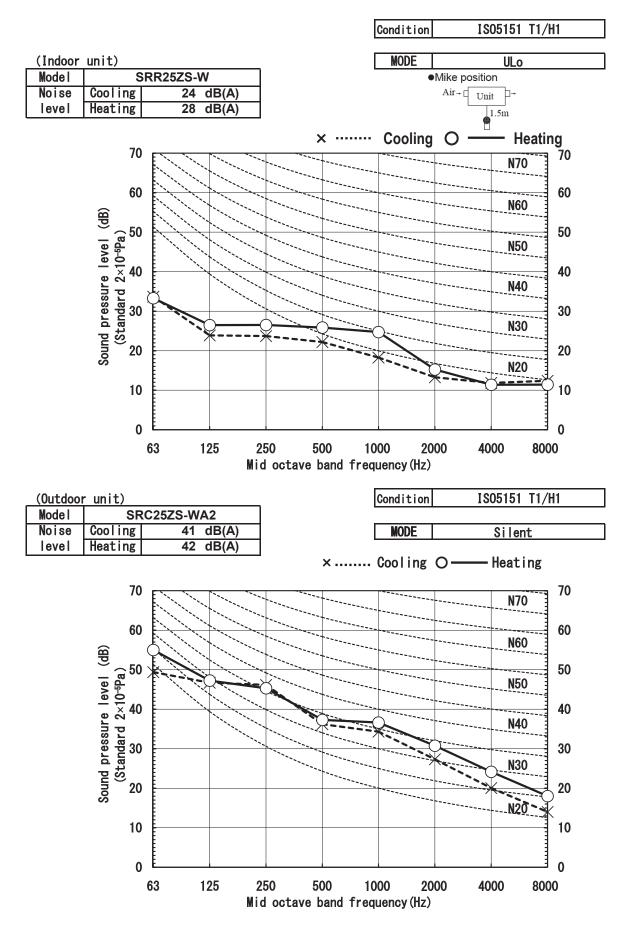


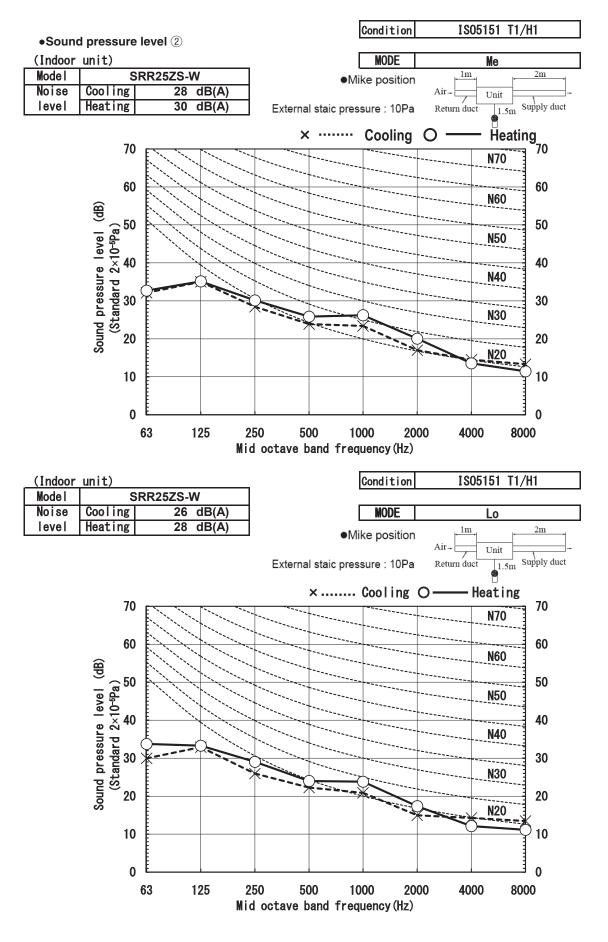


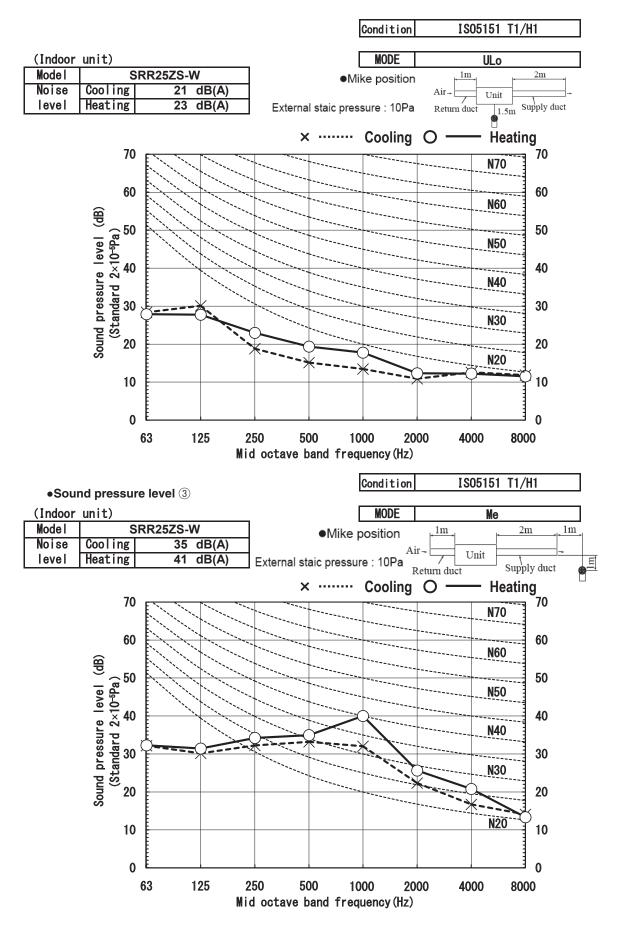


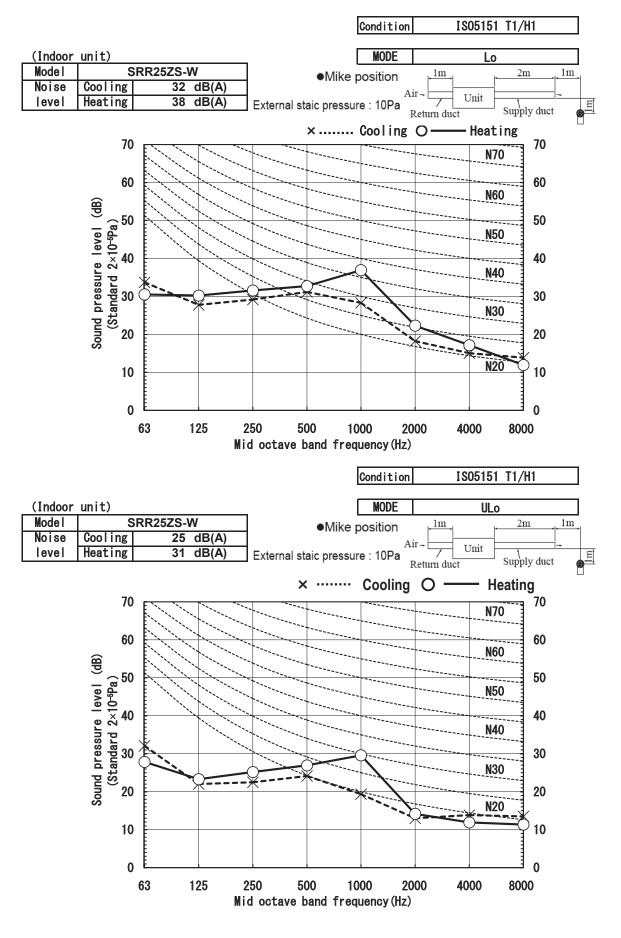


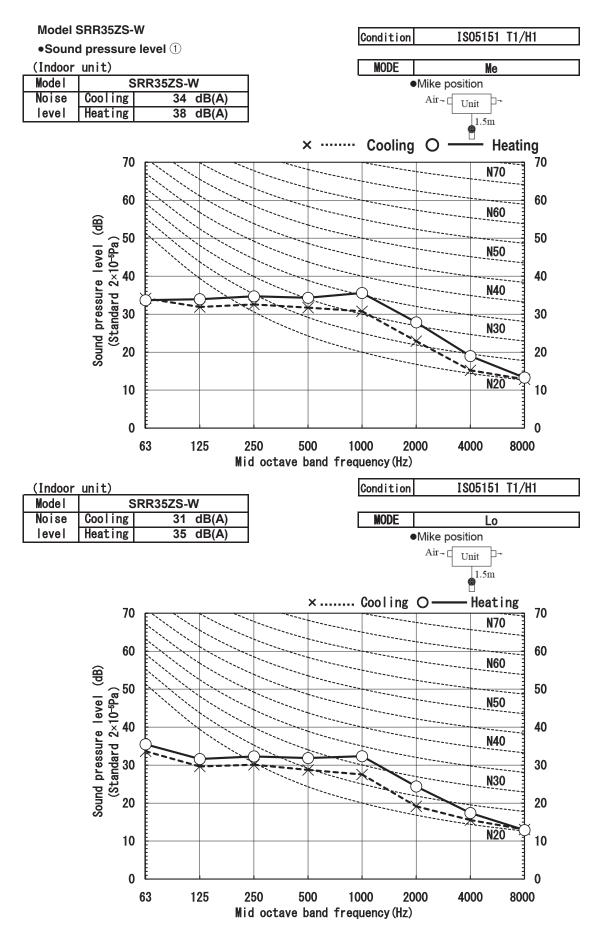


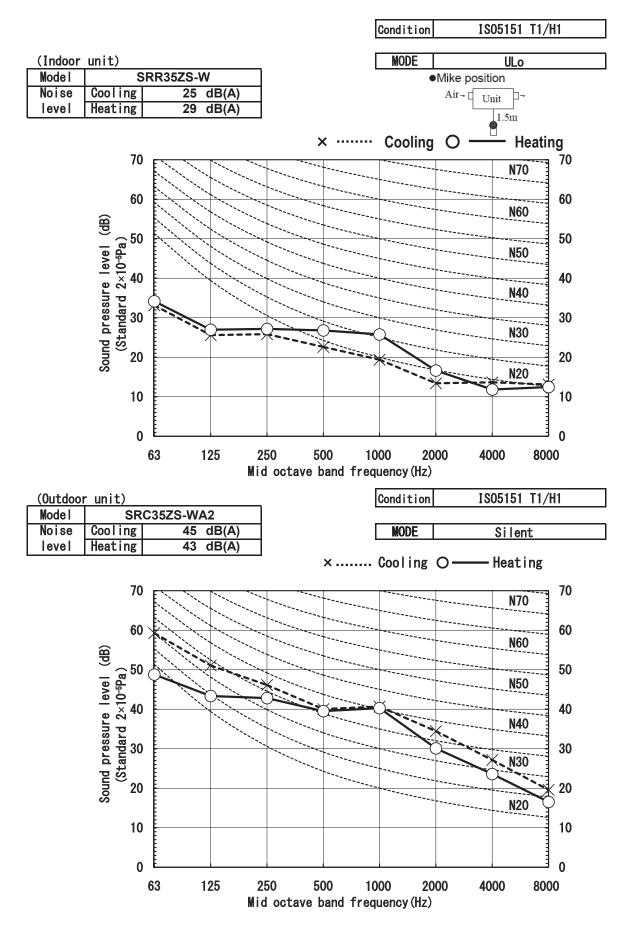


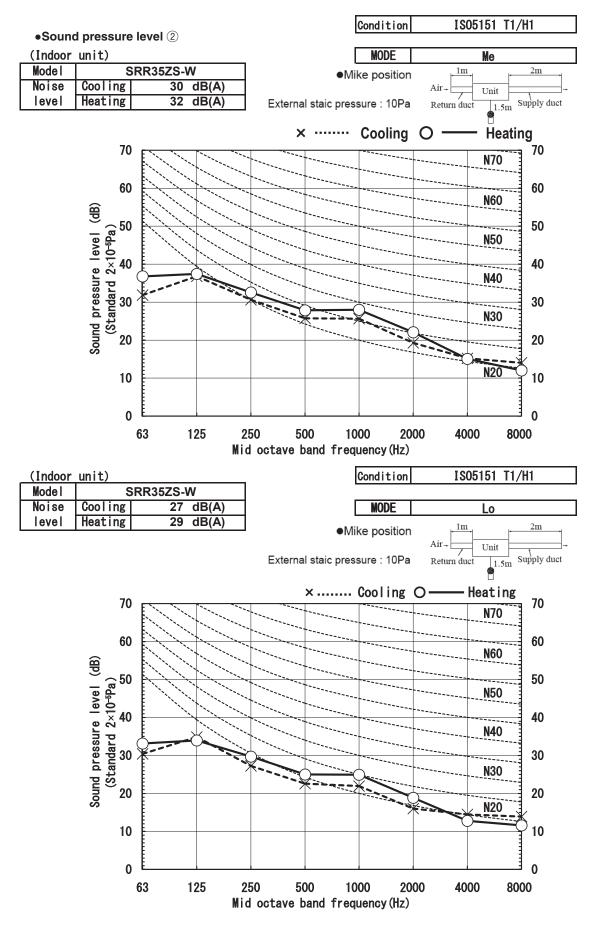


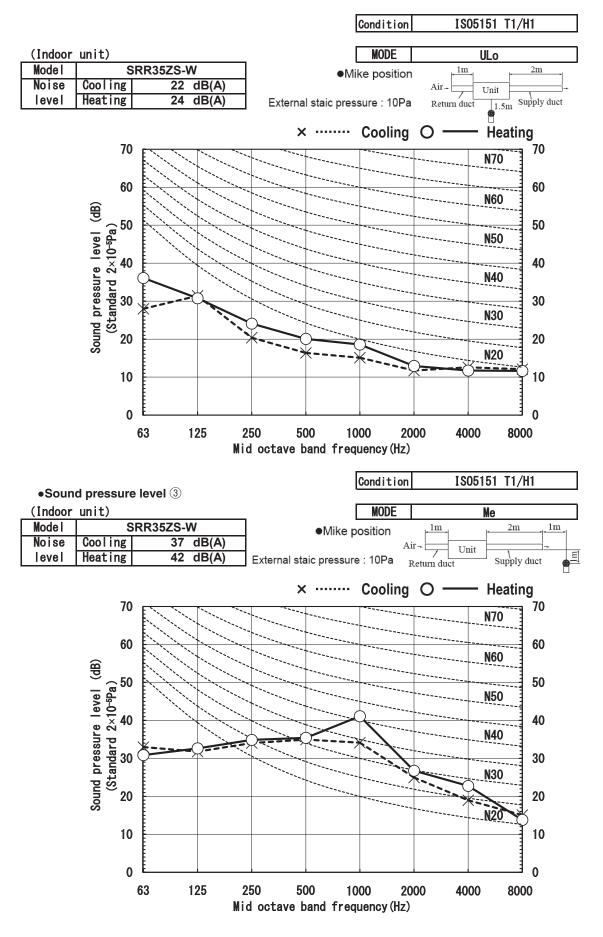


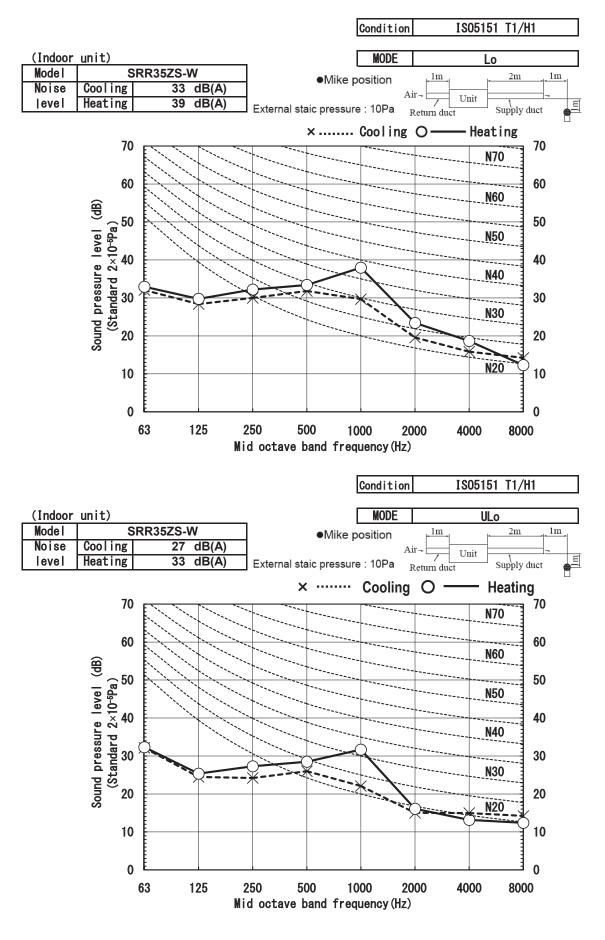






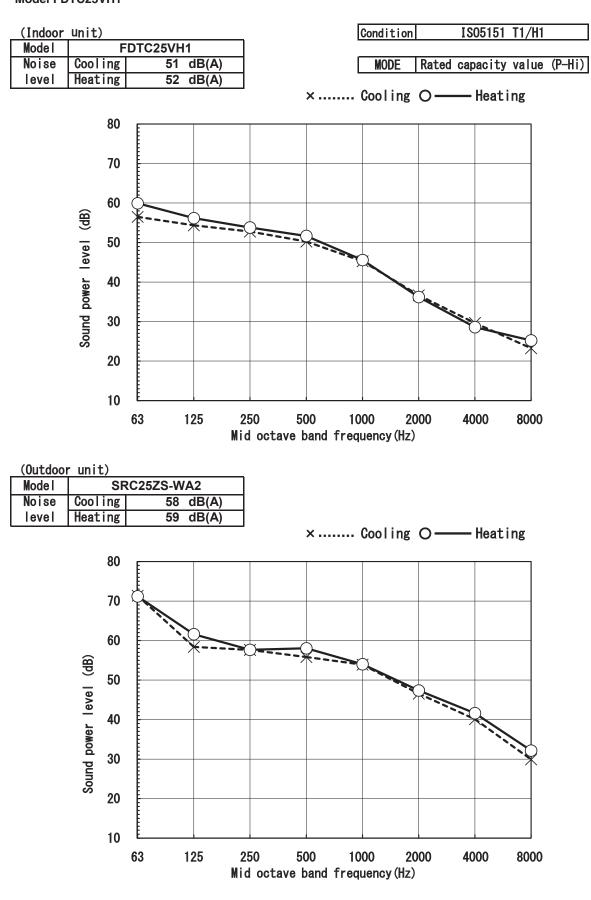




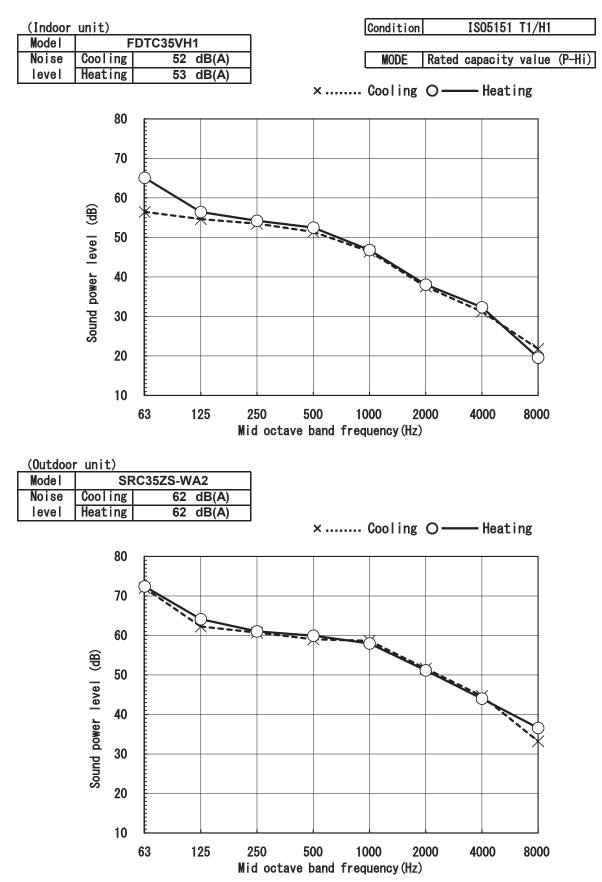


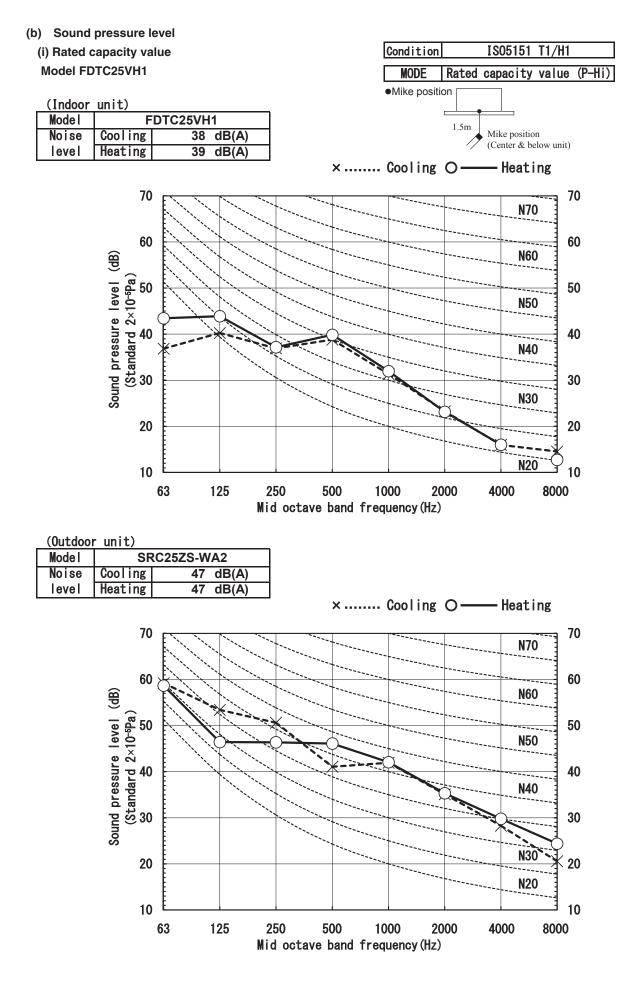
(4) 4-way ceiling cassette type (FDTC)

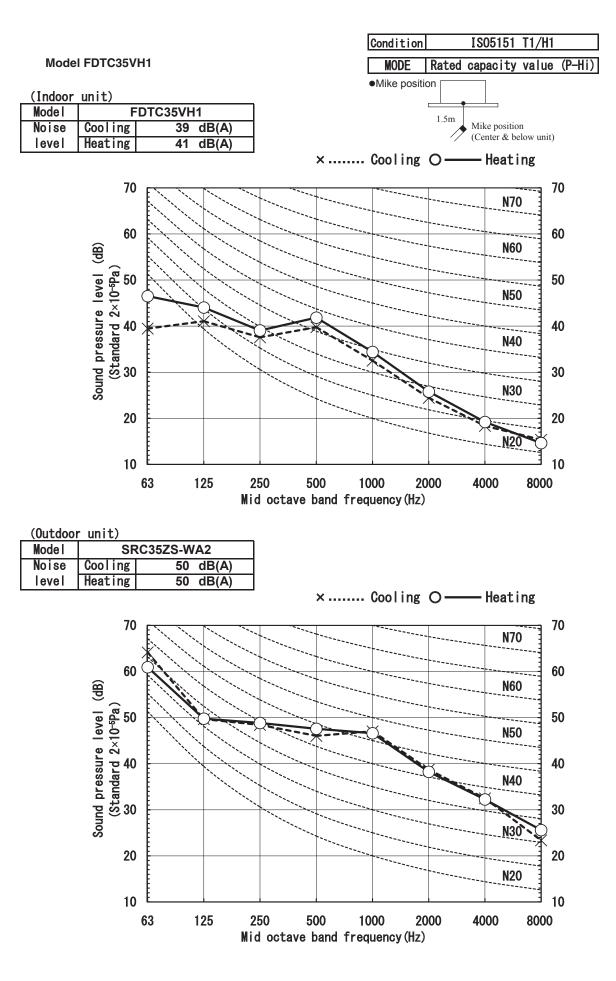
### (a) Sound power level Model FDTC25VH1

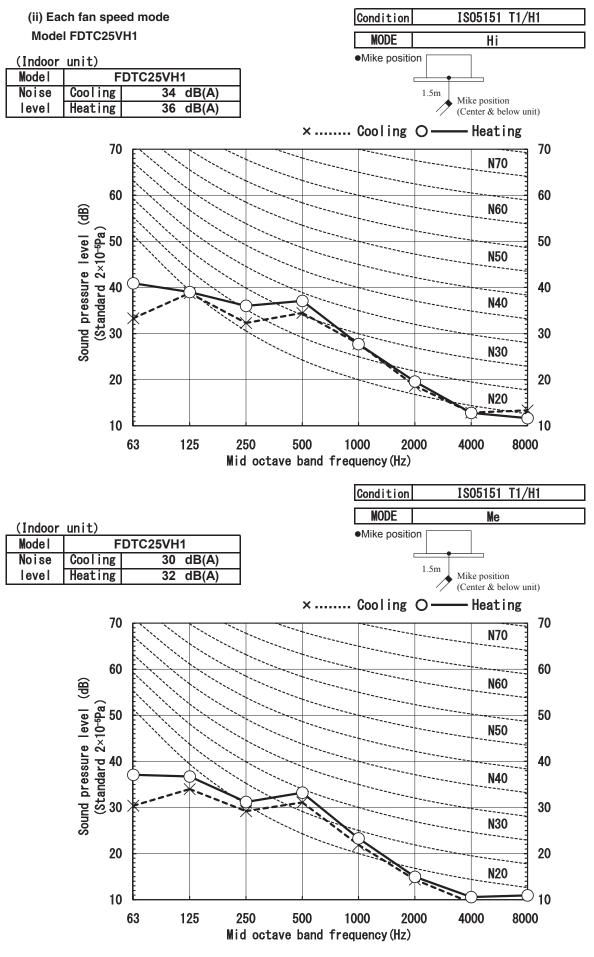


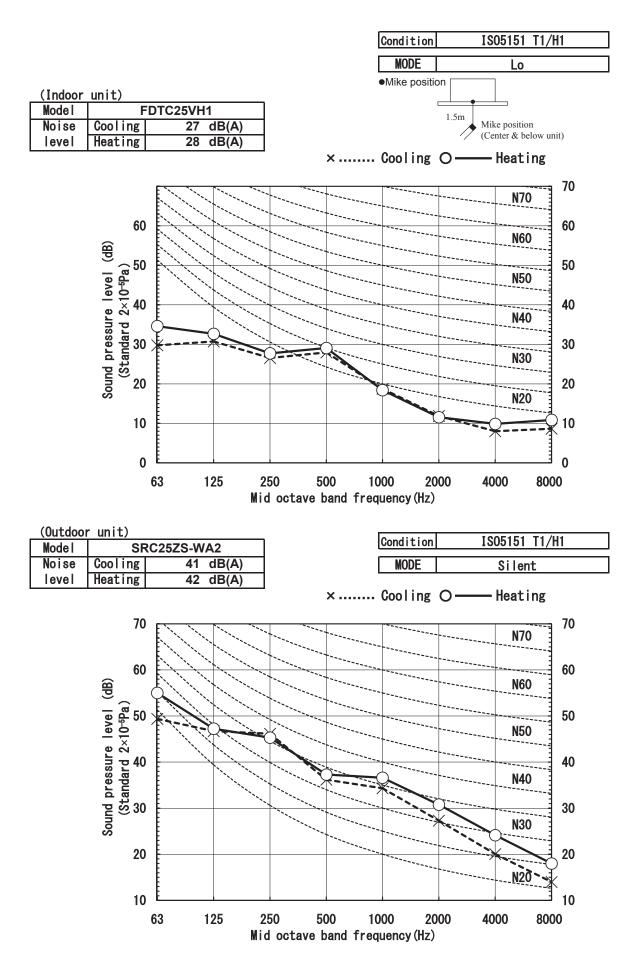
### Model FDTC35VH1

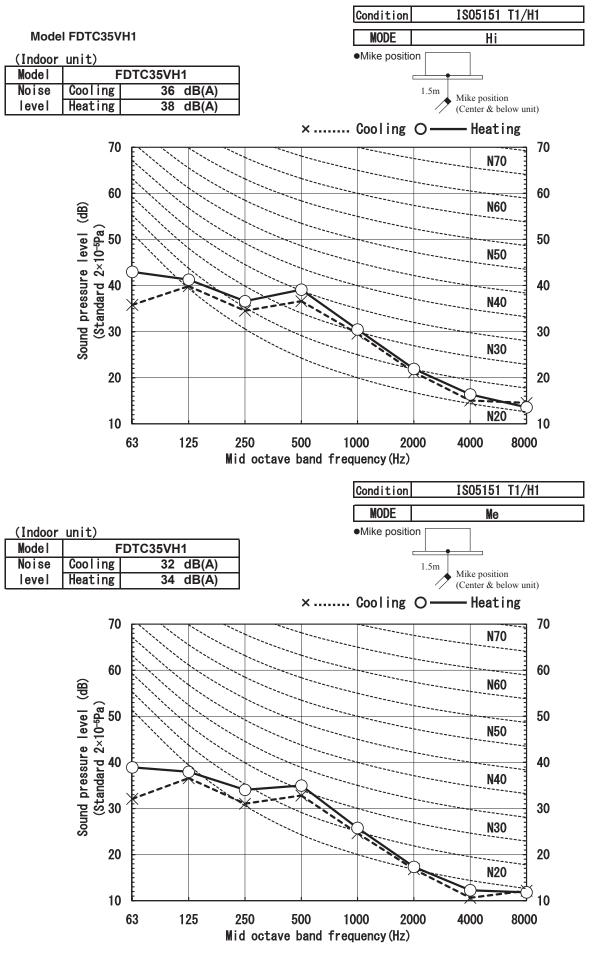


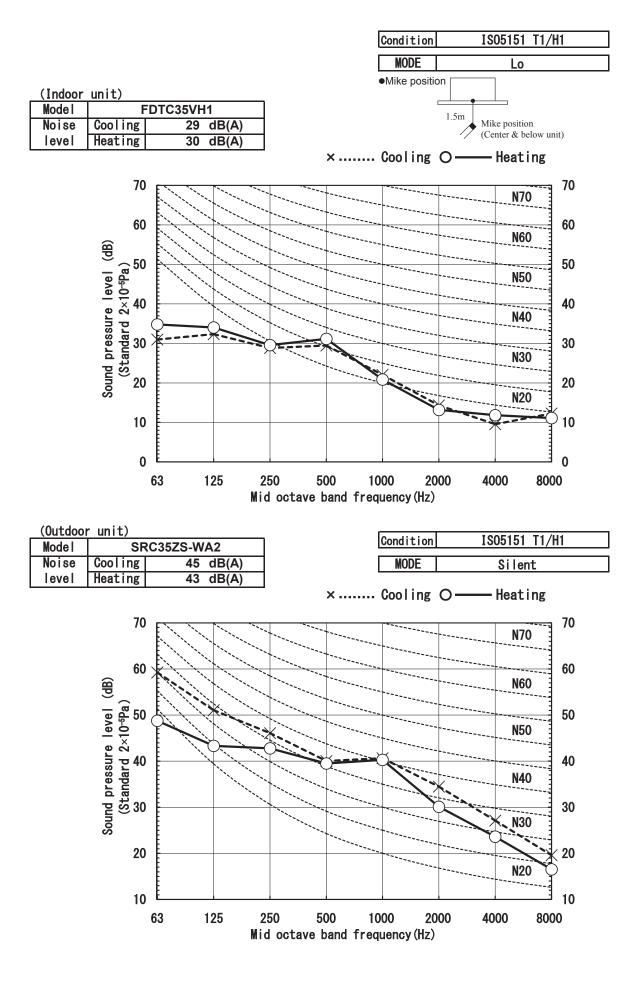




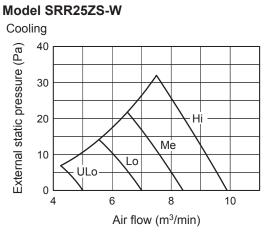


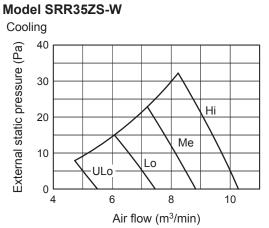


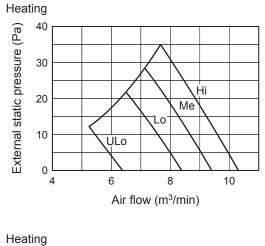


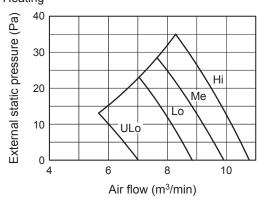


### **5. CHARACTERISTICS OF FAN**



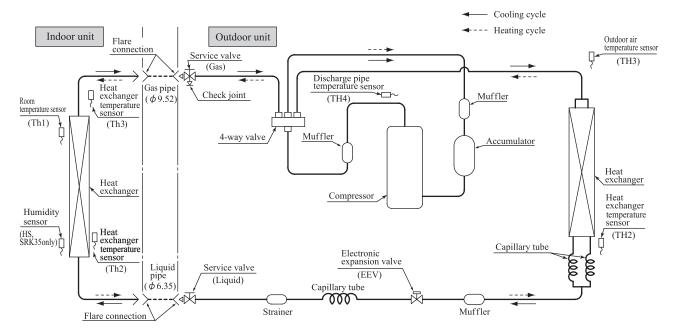




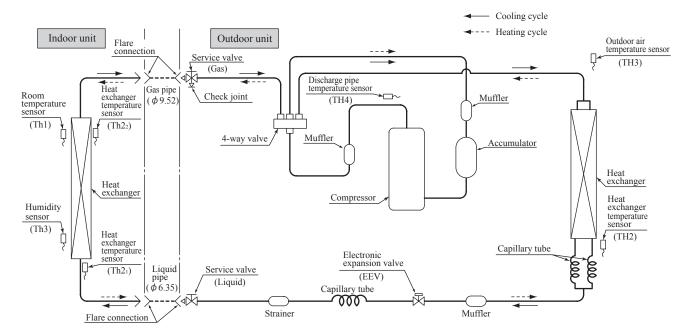


### 6. PIPING SYSTEM

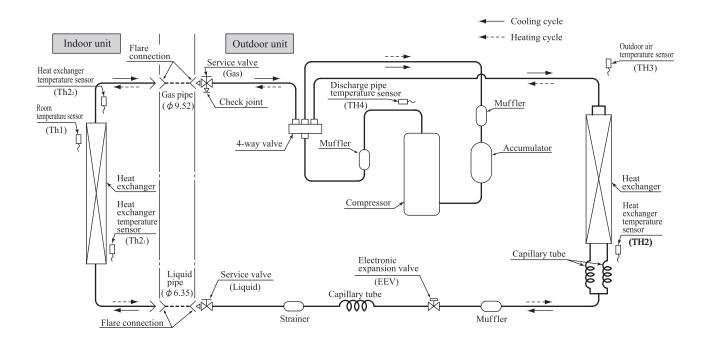
Models SRK20ZS-W, -WB, -WT SRK25ZS-W, -WB, -WT SRK35ZS-W, -WB, -WT



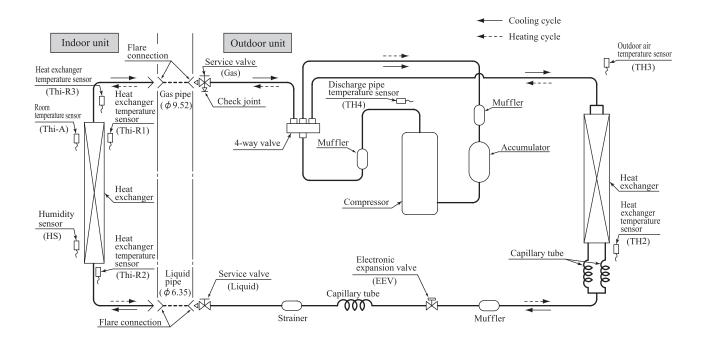
Models SRF25ZS-W, 35ZS-W



### Models SRR25ZS-W, 35ZS-W



Models FDTC25VH1, 35VH1



### 7. RANGE OF USAGE & LIMITAIONS

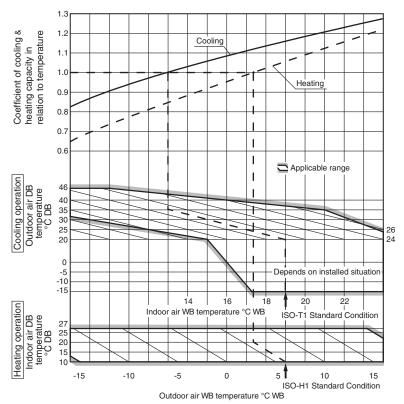
Item	SRK20ZS-W, -WB, -WT SRK25ZS-W, -WB, -WT SRK35ZS-W, -WB, -WT SRF25ZS-W, 35ZS-W SRR25ZS-W, 35ZS-W FDTC25VH1,FDTC35VH1
Indoor return air temperature (Upper, lower limits)	Cooling operation : Approximately 18 to 32°C DB Heating operation : Approximately 10 to 30°C DB (Refer to the selection chart.)
Outdoor air temperature (Upper, lower limits)	Cooling operation : Approximately -15 to $46^{\circ}$ C DB Heating operation : Approximately -15 to $24^{\circ}$ C DB (Refer to the selection chart.)
Refrigerant line (one way) length	Max. 20m
Vertical height difference between outdoor unit and indoor unit	Max. 10m (Outdoor unit is higher.) Max. 10m (Outdoor unit is lower.)
Power source voltage	Rating ±10%
Voltage at starting	Min. 85% of rating
Frequency of ON-OFF cycle	Max. 4 times/h (Inching prevention 10 minutes)
ON and OFF interval	Min. 3 minutes

### Selection chart

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

Net capacity = Capacity shown on specification × Correction factors as follows

### (1) Coefficient of cooling and heating capacity in relation to temperature



### (2) 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 piping length between the indoor and outdoor units.

Piping length [m]	7	10	15	20
Cooling	1.0	0.99	0.975	0.965
Heating	1.0	1.0	1.0	1.0

### (3) Correction relative to frosting on outdoor heat exchanger during heating

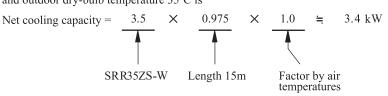
In additions to the foregoing corrections (1), (2) the heating capacity needs to be adjusted also with respect to the frosting on the outdoor heat exchanger.

Air inlet temperature of outdoor unit in °CWB	-15	-10	-9	-7	-5	-3	-1	1	3	5 or more
Adjustment coefficient	0.95	0.95	0.94	0.93	0.91	0.88	0.86	0.87	0.92	1.00

### How to obtain the cooling and heating capacity

-

Example : The net cooling capacity of the model SRR35ZS-W with the piping length of 15m, indoor wet-bulb temperature at 19.0°C and outdoor dry-bulb temperature 35°C is



### 8. CAPACITY TABLES

### (1) Wall mounted type (SRK)

### Models SRK20ZS-W, -WB, -WT

	Outdoor						Indo	or air t	empera	ature					
Air flow	air	21°C	DB	23°C	CDB	26°0	CDB	27°C	DB	28°C	DB	31°C	CDB	33°0	DB
AIT NOW	temperature	14°C	WB	16°C	CWB	18°C	WB	19°C	WB	20°C	WB	22°C	WB	24°C	WB
	°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
	10	2.25	2.11	2.36	2.08	2.45	2.19	2.49	2.17	2.53	2.15	2.60	2.25	2.67	2.20
	12	2.21	2.09	2.32	2.06	2.41	2.18	2.45	2.16	2.50	2.14	2.58	2.24	2.65	2.19
	14	2.17	2.06	2.28	2.04	2.38	2.17	2.42	2.15	2.47	2.12	2.55	2.23	2.62	2.18
	16	2.13	2.02	2.24	2.02	2.34	2.15	2.39	2.13	2.43	2.11	2.52	2.22	2.59	2.18
	18	2.08	1.98	2.19	2.01	2.30	2.14	2.35	2.12	2.40	2.10	2.49	2.21	2.56	2.17
	20	2.04	1.94	2.15	1.99	2.26	2.12	2.31	2.10	2.36	2.08	2.45	2.20	2.53	2.16
	22	1.99	1.89	2.10	1.97	2.22	2.10	2.28	2.09	2.32	2.07	2.42	2.19	2.50	2.14
Hi	24	1.94	1.85	2.05	1.95	2.18	2.07	2.24	2.08	2.28	2.06	2.38	2.18	2.47	2.14
9.3	26	1.90	1.80	2.01	1.91	2.14	2.03	2.20	2.06	2.24	2.04	2.35	2.17	2.43	2.13
(m <sup>3</sup> /min)	28	1.85	1.75	1.96	1.86	2.09	1.99	2.15	2.05	2.20	2.03	2.31	2.15	2.40	2.12
	30	1.79	1.70	1.90	1.81	2.05	1.94	2.11	2.01	2.16	2.01	2.27	2.14	2.36	2.09
	32	1.74	1.65	1.85	1.76	2.00	1.90	2.07	1.96	2.12	2.00	2.23	2.12	2.32	2.08
	34	1.69	1.60	1.80	1.71	1.95	1.85	2.02	1.92	2.07	1.97	2.19	2.08	2.28	2.07
	35	1.66	1.58	1.77	1.68	1.93	1.83	2.00	1.90	2.05	1.94	2.17	2.06	2.26	2.06
	36	1.63	1.55	1.74	1.65	1.90	1.81	1.98	1.88	2.02	1.92	2.15	2.04	2.24	2.05
	38	1.58	1.50	1.68	1.60	1.85	1.76	1.93	1.83	1.98	1.88	2.11	2.00	2.20	2.04
	39	1.55	1.47	1.66	1.57	1.83	1.74	1.91	1.81	1.95	1.85	2.08	1.98	2.18	2.04

		Heating mo	ode (HC)			(kW)
Air flow	Outdoor air temperature		Indoo	or air tempe	rature	
	°CWB	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB
	-15	1.66	1.63	1.59	1.55	1.52
	-10	1.88	1.85	1.82	1.78	1.74
	-5	2.04	2.01	1.97	1.94	1.91
Hi	0	2.13	2.10	2.07	2.04	2.01
10.0	5	2.72	2.69	2.67	2.62	2.58
(m <sup>3</sup> /min)	6	2.76	2.73	2.70	2.67	2.63
	10	2.94	2.91	2.89	2.85	2.82
	15	3.20	3.17	3.14	3.11	3.08
	20	3.43	3.41	3.39	3.35	3.32

### Models SRK25ZS-W, -WB, -WT

Cooling mode

Cooling mode

(kW)

(kW)

(kW)

	Outdoor						Indo	or air t	empera	ature					
A	air	21°C	CDB	23°0	CDB	26°C	CDB	27°C	CDB	28°C	DB	31°C	CDB	33°C	CDB
Air flow	temperature	14°C	CWB	16°C	CWB	18°C	WB	19°C	CWB	20°C	WB	22°C	CWB	24°C	CWB
	°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
	10	2.82	2.45	2.95	2.41	3.06	2.54	3.11	2.51	3.16	2.48	3.26	2.59	3.34	2.52
	12	2.77	2.43	2.90	2.39	3.01	2.52	3.07	2.49	3.12	2.47	3.22	2.58	3.31	2.51
	14	2.71	2.41	2.85	2.37	2.97	2.50	3.03	2.48	3.08	2.45	3.18	2.56	3.28	2.50
	16	2.66	2.38	2.80	2.35	2.92	2.49	2.98	2.46	3.04	2.44	3.15	2.55	3.24	2.49
	18	2.60	2.36	2.74	2.33	2.88	2.47	2.94	2.45	2.99	2.42	3.11	2.54	3.20	2.48
	20	2.55	2.33	2.68	2.30	2.83	2.45	2.89	2.43	2.95	2.40	3.07	2.52	3.17	2.47
	22	2.49	2.31	2.63	2.28	2.78	2.42	2.84	2.41	2.90	2.38	3.02	2.51	3.13	2.45
Hi	24	2.43	2.28	2.57	2.26	2.72	2.40	2.80	2.39	2.85	2.37	2.98	2.49	3.08	2.44
9.9	26	2.37	2.25	2.51	2.23	2.67	2.38	2.74	2.37	2.80	2.35	2.93	2.48	3.04	2.43
(m <sup>3</sup> /min)	28	2.31	2.19	2.44	2.20	2.61	2.36	2.69	2.35	2.75	2.33	2.89	2.46	3.00	2.41
	30	2.24	2.13	2.38	2.17	2.56	2.34	2.64	2.33	2.70	2.31	2.84	2.44	2.95	2.40
	32	2.18	2.07	2.31	2.15	2.50	2.32	2.58	2.31	2.64	2.29	2.79	2.43	2.90	2.38
	34	2.11	2.00	2.25	2.12	2.44	2.29	2.53	2.29	2.59	2.27	2.74	2.41	2.85	2.37
	35	2.08	1.97	2.21	2.10	2.41	2.28	2.50	2.28	2.56	2.26	2.71	2.40	2.83	2.36
	36	2.04	1.94	2.18	2.07	2.38	2.26	2.47	2.27	2.53	2.25	2.69	2.40	2.80	2.36
	38	1.97	1.87	2.11	2.00	2.32	2.20	2.41	2.24	2.47	2.22	2.63	2.38	2.75	2.34
	39	1.94	1.84	2.07	1.97	2.28	2.17	2.38	2.23	2.44	2.21	2.61	2.37	2.72	2.33

		Heating mo	ode (HC)			(kW)
Air flow	Outdoor air temperature		Indoo	or air tempe	rature	
	°CWB	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB
	-15	1.97	1.93	1.88	1.84	1.80
	-10	2.23	2.19	2.16	2.10	2.06
	-5	2.41	2.38	2.33	2.30	2.27
Hi	0	2.53	2.49	2.45	2.42	2.38
11.3	5	3.22	3.19	3.17	3.10	3.06
(m <sup>3</sup> /min)	6	3.27	3.24	3.20	3.16	3.12
	10	3.48	3.45	3.42	3.38	3.34
	15	3.79	3.75	3.73	3.69	3.65
	20	4.07	4.04	4.02	3.97	3.94

### Models SRK35ZS-W -WB, -WT

Cooling mode

	Outdoor						llndo	oor air t	empera	ature					
Air flow	air	21°C	DB	23°0	CDB	26°0	CDB	27°C	DB	28°C	DB	31°C	CDB	33°C	CDB
AITIOW	temperature	14°C	WB	16°C	CWB	18°C	CWB	19°C	WB	20°C	WB	22°C	CWB	24°C	CWB
	°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
	10	3.94	3.19	4.13	3.14	4.28	3.27	4.35	3.22	4.43	3.18	4.56	3.29	4.68	3.20
	12	3.87	3.15	4.06	3.11	4.22	3.24	4.29	3.20	4.37	3.16	4.51	3.27	4.63	3.18
	14	3.80	3.12	3.99	3.07	4.16	3.21	4.24	3.17	4.31	3.14	4.46	3.26	4.59	3.16
	16	3.72	3.08	3.91	3.04	4.09	3.18	4.18	3.15	4.25	3.12	4.40	3.24	4.54	3.15
	18	3.65	3.04	3.84	3.00	4.03	3.16	4.11	3.13	4.19	3.09	4.35	3.21	4.49	3.13
	20	3.57	3.01	3.76	2.97	3.96	3.12	4.05	3.10	4.13	3.06	4.29	3.19	4.43	3.12
	22	3.49	2.96	3.68	2.93	3.89	3.10	3.98	3.07	4.06	3.04	4.23	3.17	4.38	3.10
Hi	24	3.40	2.93	3.59	2.89	3.81	3.07	3.91	3.05	3.99	3.02	4.17	3.15	4.32	3.08
11.3	26	3.32	2.89	3.51	2.86	3.74	3.03	3.84	3.01	3.92	2.98	4.11	3.13	4.26	3.06
(m <sup>3</sup> /min)	28	3.23	2.84	3.42	2.82	3.66	3.00	3.77	2.99	3.85	2.96	4.04	3.11	4.20	3.04
	30	3.14	2.80	3.33	2.78	3.58	2.97	3.70	2.96	3.78	2.93	3.98	3.08	4.13	3.02
	32	3.05	2.75	3.24	2.74	3.50	2.93	3.62	2.92	3.70	2.90	3.91	3.06	4.06	2.99
	34	2.95	2.71	3.14	2.69	3.41	2.90	3.54	2.89	3.62	2.87	3.84	3.03	4.00	2.97
	35	2.91	2.69	3.10	2.67	3.37	2.89	3.50	2.88	3.58	2.86	3.80	3.02	3.96	2.96
	36	2.86	2.67	3.05	2.65	3.33	2.87	3.46	2.87	3.54	2.84	3.76	3.01	3.92	2.95
	38	2.76	2.62	2.95	2.61	3.24	2.83	3.38	2.84	3.46	2.81	3.69	2.98	3.85	2.93
	39	2.71	2.57	2.90	2.59	3.20	2.81	3.33	2.81	3.42	2.79	3.65	2.97	3.81	2.92

		Heating mo	ode (HC)			(kW)
Air flow	Outdoor air temperature		Indoo	or air temper	rature	
	°CWB	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB
	-15	2.46	2.41	2.35	2.30	2.25
	-10	2.79	2.74	2.70	2.63	2.58
	-5	3.02	2.97	2.91	2.88	2.83
Hi	0	3.16	3.12	3.06	3.02	2.98
12.3	5	4.03	3.98	3.96	3.88	3.83
(m <sup>3</sup> /min)	6	4.09	4.04	4.00	3.95	3.90
	10	4.35	4.31	4.28	4.22	4.18
	15	4.73	4.69	4.66	4.61	4.56
	20	5.09	5.05	5.02	4.96	4.92

### (2) Floor standing type

### Model SRF25ZS-W

Cooling r	mode														(kW)	
	Outdoor						Ind	oor air t	empera	ture						
Air flow	oir	21	°CDB	23	°CDB	26	°CDB	27	°CDB	28	°CDB	31	°CDB	33	°CDB	
AII IIOW	temperature	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	
	10	2.82	2.48	2.95	2.44	3.06	2.56	3.11	2.53	3.16	2.50	3.26	2.61	3.34	2.54	
	12	2.77	2.46	2.90	2.42	3.01	2.55	3.07	2.52	3.12	2.49	3.22	2.60	3.31	2.53	
	14	2.71	2.43	2.85	2.40	2.97	2.53	3.03	2.50	3.08	2.47	3.18	2.59	3.28	2.52	
	16	2.66	2.41	2.80	2.37	2.92	2.51	2.98	2.48	3.04	2.46	3.15	2.57	3.24	2.51	
	18	2.60	2.38	2.74	2.35	2.88	2.49	2.94	2.47	2.99	2.44	3.11	2.56	3.20	2.50	
	20	2.55	2.35	2.68	2.33	2.83	2.47	2.89	2.45	2.95	2.42	3.07	2.55	3.17	2.49	
Hi	22	2.49	2.33	2.63	2.30	2.78	2.45	2.84	2.43	2.90	2.41	3.02	2.53	3.13	2.48	
9.0	24	2.43	2.30	2.57	2.27	2.72	2.43	2.80	2.41	2.85	2.39	2.98	2.52	3.08	2.46	
(m <sup>3</sup> /min)	26	2.37	2.25	2.51	2.25	2.67	2.41	2.74	2.39	2.80	2.37	2.93	2.50	3.04	2.45	
	28	2.31	2.19	2.44	2.22	2.61	2.39	2.69	2.37	2.75	2.35	2.89	2.49	3.00	2.44	
	30	2.24	2.13	2.38	2.19	2.56	2.36	2.64	2.35	2.70	2.33	2.84	2.47	2.95	2.42	
	32	2.18	2.07	2.31	2.17	2.50	2.34	2.58	2.33	2.64	2.31	2.79	2.46	2.90	2.41	
	34	2.11	2.00	2.25	2.13	2.44	2.32	2.53	2.31	2.59	2.29	2.74	2.44	2.85	2.39	
	35	2.08	1.97	2.21	2.10	2.41	2.29	2.50	2.30	2.56	2.28	2.71	2.43	2.83	2.39	
	36	2.04	1.94	2.18	2.07	2.38	2.26	2.47	2.29	2.53	2.27	2.69	2.42	2.80	2.38	
	38	1.97	1.87	2.11	2.00	2.32	2.20	2.41	2.27	2.47	2.25	2.63	2.40	2.75	2.36	
	40	1.90	1.81	2.03	1.93	2.25	2.14	2.35	2.23	2.41	2.23	2.58	2.38	2.70	2.35	
	43	1.79	1.70	1.92	1.83	2.15	2.04	2.26	2.15	2.32	2.20	2.49	2.36	2.61	2.32	
	46	1.68	1.59	1.81	1.72	2.05	1.95	2.16	2.05	2.22	2.11	2.40	2.28	2.53	2.29	

Heating r	mode					(kW)
Air flow	Outdoor air temperature		Indoor	air tempe	erature	
	°CWB	16°C DB	18°C DB	20°C DB	22°C DB	24°C DB
	-15	1.78	1.75	1.70	1.67	1.63
	-10	2.02	1.98	1.96	1.91	1.87
	-5	2.19	2.16	2.11	2.09	2.05
Hi	0	2.29	2.26	2.22	2.19	2.16
10.5	5	2.92	2.89	2.87	2.81	2.77
(m <sup>3</sup> /min)	6	2.97	2.93	2.90	2.86	2.83
	10	3.15	3.12	3.10	3.06	3.03
	15	3.43	3.40	3.38	3.34	3.31
	20	3.69	3.66	3.64	3.60	3.57

### Model SRF35ZS-W

Cooling n	node														(kW)	Heatin	g mode					(kW)
	Outdoor								empera								Outdoor air		Indoo	air tempe	erature	
Air flow	air		°CDB		°CDB		°CDB		°CDB		°CDB		°CDB		°CDB	Air flo	w temperature					
	temperature		°CWB		°CWB		°CWB		°CWB		°CWB		°CWB		°CWB		°CWB		18°C DB			
	°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC		-15	2.77	2.71	2.65	2.59	2.53
	10	3.94	3.02	4.13	2.96	4.28	3.06	4.35	3.02	4.43	2.98	4.56	3.05	4.68	2.96		-10	3.13	3.08	3.04	2.96	2.90
	12	3.87	2.98	4.06	2.93	4.22	3.03	4.29	2.99	4.37	2.95	4.51	3.04	4.63	2.94		-5	3.39	3.34	3.28	3.24	3.19
	14	3.80	2.94	3.99	2.90	4.16	3.00	4.24	2.97	4.31	2.93	4.46	3.02	4.59	2.92	Hi	0	3.56	3.51	3.44	3.40	3.35
	16	3.72	2.90	3.91	2.86	4.09	2.98	4.18	2.94	4.25	2.90	4.40	2.99	4.54	2.91	10.7	5	4.53	4.48	4.46	4.37	4.30
i	18	3.65	2.86	3.84	2.82	4.03	2.94	4.11	2.91	4.19	2.88	4.35	2.97	4.49	2.89	(m <sup>3</sup> /m	n) 6	4.61	4.55	4.50	4.44	4.39
	20	3.57	2.82	3.76	2.79	3.96	2.91	4.05	2.89	4.13	2.85	4.29	2.95	4.43	2.86	ľ.	10	4.89	4.85	4.82	4.75	4.70
Hi	22	3.49	2.78	3.68	2.74	3.89	2.88	3.98	2.86	4.06	2.83	4.23	2.93	4.38	2.84		15	5.33	5.28	5.24	5.18	5.14
9.2	24	3.40	2.74	3.59	2.71	3.81	2.85	3.91	2.83	3.99	2.80	4.17	2.90	4.32	2.82		20	5.72	5.68	5.65	5.59	5.54
m³/min)	26	3.32	2.69	3.51	2.66	3.74	2.82	3.84	2.80	3.92	2.77	4.11	2.87	4.26	2.80							
	28	3.23	2.65	3.42	2.62	3.66	2.78	3.77	2.77	3.85	2.74	4.04	2.85	4.20	2.78	Notes(	) These data					
	30	3.14	2.60	3.33	2.58	3.58	2.75	3.70	2.74	3.78	2.71	3.98	2.83	4.13	2.76		Depending				/ be range	s where the
	32	3.05	2.56	3.24	2.54	3.50	2.71	3.62	2.70	3.70	2.68	3.91	2.80	4.06	2.74		operation is These data				ration from	uonou of a
	34	2.95	2.52	3.14	2.50	3.41	2.68	3.54	2.67	3.62	2.65	3.84	2.78	4.00	2.72		compresso		Case whe	e lite ope	ration neq	uency or a
	35	2.91	2.49	3.10	2.48	3.37	2.66	3.50	2.66	3.58	2.63	3.80	2.76	3.96	2.70	(2	) Capacities		on the follo	wing cond	itions.	
	36	2.86	2.47	3.05	2.45	3.33	2.64	3.46	2.64	3.54	2.62	3.76	2.75	3.92	2.69		Correspond			length :5m	ı	
	38	2.76	2.42	2.95	2.41	3.24	2.60	3.38	2.61	3.46	2.59	3.69	2.72	3.85	2.67		Level differe					
	40	2.66	2.37	2.85	2.36	3.15	2.57	3.29	2.57	3.37	2.55	3.61	2.70	3.78	2.65	(3	) Symbols an TC : Total c					
	43	2.51	2.30	2.69	2.30	3.01	2.51	3.16	2.52	3.24	2.50	3.49	2.66	3.66	2.61		SHC : Sens			0		
	46	2.35	2.23	2.53	2.23	2.87	2.45	3.03	2.47	3.11	2.45	3.36	2.61	3.54	2.57		HC : Heatin			.,		

### (3) Ceiling concealed type (SRR)

### Model SRR25ZS-W

Model	SRR25	5ZS-	W							Coolin	g mode	•			(kW)
	Outdoor						Indo	oor air t	empera	ature					
Air flow	air	21°C	DB	23°C	DB	26°0	CDB	27°C	CDB	28°0	CDB	31°(	CDB	33°C	DB
AITTIOW	temperature	14°C	WB	16°C	WB	18°C	CWB	19°C	CWB	20°C	CWB	22°C	CWB	24°C	WB
	°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
	10	2.82	2.34	2.95	2.31	3.06	2.41	3.11	2.38	3.16	2.35	3.26	2.43	3.34	2.37
	12	2.77	2.32	2.90	2.28	3.01	2.39	3.07	2.36	3.12	2.34	3.22	2.42	3.31	2.36
	14	2.71	2.29	2.85	2.26	2.97	2.37	3.03	2.34	3.08	2.32	3.18	2.41	3.28	2.35
	16	2.66	2.27	2.80	2.24	2.92	2.35	2.98	2.33	3.04	2.30	3.15	2.40	3.24	2.34
	18	2.60	2.24	2.74	2.21	2.88	2.33	2.94	2.31	2.99	2.28	3.11	2.38	3.20	2.32
	20	2.55	2.22	2.68	2.19	2.83	2.31	2.89	2.29	2.95	2.27	3.07	2.37	3.17	2.31
	22	2.49	2.19	2.63	2.16	2.78	2.29	2.84	2.27	2.90	2.25	3.02	2.35	3.13	2.30
	24	2.43	2.16	2.57	2.14	2.72	2.27	2.80	2.25	2.85	2.23	2.98	2.34	3.08	2.29
Hi	26	2.37	2.12	2.51	2.11	2.67	2.25	2.74	2.23	2.80	2.21	2.93	2.33	3.04	2.27
9.5	28	2.31	2.10	2.44	2.07	2.61	2.22	2.69	2.21	2.75	2.19	2.89	2.31	3.00	2.26
(m <sup>3</sup> /min)	30	2.24	2.07	2.38	2.05	2.56	2.20	2.64	2.19	2.70	2.17	2.84	2.29	2.95	2.25
	32	2.18	2.04	2.31	2.02	2.50	2.18	2.58	2.17	2.64	2.15	2.79	2.28	2.90	2.23
	34	2.11	2.00	2.25	2.00	2.44	2.16	2.53	2.15	2.59	2.13	2.74	2.26	2.85	2.22
	35	2.08	1.97	2.21	1.98	2.41	2.14	2.50	2.14	2.56	2.12	2.71	2.25	2.83	2.21
	36	2.04	1.94	2.18	1.96	2.38	2.13	2.47	2.13	2.53	2.11	2.69	2.24	2.80	2.20
	38	1.97	1.87	2.11	1.94	2.32	2.11	2.41	2.10	2.47	2.09	2.63	2.22	2.75	2.18
	40	1.90	1.81	2.03	1.90	2.25	2.07	2.35	2.08	2.41	2.07	2.58	2.20	2.70	2.17
	43	1.79	1.70	1.92	1.83	2.15	2.03	2.26	2.04	2.32	2.02	2.49	2.17	2.61	2.14
	46	1.68	1.59	1.81	1.72	2.05	1.95	2.16	2.00	2.22	1.99	2.40	2.14	2.53	2.11

		Heating mo	ode (HC)			(kW)
Air flow	Outdoor air temperature		Indoo	or air tempei	rature	
	°CWB	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB
	-15	1.78	1.75	1.70	1.67	1.63
	-10	2.02	1.98	1.96	1.91	1.87
	-5	2.19	2.16	2.11	2.09	2.05
Hi	0	2.29	2.26	2.22	2.19	2.16
10.0	5	2.92	2.89	2.87	2.81	2.77
(m <sup>3</sup> /min)	6	2.97	2.93	2.90	2.86	2.83
	10	3.15	3.12	3.10	3.06	3.03
	15	3.43	3.40	3.38	3.34	3.31
	20	3.69	3.66	3.64	3.60	3.57

### Model SRR35ZS-W

Model	SRR35	5ZS-	w							Coolin	g mode	9			(kW)
	Outdoor						Indo	or air t	empera	ature					
Air flow	air	21°C	DB	23°0	CDB	26°(	DB	27°(	CDB	28°0	CDB	31°C	CDB	33°0	DB
AIF HOW	temperature	14°C	WB	16°C	CWB	18°C	WB	19°C	CWB	20°C	CWB	22°C	WB	24°C	WB
	°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
	10	3.94	2.93	4.13	2.87	4.28	2.96	4.35	2.92	4.43	2.88	4.56	2.94	4.68	2.84
	12	3.87	2.89	4.06	2.85	4.22	2.93	4.29	2.90	4.37	2.85	4.51	2.92	4.63	2.82
	14	3.80	2.85	3.99	2.81	4.16	2.91	4.24	2.87	4.31	2.83	4.46	2.90	4.59	2.79
	16	3.72	2.81	3.91	2.77	4.09	2.87	4.18	2.84	4.25	2.80	4.40	2.88	4.54	2.78
	18	3.65	2.77	3.84	2.74	4.03	2.84	4.11	2.81	4.19	2.78	4.35	2.86	4.49	2.76
	20	3.57	2.73	3.76	2.69	3.96	2.81	4.05	2.78	4.13	2.75	4.29	2.82	4.43	2.75
	22	3.49	2.69	3.68	2.66	3.89	2.78	3.98	2.76	4.06	2.72	4.23	2.80	4.38	2.73
	24	3.40	2.64	3.59	2.61	3.81	2.74	3.91	2.72	3.99	2.69	4.17	2.79	4.32	2.71
Hi	26	3.32	2.60	3.51	2.57	3.74	2.71	3.84	2.69	3.92	2.66	4.11	2.76	4.26	2.69
10.0	28	3.23	2.55	3.42	2.53	3.66	2.68	3.77	2.66	3.85	2.63	4.04	2.74	4.20	2.67
(m <sup>3</sup> /min)	30	3.14	2.51	3.33	2.49	3.58	2.64	3.70	2.63	3.78	2.60	3.98	2.71	4.13	2.64
	32	3.05	2.46	3.24	2.44	3.50	2.60	3.62	2.60	3.70	2.57	3.91	2.68	4.06	2.62
	34	2.95	2.42	3.14	2.40	3.41	2.57	3.54	2.56	3.62	2.54	3.84	2.66	4.00	2.60
	35	2.91	2.39	3.10	2.38	3.37	2.55	3.50	2.54	3.58	2.52	3.80	2.64	3.96	2.59
	36	2.86	2.36	3.05	2.36	3.33	2.53	3.46	2.53	3.54	2.50	3.76	2.63	3.92	2.57
	38	2.76	2.32	2.95	2.30	3.24	2.49	3.38	2.49	3.46	2.47	3.69	2.60	3.85	2.53
	40	2.66	2.27	2.85	2.26	3.15	2.45	3.29	2.45	3.37	2.43	3.61	2.56	3.78	2.51
	43	2.51	2.20	2.69	2.19	3.01	2.39	3.16	2.40	3.24	2.38	3.49	2.52	3.66	2.48
	46	2.35	2.12	2.53	2.12	2.87	2.33	3.03	2.35	3.11	2.33	3.36	2.48	3.54	2.44

				(kW)		
Air flow	Outdoor air temperature		Indoc	or air temper	rature	
	°CWB	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB
	-15	2.58	2.53	2.47	2.42	2.36
	-10	2.92	2.87	2.83	2.76	2.70
	-5	3.17	3.12	3.06	3.02	2.97
Hi	0	3.32	3.27	3.21	3.18	3.13
10.5	5	4.23	4.18	4.16	4.07	4.02
(m <sup>3</sup> /min)	6	4.30	4.25	4.20	4.15	4.10
	10	4.57	4.52	4.49	4.43	4.39
	15	4.97	4.93	4.89	4.84	4.79
	20	5.34	5.30	5.27	5.21	5.17

Notes(1) These data show average statuses. 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 reserved.

These data show the case where the operation in-fixed. (2) Capacities are based on the following conditions. Corresponding refrigerant piping length :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) 4-way ceiling cassette type (FDTC)

### Model FDTC25VH1

Model	FDTC2	25VI	-11							Coolin	g mode	•			(kW)
	Outdoor						Indo	or air t	empera	ature					
Air flow	air	21°C	DB	23°C	CDB	26°0	CDB	27°C	DB	28°0	DB	31°0	CDB	33°C	CDB
AITTIOW	temperature	14°C	WB	16°C	CWB	18°C	CWB	19°C	WB	20°C	WB	22°C	CWB	24°C	CWB
	°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
	10	2.82	2.40	2.95	2.36	3.06	2.47	3.11	2.44	3.16	2.41	3.26	2.51	3.34	2.44
	12	2.77	2.37	2.90	2.34	3.01	2.45	3.07	2.43	3.12	2.40	3.22	2.50	3.31	2.43
	14	2.71	2.35	2.85	2.31	2.97	2.43	3.03	2.41	3.08	2.38	3.18	2.48	3.28	2.42
	16	2.66	2.32	2.80	2.29	2.92	2.41	2.98	2.39	3.04	2.37	3.15	2.47	3.24	2.41
	18	2.60	2.30	2.74	2.27	2.88	2.39	2.94	2.37	2.99	2.35	3.11	2.46	3.20	2.40
	20	2.55	2.27	2.68	2.24	2.83	2.37	2.89	2.35	2.95	2.33	3.07	2.44	3.17	2.38
	22	2.49	2.24	2.63	2.22	2.78	2.35	2.84	2.33	2.90	2.31	3.02	2.43	3.13	2.37
	24	2.43	2.21	2.57	2.19	2.72	2.33	2.80	2.31	2.85	2.29	2.98	2.41	3.08	2.36
Hi	26	2.37	2.19	2.51	2.16	2.67	2.31	2.74	2.30	2.80	2.27	2.93	2.39	3.04	2.34
8.5	28	2.31	2.16	2.44	2.14	2.61	2.29	2.69	2.28	2.75	2.26	2.89	2.38	3.00	2.33
(m <sup>3</sup> /min)	30	2.24	2.13	2.38	2.11	2.56	2.27	2.64	2.26	2.70	2.24	2.84	2.36	2.95	2.32
	32	2.18	2.07	2.31	2.08	2.50	2.24	2.58	2.23	2.64	2.22	2.79	2.35	2.90	2.30
	34	2.11	2.00	2.25	2.05	2.44	2.22	2.53	2.21	2.59	2.20	2.74	2.33	2.85	2.29
	35	2.08	1.97	2.21	2.04	2.41	2.21	2.50	2.20	2.56	2.19	2.71	2.32	2.83	2.28
	36	2.04	1.94	2.18	2.03	2.38	2.20	2.47	2.19	2.53	2.17	2.69	2.31	2.80	2.27
	38	1.97	1.87	2.11	2.00	2.32	2.17	2.41	2.17	2.47	2.15	2.63	2.29	2.75	2.25
	40	1.90	1.81	2.03	1.93	2.25	2.14	2.35	2.15	2.41	2.13	2.58	2.28	2.70	2.24
	43	1.79	1.70	1.92	1.83	2.15	2.04	2.26	2.11	2.32	2.10	2.49	2.25	2.61	2.21
	46	1.68	1.59	1.81	1.72	2.05	1.95	2.16	2.05	2.22	2.06	2.40	2.22	2.53	2.19

		Heating mo	ode (HC)			(kW)
Air flow	Outdoor air temperature		Indoo	or air tempe	rature	
	°CWB	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB
	-15	1.78	1.75	1.70	1.67	1.63
	-10	2.02	1.98	1.96	1.91	1.87
	-5	2.19	2.16	2.11	2.09	2.05
Hi	0	2.29	2.26	2.22	2.19	2.16
9.5	5	2.92	2.89	2.87	2.81	2.77
(m <sup>3</sup> /min)	6	2.97	2.93	2.90	2.86	2.83
	10	3.15	3.12	3.10	3.06	3.03
	15	3.43	3.40	3.38	3.34	3.31
	20	3.69	3.66	3.64	3.60	3.57

### Model FDTC35VH1

Model	<b>FDTC</b> 3	35VI	-11							Coolin	g mode	e			(kW)
	Outdoor						Indo	or air t	empera	ature					
Air flow	air	21°C	CDB	23°0	CDB	26°0	CDB	27°C	DB	28°0	DB	31°C	CDB	33°C	CDB
AIF HOW	temperature	14°C	CWB	16°C	CWB	18°C	WB	19°C	WB	20°C	WB	22°C	CWB	24°C	CWB
	°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
	10	3.94	3.00	4.13	2.94	4.28	3.04	4.35	3.00	4.43	2.95	4.56	3.02	4.68	2.93
	12	3.87	2.96	4.06	2.91	4.22	3.01	4.29	2.97	4.37	2.93	4.51	3.01	4.63	2.91
	14	3.80	2.92	3.99	2.87	4.16	2.98	4.24	2.94	4.31	2.90	4.46	2.99	4.59	2.89
	16	3.72	2.88	3.91	2.84	4.09	2.95	4.18	2.92	4.25	2.88	4.40	2.97	4.54	2.88
	18	3.65	2.84	3.84	2.80	4.03	2.92	4.11	2.89	4.19	2.86	4.35	2.94	4.49	2.86
	20	3.57	2.80	3.76	2.76	3.96	2.89	4.05	2.86	4.13	2.83	4.29	2.92	4.43	2.84
	22	3.49	2.76	3.68	2.73	3.89	2.86	3.98	2.83	4.06	2.80	4.23	2.90	4.38	2.82
	24	3.40	2.71	3.59	2.68	3.81	2.83	3.91	2.80	3.99	2.77	4.17	2.88	4.32	2.79
Hi	26	3.32	2.67	3.51	2.64	3.74	2.79	3.84	2.78	3.92	2.75	4.11	2.86	4.26	2.77
9.0	28	3.23	2.62	3.42	2.60	3.66	2.76	3.77	2.74	3.85	2.71	4.04	2.82	4.20	2.75
(m <sup>3</sup> /min)	30	3.14	2.58	3.33	2.56	3.58	2.72	3.70	2.71	3.78	2.69	3.98	2.79	4.13	2.73
	32	3.05	2.54	3.24	2.51	3.50	2.69	3.62	2.68	3.70	2.66	3.91	2.77	4.06	2.71
	34	2.95	2.49	3.14	2.47	3.41	2.65	3.54	2.65	3.62	2.62	3.84	2.74	4.00	2.69
	35	2.91	2.47	3.10	2.45	3.37	2.63	3.50	2.63	3.58	2.61	3.80	2.73	3.96	2.67
	36	2.86	2.45	3.05	2.43	3.33	2.62	3.46	2.61	3.54	2.59	3.76	2.72	3.92	2.66
	38	2.76	2.40	2.95	2.39	3.24	2.58	3.38	2.58	3.46	2.56	3.69	2.69	3.85	2.64
	40	2.66	2.35	2.85	2.34	3.15	2.54	3.29	2.55	3.37	2.53	3.61	2.67	3.78	2.62
	43	2.51	2.28	2.69	2.27	3.01	2.48	3.16	2.49	3.24	2.47	3.49	2.62	3.66	2.58
	46	2.35	2.20	2.53	2.20	2.87	2.42	3.03	2.44	3.11	2.42	3.36	2.58	3.54	2.54

		Heating mo	de (HC)			(kW)
Air flow	Outdoor air temperature		Indoc	or air tempe	rature	
	°CWB	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB
	-15	2.61	2.56	2.50	2.45	2.39
	-10	2.96	2.91	2.87	2.79	2.74
	-5	3.20	3.16	3.09	3.06	3.01
Hi	0	3.36	3.31	3.25	3.21	3.17
10.0	5	4.28	4.23	4.21	4.12	4.07
(m <sup>3</sup> /min)	6	4.35	4.30	4.25	4.20	4.15
	10	4.62	4.58	4.55	4.49	4.44
	15	5.03	4.99	4.95	4.90	4.85
	20	5.41	5.36	5.34	5.28	5.23

Notes(1) These data show average statuses. 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

These data show the case where the following conditions. (2) Capacities are based on the following conditions. Corresponding refrigerant piping length :5m Level difference of Zero. (3) Symbols are as follows. TC : Total cooling capacity (kW) SHC : Sensible heat capacity (kW) HC : Heating capacity (kW)

### 9. APPLICATION DATA

### 9.1 Installation of indoor unit

(1) Wall mounted type (SRK)

RLF012A105 🕅

Models SRK20ZS-W, -WB, -WT

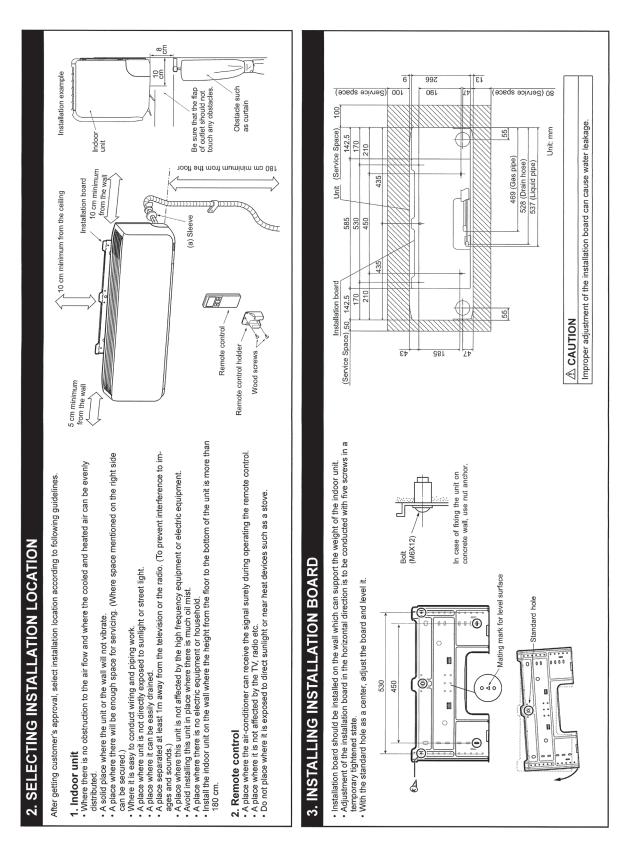
SRK25ZS-W, -WB, -WT

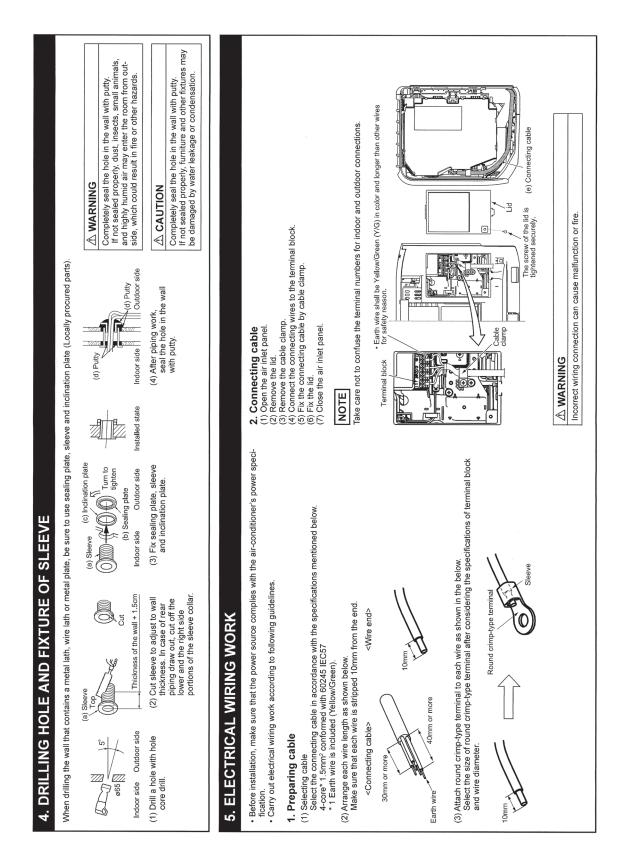
SRK35ZS-W, -WB, -WT

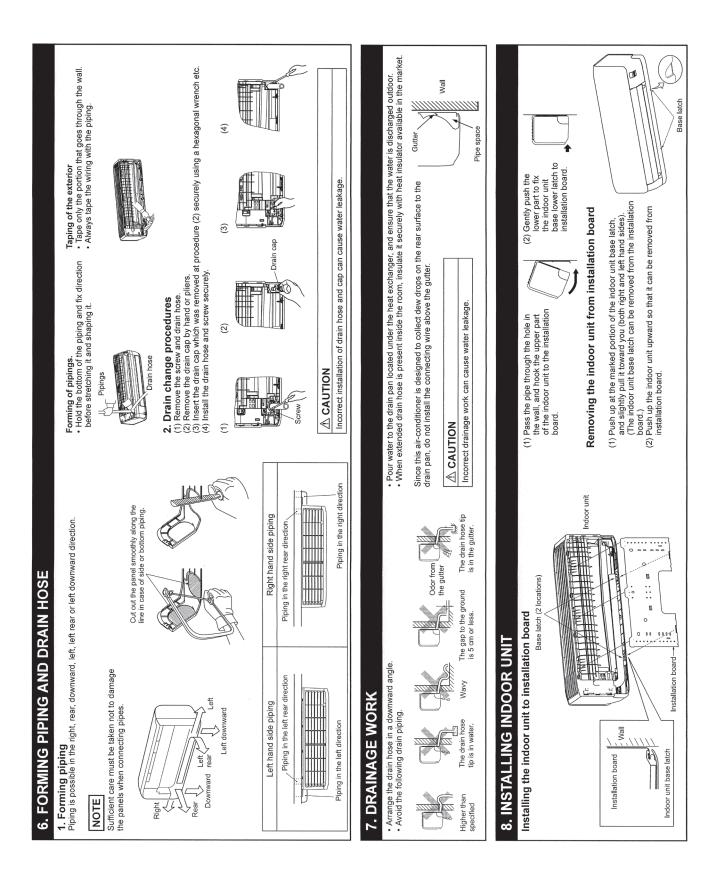
) page 113.	Model SRK20,25,35,50ZS R32/R410A REFRIGERANT USED
<ul> <li>Before installation, read the "SAFETY PRECAUTIONS" carefully and strictly follow it during the installate.</li> <li>The precautionary items mentioned below are distinguished into two levels, <u>(MWARNING)</u> and <u>(MWARNING)</u> and <u>(MWARNING)</u>.</li> <li>Be sure to explain the operating methods as well as the maintenance methods of this equipment to the user another of protect sources injury.</li> <li>Be sure to explain the operating methods as well as the maintenance methods of this equipment to the user sources and use the user's manual.</li> <li>Be sure to keep the installation manual together with user's manual.</li> <li>Be sure to keep the installation manual together with user's manual at a place where it is easily accessibility or property damage.</li> </ul>	pleting the installation. If unusual methods of this equipment to the a place where it is easily accessi-
<ul> <li>Beaute configuration by the complexity in according party of work and market in the installation marks.</li> <li>Beaute considing party of work and means the complexity in according any provide and means pressure suit installed mark in a market of the study with a market and any one and any any and any and any any any and any any any and any any and any any any any and any any any and any any any any and any any any and any any any any any any any any any any</li></ul>	npressor before closing ration and service valves are anomalous high pressure result- be produced. electrician, strictly in ac- clons. reaker of appropriate ca- current. Absence of appropriate electrician, strictly in ac- constant. Absence of appropriate electrician, strictly in ac- tions. the of installation, mainte- ter of installation, mainte- constant. A due to poor connection, insuf- setup condition yourself. Fire of burst. In ont touch any internal fire. ource by means of a cir- ileast 3mm. electric shock or fire.
be sure to tighten the thate huts to spectried torque using the torque wrench. Tightening flare nuts with excess torque can cause burst and refrigerant leakage after a long period.	

					UTION			
• • • • •	<ul> <li>Take care when carrying the unit by hand.</li> <li>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.</li> <li>Do not install the outdoor unit in a location where insects a carr inhabit.</li> <li>Do not install the outdoor unit in a location where insects a sonal injury. Instruct the user to keep the surroundings clean.</li> <li>If the outdoor unit is installed at height, make sure that there for installation, maintenance and service.</li> <li>If the outdoor unit is installed at height, make sure that there for installation, maintenance and service.</li> <li>In the location where neighbours not installation the unit.</li> <li>Do not installation maintenance and service.</li> <li>If the outdoor unit is installed at a location where neighbours noise or air generating from the unit.</li> <li>Do not install the unit near the location where neighbours noise or air generating from the unit.</li> <li>Do not install the unit close to the equipments that generate that there that neight can cause and/or high-harmonic waves.</li> <li>Do not install the unit close to the equipments that generate that the cause corrosion of heat exchanger and damage to plastic parts.</li> <li>Do not install the unit close to the equipments that generate the transes and/or high-harmonic waves.</li> <li>Equipment scan also affect the system, and cause and breate munication equipments can also affect medical equipment and telecommunication equipment on the system, and cause and/or high-harmonic waves.</li> </ul>	the unit by he can restrapt the carried of the carried of the strapt of the other the electrican metric the electrican applied at height resenal injury due carried and servi resenant and cause arr the locati on the unit. The and cause are the locati on the and cause are the locati on the and cause the asso the asso the equipment ar cal equipment ar	and use catigor t, m inpr inpr inpr inpr inpr inpr inpr inpr	by two or more persons. the carry handle. on where insects and small animals rts and cause damage resulting in fire or per- clean. alling from the height. where neighbours are bothered by where neighbours are bothered by it is directly exposed to corrosive abreeze or salty atmosphere. to plastic parts. nents that generate electromagnetic nents that generate electromagnetic dical high frequency equipments and telecom- se malfunctions and breakdowns.	<ul> <li>Do not install the unit in the locations where: <ul> <li>There are heat sources nearby.</li> <li>There is any obstacle which can prevent smooth air circulation from inlet and outlet side of the unit.</li> <li>There is any obstacle which can prevent smooth air circulation from inlet and outlet side of the unit.</li> <li>There is any obstacle which can prevent smooth air circulation from inlet and outlet side of the unit.</li> <li>There is any obstacle which can harm the unit, will generate or accumulate.</li> <li>Chemical substances like ammonia (organic fertilizer), calcium chloride (snow melting agent) and acid substances like ammonia (organic fertilizer), calcium chloride (snow melting agent) and acid substances like ammonia (organic fertilizer), calcium chloride (snow melting agent) and side for shared properly.</li> <li>T' set or radio receiver is paced within fm.</li> <li>Height above sea level is more than 1000m.</li> <li>To set or radio receiver is paced within fm.</li> <li>Height above sea level is more than 1000m.</li> <li>Dispose of all packing materials properly.</li> <li>Dispose of all packing materials properly damage of components, unit malfunction and fire.</li> <li>Dispose of all packing materials properly.</li> <li>Dispose of all packing materials properly.</li> <li>Do not put anything on the outdoor unit.</li> <li>Object may fall causing properly damage or personal injury.</li> <li>Reep the polybag away from children to avoid the risk of suffocation.</li> <li>Do not put anything on the outdoor unit.</li> <li>Object may fall causing properly damage or personal injury.</li> <li>Do not put anything on the outdoor unit.</li> <li>Do not put anything on the outdoor unit.</li> <li>Do not touch any refrigerant pipes when the system is in operation.</li> <li>Diring operation the refrigerant pipe with your hands. When the system is in operation.</li> <li>Diring poperation the refrigerant pipes when the system is in operation.</li> <li>Diring poperatin the local codes and are gulations.</li> <li< td=""><td>Iocations where: unlight. unlight. ia (organic fertilizer), calcium in harm the unit, will generate in property. within fm. in 1000m. in, consion and damage of co in, consion and anage of co in courted on the intervention of the co intervention of the pow and regulations.</td><td>om inlet and outlet side of the chloride (snow melting agen or accumulate. mponents, unit malfunction an mponents, unit malfunction an injury. on. ing fin can cause burn. ing fin can cause burn. an the system is in opera tremely cold depending on th (hot/cold). er source wiring in ac</td><td>op op .</td></li<></ul></li></ul>	Iocations where: unlight. unlight. ia (organic fertilizer), calcium in harm the unit, will generate in property. within fm. in 1000m. in, consion and damage of co in, consion and anage of co in courted on the intervention of the co intervention of the pow and regulations.	om inlet and outlet side of the chloride (snow melting agen or accumulate. mponents, unit malfunction an mponents, unit malfunction an injury. on. ing fin can cause burn. ing fin can cause burn. an the system is in opera tremely cold depending on th (hot/cold). er source wiring in ac	op op .
	1. ACCESSORIES AND TOOL	ND TOOL	လ					
	Ctondout				I ocally proclined parts	Tools for	Tools for installation Work	Г
		accessories (si			(a) Sleeve (1pc)	Plus headed driver	Hole core drill (65mm in diameter)	
	(1) Installation board	1pc		(6) Batteries [R03 (AAA, Micro) 1.5V]	(b) Sealing plate (1pc) (c) Inclination plate (1pc)	Knife	Wrench key (Hexagon) [4mm]	
	(2) Remote control	1pc		(7) Air-cleaning filters	(d) Putty	Saw	Flaring tool set*	
	(3) Remote control holder	1nc		(8) Eilter holders	(e) Connecting cable	Tape measure	Gas leak detector*	
		<u>}</u>			(f) Drain hose (extension hose)	Iorque wrench [(14.0-62.0N·m (1.4-6.2kaf·m))	Pipe bender	

					and the second	and the second strates and		Activities March 1 October 1 International			Γ
L	Standard	ccessorie	idns) s	plied	Standard accessories (supplied with indoor unit)			Locally procured parts	Tools fo	Tools for installation Work	
		8		╞		00		(a) Sleeve (1pc)	Plus headed driver	Hole core drill (65mm in diameter)	
Ξ	<ol> <li>Installation board</li> </ol>		1pc	(6) Ba	(6) Batteries [R03 (AAA, Micro) 1.5V]	: :5V]	2pcs	(b) Sealing plate (1pc)	Knifa	Mrench key (Hevadon) [4mm]	
				+			T	(c) Inclination plate (1pc)			
6	(2) Remote control		1pc (	(7) Aii	; (7) Air-cleaning filters		V 2pcs	(d) Putty	Saw	Flaring tool set*	
		la	T					(e) Connecting cable	Tape measure	Gas leak detector*	
ю́	(3) Remote control holder	Ę	1pc	(8) Fil	(8) Filter holders	Contraction 2 pcs	2pcs	(f) Drain hose (extension hose)	Torque wrench	. Pipe bender	
		}		-				. Piping cover	(14.0-62.0N·m (1.4-6.2kgt·m		
(4)	(4) [Tapping screws	ð	5pcs (	30 Ins	5pcs [(9) Insulation (#486 50 X 100 t3) 7 1pc	) t3) 13)	1pc	(g) (for insulation of connection piping)	Plier	Gauge for projection adjustment	
								Clamp and screw (for finishing		(Used when trare is made by using	
í	Wood screws							(III) (work)	Pipe cutter	conventional tiare tool)	_
c)	(5) (for remote control holder ø3.5 X 16mm)	Zpcs	zpcs					(i) Electrical tape	* Des	* Designed specifically for R32 or R410A	4









# 1. Preparation of connecting pipe

## 1.1. Selecting connecting pipe

ng table	Moc
following	5/35
o the	6106
ig to	N X
accordir	Model SRK20/25/35
pipe	-
ect connecting pipe according to the fol	
Selec	

	Model SRK20/25/35	Model SRK50
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 77.160.30).

### 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

- Take out farm on the service valves of indoor unit and engage them onto connecting pipes.
   Take the pipes according to table and figure show below.
   Flare the pipes according to table and figure show 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 dimension B with a flare adjustment

gauge.

	•		4	5		(2)	(3)		•	•	_
4-47 4-4	utcn) type]	Conventional		1.0-1.5					$\langle \rangle$	5	
	B [Kigid (clutch) type]	R32 or R410A		0-0.5				Liquid side	UT V	(Do not turn)	
	Copper pipe	outer diameter	ø6.35	ø9.52	ø12.7			Liqu Gas		(Do ne	
	8				<u>)</u> .	2	<ol> <li>Connect pipes on both liquid and gas sides.</li> <li>Tighten nuts to specified torque shown in the table below.</li> </ol>	Tightening torque (N·m)	14-18	34-42	10.01
	Δ	c	9.1	13.2	16.6		r liquid ar ed torque				
	Copper pipe	outer diameter	ø6.35	ø9.52	ø12.7	2.2 Connecting pines	<ol> <li>Connect pipes on both liquid and gas sides.</li> <li>Tighten nuts to specified torque shown in the</li> </ol>	Service valve size (mm)	ø6.35 (1/4")	ø9.52 (3/8")	
- 4	¢ -					2.2 Conne	(1) Conne (2) Tightei	Service	8	8	

- Heating and condensation prevention
   Dress the connecting pipes (both liquid and gas pipes) with insulation to prevent it from heating and dew condensation.
  - 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 in
  - sulation pad (standard accessory provided with indoor unit).
    - (4) Connecting cable Liquid pipe (4) Wrap the connecting pipes, connecting cable and drain hose with the tape. Insulation pad (C) ape (2)



Tape



Q

NOTE

Locations where relative humidity exceeds 70%, both liquid and gas pipes need to be dressed with 20mm or

thicker heat insulation materials

### **△** CAUTION

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. Improper insulation can cause condensate(water) formation during cooling operation.

### Finishing 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.
- <u>.</u> 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. Install the service cover securely. Water may enter the unit if service cover not installed properly, resulting in unit malfunction and failure.

Pipe assembly

0 0 (h)Clamp

## ▲ WARNING (only for R32)

Flared joint outside Seal hole with putty Wall hole cover R Wall Indoor unit To avoid the risk of fire or explosion, the flared connection · Reusable mechanical connectors and flared joints are not must/shall be installed outdoors. allowed indoors. **CAUTION** 

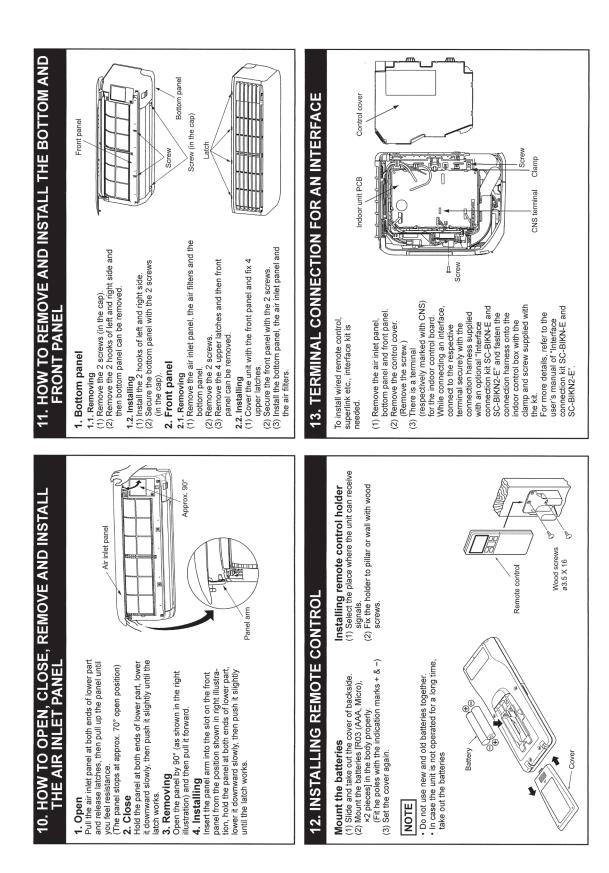
Make sure that the connecting pipes do not touch the components within the unit. If pipes touch the internal components, it may generate abnormal sounds and/or vibrations.

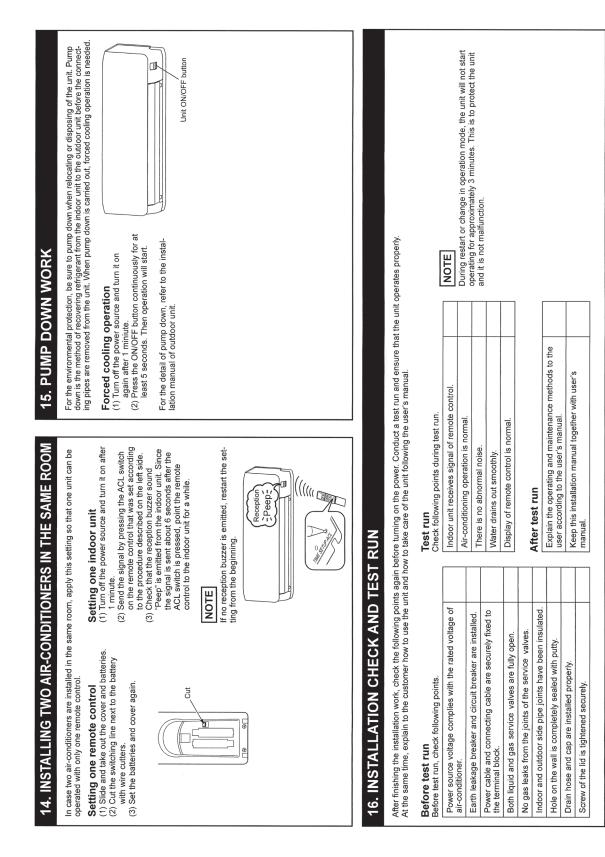
Do not apply refrigerating machine oil to the flared surface. It can cause refrigerant leakage.
 Do not apply excess torque to the flared nuts. The flared nuts may crack resulting in refrigerant leakage.

49-61

ø12.7 (1/2")

**△** CAUTION





Floor standing type (SRF) (2) Models SRF25ZS-W, 35ZS-W In Any terming packing methods can cause personal injury as it contains and wouch and explore out and packing methods of such and packing methods of such and packing methods of such and packing methods of the plastic wrapper away from children and to dispose after lay.
• Excinitizatiation work, be example or instruction that any terminal methods of the plastic wrapper away from children and to dispose after lay.
• Excinitizatiation work, be example or instruction that any excinition of the plastic wrapper away from children and to dispose after lay.
• Excinitizatiation work, be example.
• Be sure to insulate the refrigerant pipes so as not to condense the instribution through the arc and cause condensation. Which can lead to insultion and mark wraiting the arc and the work into the rough the arc and those on the celling or drying one and the round in the room.
• When packing the arc-conditioner or peration (cooling or drying to operation) the mark mark may backlow in accordance with the possibility that drait water may backlow in accordance with the opening port such as above, so set up the opening port such as incorporate the ark in the room maps in the room maps.
• The incorporate the ark induction or person that may addition, just as above, so set up the opening port such as incorporate the ark induction in addition. It are above, so set up the opening presence attruction with the induction or peristic presence attruction with the induction of the high the induction or peristic presence attruction or the high the induction or presence attruction or the high the induction or peristic presence attruction or the high the induction or presence attruction or the high the induction or presence attruction or the high the induction or peristic presence attruction or the high the induction or approate the induction or the Do not use any materials other than a fuse with the correct rating in the location where fuses are to be used.
 Connecting the circuit with copper wire or other metal thread can cause unit Since the indoor unit is not waterproof, it can cause electric shocks and fire. equipments and telecommunication equipments can affect the system, and cause malfunctions and breakdowns. The system can also affect medical It can cause malturction or deformation of the remote control. • Do not use the unit for special purposes such as storing foods, cooling precision instruments and preservation of animals, plants or Corrosive gas can cause corrosion of heat exchanger, breakage of plastic parts and etc. And combustible gas can cause fire. • Do not use the indoor unit at the place where water splashes may Do not install nor use the system close to the equipment that generates electromagnetic fields or high frequency harmonics. Equipment such as inverters, standby generators, medical high frequency When the relative humidity is higher than 80 % or drainage pipe is clogged · Be sure to perform air tightness test by pressurizing with nitrogen Do not install the unit where corrosive gas (such as suffurous acid gas etc.) or combustible gas (such as thinner and petroleum can accumulate or collect, or where volatile combustible substances are handled. equipment and telecommunication equipment, and obstruct its function or condensation or drainage water can drop and it can cause the damage of Do not touch any refrigerant pipes with your hands when the system During operation the refrigerant pipes become extremely hot or extremely when carrying the unit by hand. Use gloves to minimize the risk of cuts by the aluminum fins. 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 Carry out the electrical work for ground lead with care.
 Do not connect the ground lead to the gas line, water line, lighthing conductor or telephone line's ground lead. Incorrect grounding can cause unit Do not place any variables which will be damaged by getting wet under the indoor unit. Do not install the remote control at the direct sunlight. Dispose of any packing materials correctly. failure and fire. • Do not touch any buttons with wet hands. It can cause electric shocks. It can cause the damage of the items. occur such as in laundries. rise apartment etc. serious accidents. cause jamming. is in operation. valuables CAUTION art.

accordance with the locked in OFF state in accordance with the locked in OFF state in accordance with the locked in OFF state in accordance with The RN80204.1
The solator should be locked in OFF state in accordance with the drainage plot run off trainage state in the locked in the room and damaging personal property.
Be sure to install the drainage plot with eloheden state in the lock if the drainage presonal property. Locations where strong air blows against the air outlet of outdoor unit.
 Locations where something located above the unit could fall.
 It can cause remarkable decrease in performance, corrosion and damage of Locations with salty atmospheres such as coastlines.
 Locations with heavy snow (if installed, be sure to provide base flame and the space for inspection and maintenance. A After maintenance, all writing, writing laws and the like, should be returned to their original state and writing route, and the necessary clearance from all metal parts should be secured. Secure a space for installation, inspection and maintenance specified in the manual. Using the incorrect one could cause the system failure and fire. Install isolator or disconnect switch on the power source wiring in Insufficient space can result in accident such as personal injury due to trailing from the installation place. In the such as the statistic of the statistic of the state when carrying the unit by hand. Take care when carrying the place states, always use the carry hand e persons. Do not carry by the place strates, always use the carry handle Do not install the unit in the locations listed below.
 Locations where carbon fiber, metal powder or any powder is floating.
 Locations where any substances that can affect the unit such as sulphide Locations where any machines which generate high frequency harmonics Locations with any obstacles which can prevent inlet and outlet air of the unit.
 Locations where short-circuit of air can occur (in case of multiple units) structure. • Locations where the infrared receiver is exposed to the direct sunlight or روایت المحمد Locations with ammonic atmospheres (e.g. organic fertilizer).
 Locations with calcium chloride (e.g. snow melting agent).
 Locations where heat radiation from other heat source can affect the unit. components, malfunction and fire. Do not install the indoor until in the locations listed below [Be sure to install the indoor until according to the installation manual for each model because aech indoor until has each limitation). Use the circuit breaker of correct capacity. Circuit breaker should be able to disconnect all poles under over current. Locations with direct exposure of oil mist and steam such as kitchen and the strong light beam immediate of the infrared specification unit, the strong light beam (in case of the infrared specification unit). I clocations where an equipment affected by high harmonics is placed (TV set or radio receiver is placed within 1 m). Locations with any obstacles which can prevent inlet and outlet air of the € Locations where drainage cannot run off safely.
 It can affect performance or function and etc.
 Do not initiative the unit near the location where leakage of combistible gases can occur.
 If leaked gases accumulate around the unit, it can cause free. Locations where cosmetic or special sprays are often used Locations where the unit is exposed to chimney smoke. faults such as electric shocks due to short-circuiting. Locations at high altitude (more than 1000 m high). gas, chloride gas, acid and alkaline can occur. • Vehicles and ships. Locations without good air circulation. snow hood mentioned in the manual) machine plant. installation). are used. 8  $\oslash$ any user can read at any time. Moreover if necessary, ask to hand them to a Lest 3 mm.
 Use the prescribed cables for electrical connection, tighten the cables securely in terminal block and releve the cables correctly to prevent overlading the terminal blocks.
 Loose connections or cable multiples an cab anomalous heat production or fines or cable multiples and cable some to the secure of box so that it cannot be pushed up further into the box. Install the service panel correctly. Do not bundle or wind or process the power cable. Do not deform the power cable by treading it. This may cause fire or heating.
 Do not vort R32 or R410A lino atmosphere.
 Do not vort R32 or R410A lino atmosphere.
 R31 is a fluorinated greenhouse gas with a Global Warming Potential (GWP) = 2088. production or fire. • This appliance must be connected to main power source by means of a circuit breaker or switch (fuse:16 A) with a contact separation of Always do it according to the instruction. Tighten the flare nut by torque wrench with specified method.
 If the flare nut were lightened with scoses bronce, this may cause burst
and refrigerant leakage flare a long period.
 The electrical installation must be carried out by the qualified
electrician in accordance with "the norm for electrical work" and Before installation, read the "SAFETY PRECAUTIONS" carefully and strictly • Keep the installation manual together with user's manual at a place where "national wiring regulation", and the system must be connected to the dedicated circuit. Power source with insufficient capacity and incorrect function done by In a lower operation by short-circuiting protective device of pressure switch and temperature control or the use of non specified component can cause fire or burst. Pay attention not to fall down the tools, etc. when installing the unit at the Inspection or servicing. If the power source is not shut off, there is a risk of electric shocks, unit If the earth leakage breaker is not installed, it can cause electric shocks Be sure to use the cables conformed to safety standard and cable Incorrect installation may result in overheating and fire. • Be sure to switch off the power source in the event of installation, A wired reacto conrot tuit is supplied separately as an option part. When install the unit, he sure to check whether the selection of installation place, power source specifications, usage limitation (piping ready, height offerencies between into or and outdoor units, power source oblage and exclaination spaces. Do not perform any change of protective device itself or its setup RFB012A008B Before starting the installation work, proper precautions (using suitable protective clothing, groves etc.) should be taken by qualified installer. Failure to shut off the power can cause electric shocks, unit failure or Do not run the unit with removed panels or protections. Touching rotating equipments, hot surfaces or high voltage parts can condition. The forced operation by short-circuiting protective device of pressure switch ( failure or personal injury due to the unexpected start of fan. • Be sure to wear protective goggles and gloves while at work. • Earth leakage breaker must be installed. If unusual noise can be heard during operation, consult the dealer. Be sure to shut off the power before starting electrical work. cause personal injury due to entrapment, burn or electric shocks. Unconformable cables can cause electric leak, anomalous heat The meanings of "Marks" used here are shown as follows: improper work can cause electric shocks and fire. ampacity for power distribution work. incorrect function of equipment. Never do it under any circumstances. SAFETY PRECAUTIONS high position. A WARNING new user. When installing in small rooms, take prevention measures not to be produced.
 When installing in small rooms, take prevention measures not to be sceed the density limit of refrigarant in the event of leakage, if the density of refrigerant looms, take prevention measures not to be acceed the limit. consult the density of refrigerant leakage, if the density of refrigerant leakage is of oxygen can occur, which is an occus sectors then, in the over of oxygen can occur, which is an occuse sectors are sectored to cover which the event and one of installation. The owner of oxygen can occur, which is an occus societ, such that no refrigerant leaks from the system.
 Use the prescribed pipes, firse nuts and occurs with an over of other hot surface, poisonus gas is produced.
 Use the prescribed pipes, firse nuts and course the out of the refrigerant leaks from the section active acceled to the ording root of the refrigerant leak and the section of the refrigerant leaks from 2.5 are cause the ording root of the refrigerant leaks in the section of the refrigerant leaks from 2.5 are cause the ording root of the refrigerant leaks in the prescribed pipes. A section of the refrigerant leaks from 2.5 are cause the ording root of the refrigerant leaks in the prescribed pipes. A section cause the ording root of the refrigerant leakes in the section of the refrigerant leakes in the section. Installation must be carried out by the qualified installer.
 If you install the system by yourself, it may cause serious touble such as water leaks, electic shocks, the and personal highly, as a result of a system matitorion. Do not carry out the installation and maintenance work except the by qualified installer. electric shocks and fire. Be sure to use only for household and residence. If this appliance is installed in inferior environment such as machine shop If air enters in the refrigerant circuit, the pressure in the refrigerant circuit becomes too high, which can cause burst and personal injury. Do not process or splice the power cable, or share the socket with refrigerant comes into contact with naked flames, poisonous gas is Do not put the drainage pipe directly into drainage channels where poisonous gases such as sulphide gas can occur.
 Poisonous gases will flow into the room through drainage pipe and other power plugs. This may cause fire or electric shock due to defecting contact, defecting insulation and over-current etc. corrosion of the indoor unit and a resultant unit failure or refrigerant leak. Ensure that no air enters in the refrigerant circuit when the unit is installed and removed. 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 Wrong installation would cause serious consequences such If parts other than those prescribed by us are used, It may cause water Both mention the important items to protect your health and safety so strictly material damage and personal injury. Ventilate the working area well in the event of refrigerant leakage Install the system in full accordance with the installation manual. precautionary items mentioned below are distinguished into two levels, <u>WARNING</u> and <u>(X.CAUTION)</u> <u>VARNING</u> : Wrong installation would cause serious mnearumnes cum leaks, electric shocks, fire and personal injury. Install the unit in a location with good support. Unsuitable installation locations can cause the unit to fall resulting in seriously affect the user's health and safety. This can also cause the and etc., it can cause malfunction. Use the original accessories and the specified components for installation. Incorrect installation may cause bursts, personal injury, water leaks, This installation manual illustrates the method of installing an indoor For outdoor unit installation and refrigerant piping, please refer to page 113. : Wrong installation might cause serious consequences unit. For electrical wiring work, please see instructions set out on the follow it during the installation work in order to protect yourself. of this equipment to the user according to the user's manual. depending on circumstances.

cold depending the operating condition, and it can cause burn injury or frost

Water leakage and permanent damage may result. Electrical hazard exists. injury. • Do not wash the inside of the air-conditioner.

during installation. If the refrigerant com

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as injuries or death.

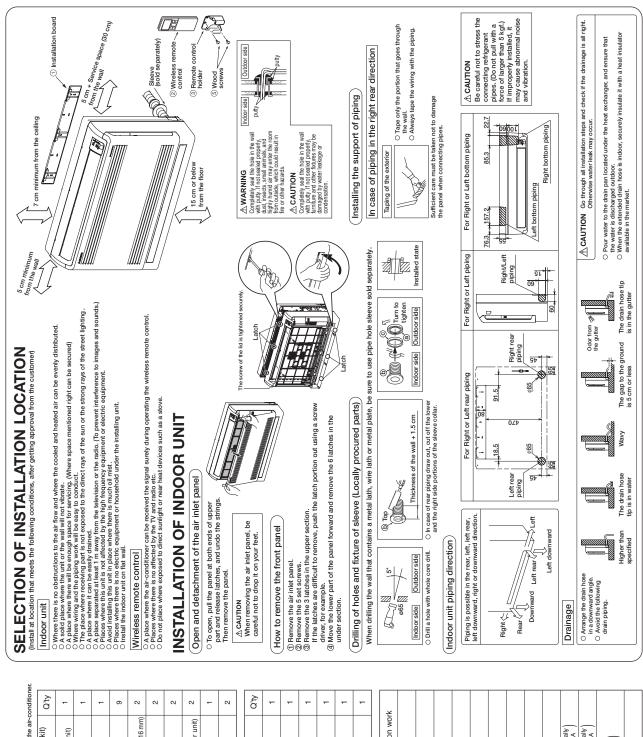
▲ CAUTION :

A A A A A A A

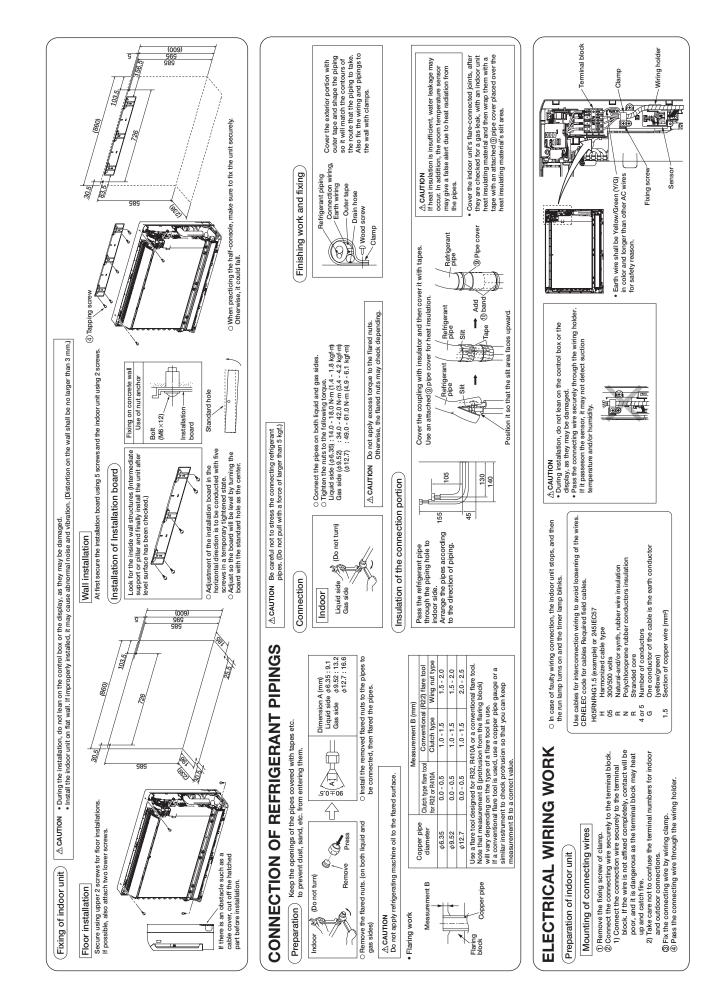
backside

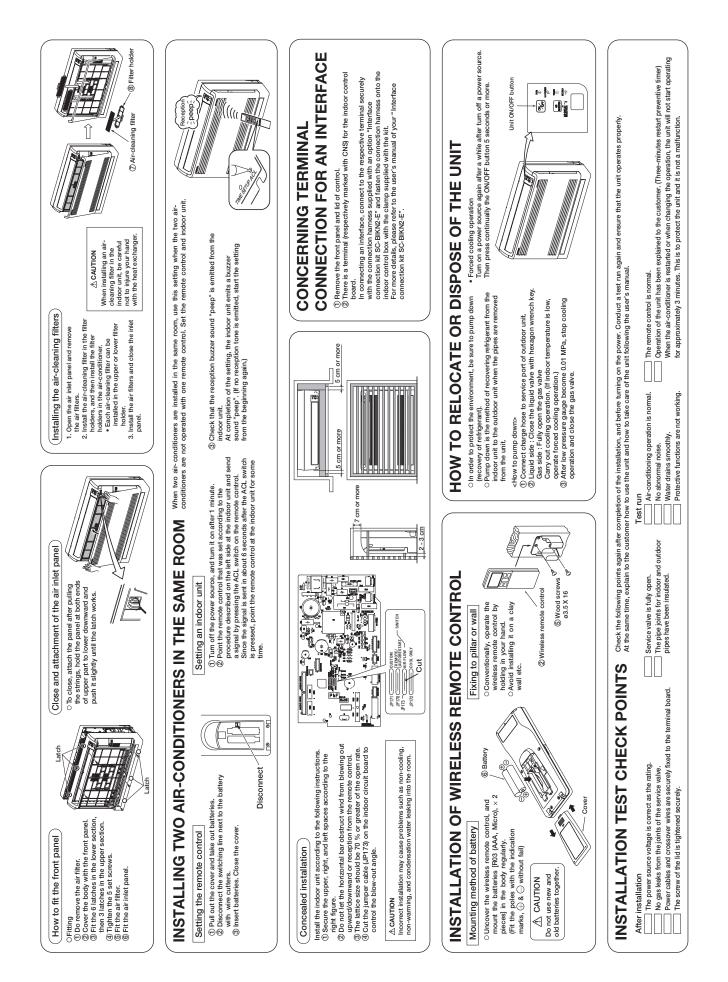
follow them by any means.

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**BEFORE INSTALLATION** 





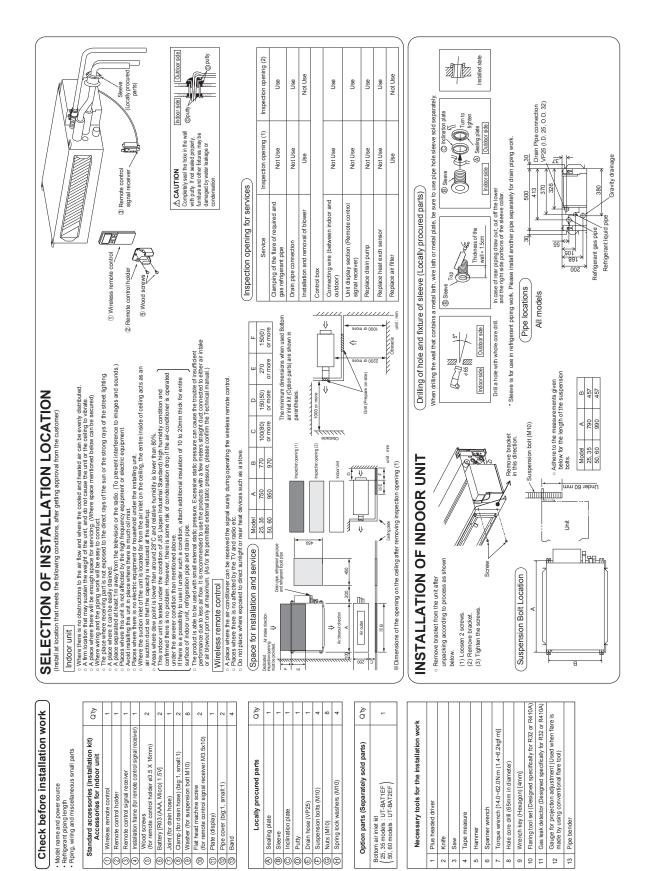
### (3) Ceiling concealed type (SRR) Models SRR25ZS-W, 35ZS-W

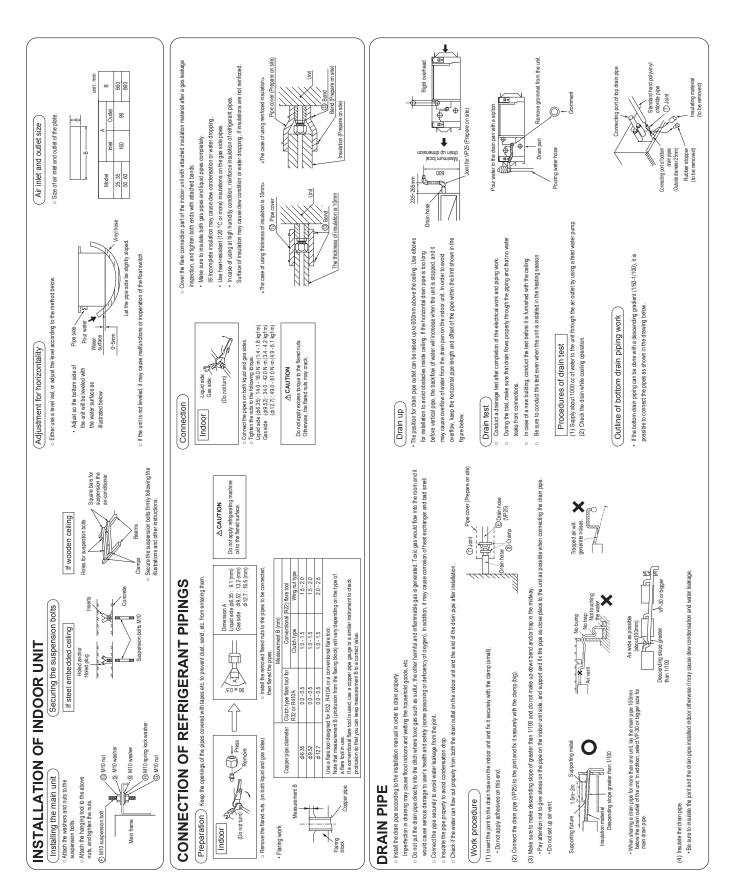
RJJ012A003F

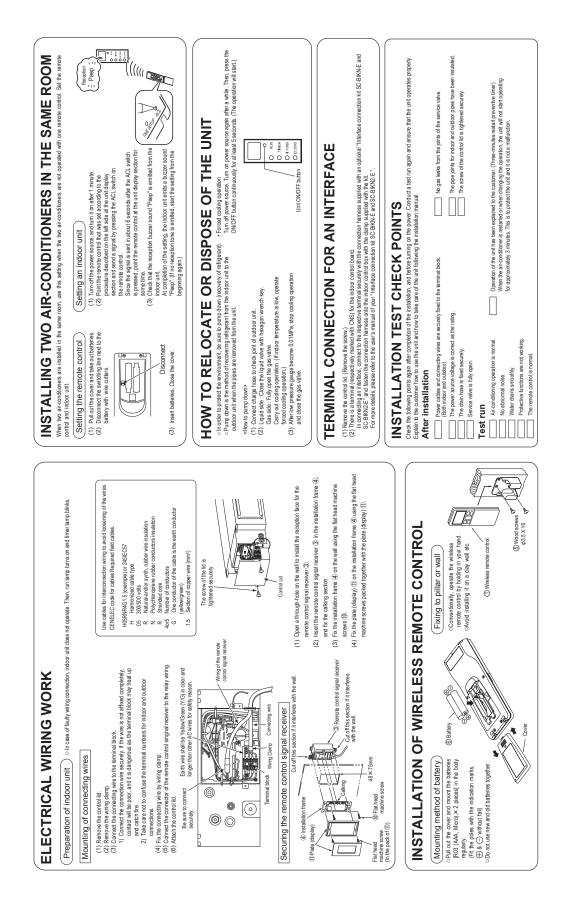
 when carrying the unit by hard. Use gloves to minimize the risk of cuts by the admixtm firs.
 Disposed of any packing materials corrrectly.
 Any remaining packing materials and support any from the support and provide angle of sufficient of the support and provide angle of support and provide angle of support and provide and the support and provide and the support and provide angle of support and angle of support and support and support and support and support and support and angle of support and angle of support and angle of support and support and angle of support angle of support angle of support angle of support angle of sup an instance.
 an instance.
 an instance.
 and instance. It can cause the damage of the items. • Do not use any materials other thank thus with the correct rating in the location where fuses are to be used. Connecting the circuit with copper wire or other metal thread can cause unit During operation the refrigerant pipes become extremely hot or extremely cold depending the operating condition, and it can cause burn injury or frost Do not install the remote control at the direct sunlight.
 It can arse malimotion or colormation the remote control.
 Do not use the unit for special purposes such as storing foods,
 Do not use the numit construments and preservation of animals, plants or Do not separative any variables which will be damaged by getting wet - Do not procee any variables which will be damaged by getting wet under the index unit.
 When the estimate which is higher than 90% or damage pipe is clogged which relating we damage weak can drop and it and cause the damaged pipe. Do not install the unit where corrosive gas (such as suffurous acid gas etc.) or combustible gas (such as thinner and petroleum gases) can accumulate or collect, or where volatile combustible substances are handled. · Do not touch any refrigerant pipes with your hands when the system Carry out the electrical work for ground lead with care.
 Do not connect the ground lead to the gas line, water line, lighthing conductor or telephone line's ground lead. Incorrect grounding can cause unit faults such as electric stocks due to short-circularity. Do not wash the inside of the air-conditioner. Water leakage and permanent damage may result. Electrical hazard exists. • Do not touch any buttons with wet hands. t can cause electric shocks. is in operation. failure and fire. Use the circuit breaker of correct capacity. Circuit breaker should with be able to disconnect all pose under cover current.
 Using the incorrectione could cause the system failure and fre.
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 Dori installation)
 Locadions where strong air blows against the air outlet of outdoor unit. It can cause remarkable decreases in performance, corrosion and fail.
 Dori It can cause remarkable decreases in performance, corrosion and damage of coor components, malfunction and rise.
 Do not insall the indoor unit is another prevent intel and outlet of outdoor units and the locations listed below (Be sure to at the model with any obstaces each limitation).
 Locations with any obstaces which can prevent intel and outlet air of the fault so any condimensional the manual, consider where the unit is expected to chirmery strates. • Locations where the unit is expected to chirmery strates. • Locations with animoth annophere (s, a group reflect) • Locations with animoth annophere (s, a strate source can affect the unit. • Locations within any addition of the trate source can affect the unit. • Locations with any addition of chiral and a chiral and • Locations with any strategies with can proceed in the addition. 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 1m). · Locations where vibration can be amplified due to insufficient strength of Locations where chaining cannot fun off safely.
 Locations where chaining cannot fun off safely It can affect performance or function and etc.
 Do no thins tall the unit near the location where leakage of combustible gases can occur. If leaked gases accumulate around the unit, it can cause fire structure. unit. Ò 0 Before installation read the "SAFETY PRECAUTIONS" carefully and strictly • Keep the installation manual together with owner's manual at a place where Before installation work norder to protecty outself. The presentationary liters method with a strictly and a strictly in the Moreover if receasiny ski to hand hern to a the presentationary liters method with a strictly installation work proper fractautions (ski to than the and the more are as a strictly in the Moreover if receasing ski to hand hern to a the presentation work cause services such the Moreover installation work cause services such the Moreover installing the unit at the "Pay attention robust cause services consequences hybrosition". "Physician receases a service in the antion notion fail and the fraction of the liter in the "A work installation" and the service consequences "Pay attention robust cause services consequences hybrosition". FOR MODEL SRR SERIES R32/R410A REFRIGERANT USED When plugging this appliance, a plug conforming to the norm ECG08944 instant basis for electrical connection, tighten the active preserved in the instant eleven the cables correctly to prevent overloading the leminal blocks and relieve the cables correctly to prevent overloading the leminal blocks and cables the cables correctly to prevent overloading the leminal blocks and cables and and prevent overloading the leminal blocks and cables and production of the leminal block so that it cannot be pushed up intriher into the box. Install the service panel correctly. Do not put the drainage pipe directly into drainage channels where the port bundle or whore or process the power cord. Do not deform the proteinvous gases each sate bind gas can be not provided and the relation of the rela Always do it according to the instruction. Installation must be carried out by the qualified installer.
 Tighten the fare nut by torque wrench with specified method.
 Tryon itself her system multiple system must be connected to increat installation manual interview of exceptions with the exception with the exception of the power of exceptions with the exceptincion of experiments and exception with the exception with th production or file. • This appliance must be connected to main power source by means of a circuit breaker or switch (fuse:16A) with a contact separation of at least 3mm. temperature controller or the use of non specified component can cause fire or burst. A wired remote control unit is supplied separately as an optional part.
 While installing the unit, be sure to check the selection of installation place, power source specifications, usage initiation (piping length, height prover source valage etc.) differences between indoor and outdoor units, power source valage etc.) • Be sure to switch off the power source in the event of installation, • Be sure to switch off the power source in the event of installation, inspection or servicing. In the power source is not surt off, there is a risk of electic shocks, unit failure or personal injury due to the unexpected start of fail. Be sure to wear protective goggles and gloves while at work.
 Earth leakage breaker must be installed.
 If the earth leakage breaker is not installed, it can cause electric shocks. incorrect function of equipment. • Be sure to use the cables conformed to safety standard and cable ampacity for power distribution work. cause personal injury due to entrapment, burn or electric shocks. • Do not perform any change of protective device itself or its setup corrector of the index or unit and a resultari unit failure or entrogenent leak. R22 is a functinated greentones gas with a Cotal Vienney Potential (CMP) = Ensure that no alreaters in the refrigerant circuit when the unit is R24 is functinated greentouse gas with a Cotal Vienney Ensure that no alreaters in the refrigerant circuit when the unit is R24 is a functinated greentouse gas with a Cotal Vienney refractors in the refrigerant circuit when the unit is R24 is a functinated greentouse gas with a Cotal Vienney first allele and removes in the refrigerant circuit when the unit is R24 is a functinated greentouse gas with a Cotal Vienney first allele and remove proves are used and proving in the circuit of the pressure in the refrigerant circuit with the relevance of the proverticed in the proverticed and the proverting and the proverticed and the pro If unusual noise can be heard during operation, consult the dealer. conformable cables can cause electric leak, anomalous heat Both mention the important items to protect your health and safety so strictly • The meanings of "Marks" used here are shown as follows: Never do it under any circumstances. SAFETY PRECAUTIONS ▲ WARNING When installing in small rooms, take prevention measures not to cocceed the density line of rangingament, in the event of leakage, redeared by the formula (accordance with ISOF44) of leakage, redeared by the formula (accordance with ISOF44) of leakage, if the density of religerant exceeds the limit, covard the dealer and in the density of religerant exceeds the limit, covard the dealer and in the density of religerant coversity the limit, covard the dealer and in the density of religerant coversity the limit, cover which is conclusive services accident. refrigerant comes into contact with naked flames, poisonous gas is The reference and lease non-anness into contract with an over or other the surface, poisoncus gas is produced. Uses the prescribed pipes, then nuts and look for R32 or R410A. Uses the prescribed pipes, then nuts and look for R32 or R410A. Surface service and the nuts of the refrequent circuit. installation. If parts other than those prescribed by us are used, it may cause water follow them by any means. To low them by any means, the equipment by commissioning after completed bes sue to confirm no anomaly on the equipment by commence methods installation and explain the operating methods as well as the maintenance methods of this equipment to the user according to the owner's manual. material damage and personal injury. Ventilate the working area well in the event of refrigerant leakage leaks, electric shocks, fire and personal injury. Install the unit in a location with good support. Unsuitable installation locations can cause the unit to fall resulting in This installation manual illustrates the method of installing an indoor unit.
 For electrical wiring work, see instructions set out on the backside.
 For outdoor unit installation and refrigerant piping, refer to Page 113. depending on circumstances. during installation. If the refrigerant comes produced.

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### (4) 4-way ceiling cassette type(FDTC) Models FDTC25VH1, 35VH1

This manual is for the installation of the indoor unit.

For wired remote control installation, refer to page 249. For wireless kit installation, refer to page 267. For electrical wiring work (Outdoor unit) and refrigerant pipe work installation for outdoor unit, refer to page 113. For motion sensor kit installation, refer to page 275. 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, [<u>AWARNING</u>] and [<u>ACAUTION</u>]. [<u>AWARNING</u>]: Wrong installation would cause serious consequences such as injuries or death. [<u>AWARNING</u>]: 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: [<u>Never do it under any circumstances</u>. **O Marks**" of <u>AWARS</u> (<u>AWARNING</u>) and <u>AWARS</u> (<u>AWARNING</u>) and <u>AWARS</u> (<u>AWARNING</u>) **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

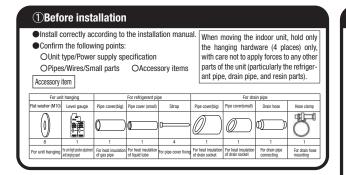
### Ask your customers to keep this installation manual together with the user's manual. Also, ask them to h over the user's manual to the new user when the owner is changed.

🗥 WARNING	
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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 over	turn of the unit.	0
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).		6
If the density exceeds the limit density, please consult the dealer and installate the ventilation system.		U
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 over	turn of the unit.	U
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.		<u> </u>
Install the unit properly in order to be able to withstand strong winds such as typhoons, and ear	thquakes.	A
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.	(	$\wedge$
If air is mixed in, the pressure in the cooling cycle will rise abnormally and may cause explosion and injuries.		$\frac{1}{2}$
Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive During source with instificient expectition of improve under one source electric about and fire.	e circuit.	a
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 cal in order not to apply unexpected stress on the terminal.	ne securely	a
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	f the	_
services panel property.	(	
Improper fitting may cause abnormal heat and fire.		_
Check for refrigerant gas leakage after installation is completed.		a
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.		a
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.	(	a
	lfido noo oon	-
Do not put the drainage pipe directly into drainage channels where poisonous gases such as su occur.	mue gas can	$\sim$
Poisonous gases will flow into the room through drainage pipe and seriously affect the user's health and safety. The	iis can also	0
cause the corrosion of the indoor unit and a resultant unit failure or refrigerant leak.		
Oconnect the pipes for refrigeration circuit securely in installation work before compressor is op		
If the compressor is operated when the service valve is open without connecting the pipe, it could cause explosion a to abnormal high pressure in the system.	and injuries due	J
Stop the compressor before removing the pipe after shutting the service valve on pump down w		
If the pipe is removed when the compressor is in operation with the service valve one, air would be mixed in the refi		A
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	ι.	ſ
If you install the system by yourself, it can cause serious trouble such as water leaks, electric shocks, fire.		C
Do not repair by yourself. And consult with the dealer about repair.	(	$ \wedge $
Improper repair may cause water leakage, electric shock or fire.		$\overline{}$
Consult the dealer or a specialist about removal of the air conditioner.		A
Improper installation may cause water leakage, electric shock or fire.		
) Turn off the power source during servicing or inspection work.	na fan	A
If the power is supplied during servicing or inspection work, it could cause electric shock and injury by the operati	ny tati.	-
		$\sim$
) Do not run the unit when the panel or protection guard are taken off.		<ul> <li>\</li> </ul>
	chine, to get	$\bigcirc$
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 ma	chine, to get	

PJF012D514

$\bigcap$	▲ 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.	0
•	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.	0
•	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.	$\bigcirc$
•	Do not install the indoor unit near the location where there is possibility of flammable gas leakages.	$\overline{\Diamond}$
•	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, it could be sprayed with chemicals, or volatile flammable substances are handled. It could cause the corrosion of heat exchance, breakage of plastic parts etc. And inflammable gas could cause fire.	$\odot$
•	Secure a space for installation, inspection and maintenance specified in the manual.	0
•	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.	$\overline{\frown}$
•	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.	$\bigcirc$
•	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 malfurction and breakdown. Of the air conditioner private influence medical equipments or telecommunication equipments, and obstruct their medical activity or cause jamming.	$\bigcirc$
•	Do not install the remote control at the direct sunlight. It could cause breakdown or deformation of the remote control.	$\bigcirc$
•	Do not install the indoor unit at the place listed below.         Places where the substances where flammable gas could leak.         Places where cosmetics or special sprays are frequently used.           Places where the substances which affect the air conditioner are generated such as sulfide gas, cloirde gas, acid alkali or ammonic atmospheres.         Place where the substances which affect the air conditioner are generated substances which affect the air conditioner are generated praces exposed to all mist or steam directly.         Places where the system is affected by smoke from a chinney.           On vehicles and ships         Places where achinery which generates high harmonics is used.         Hadaware achinery which generates high harmonics is used.	$\odot$
	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) bond insufficient strength of structure. Locations where wination can be amplified due to insufficient strength of structure. Locations where the infrared receiver is exposed to the strong light beam, (in case of the struct light) the struct light beam (in case struct light) the struct light beam (in case struct light beam, (in case of the struct light beam, (in case of the struct light) the struct light beam (in case struct light) the stru	BS.
•	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.	$\otimes$
•	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.	$\bigcirc$
•	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. 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 hitrogen gas after completed refrigerant piping work.	0
	occur, which can cause serious accidents.	0
•	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.	0
•	Ensure the insulation on the pipes for refrigeration circuit so as not to condense water. Incomplete insulation could cause condensation and it would vet ceiling, floor, and any other valuables.	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 keep the surroundings clean.	$\bigcirc$
•	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.	0
•	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.	0
•	Do not operate the system without the air filter. It may cause the breakdown of the system due to clogging of the heat exchanger.	$\bigcirc$
•	Do not touch any button with wet hands.	$\overline{\Diamond}$
•	It could cause electric shock. Do not touch the refrigerant piping with bare hands when in operation. The lock divergence would become use before cold eccentions beto an efficience of it could ecure a hum or fraction.	$\overline{\Diamond}$
•	The pipe during operation would become very hot or cold according to the operating condition, and it could cause a burn or frostbile. Do not clean up the air conditioner with water, and do not spray disinfectants etc. directly over the air conditioner.	പ്
•	It could cause electrical shock or corrode parts. Do not turn off the power source immediately after stopping the operation.	स्र
•	Be sure to wait for more than 5 minutes. Otherwise it could cause water leakage or breakdown. Do not control the operation with the circuit breaker.	쐿
$\mathcal{L}$	It could cause fire or water leakage. In addition, the fan may start operation unexpectedly and it may cause injury.	<u>v</u>



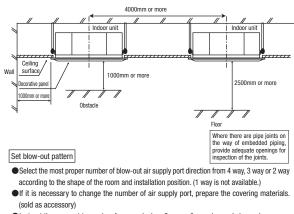
### 2 Selection of installation location for the indoor unit

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.
- 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 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.
- (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.

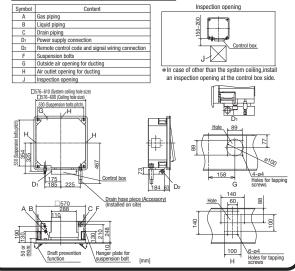


- Instruct the user not to use low fan speed when 2way or 3way air supply is used. Do not use 2way air supply port under high temperature and humidity environment.
- (Otherwise it could cause condensation and leakage of water.) It is possible to set the airflow direction port by port independently. Refer to the user's manual
- for details

### **③Preparation before installation**

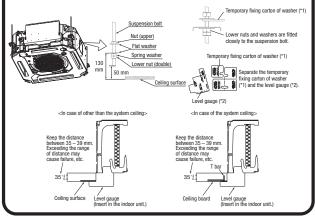
- If suspension bolt becomes longer, do reinforcement of earthquake resistant. OFor arid ceilina
- When suspension bolt length is over 500mm, or the gap between the ceiling and roof is over 700mm, apply earthquake resistant brace to the bolt Oln case the unit is hanged directly from the slab and is installed 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.

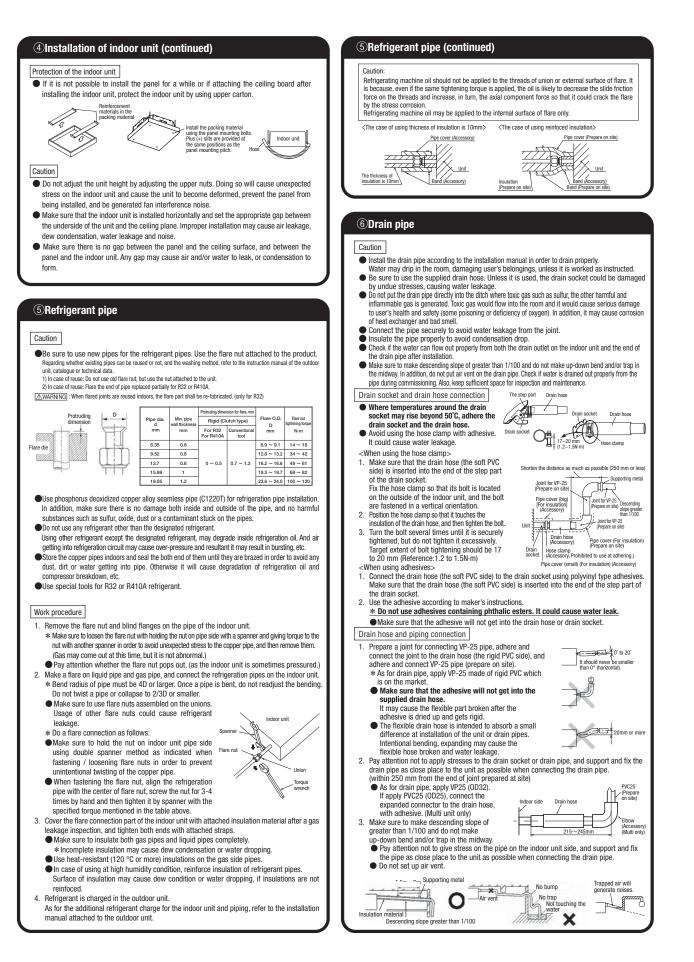
### Ceiling opening, Suspension bolts pitch, Pipe position

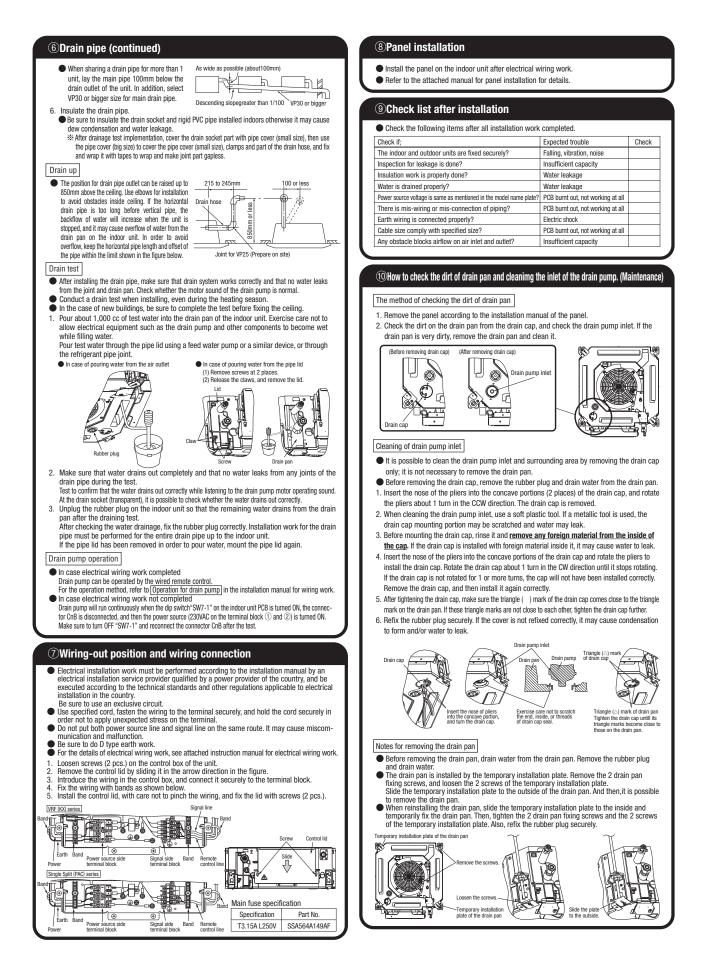


### (4) Installation of indoor unit

- 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.
- Determine the position of suspension bolts (530  $\rm mm \times 530$  mm) 2
- 3 Use 4 suspension bolts, and fix them.
- Set the suspension bolt length to about 50 mm from the ceiling. 5. Temporarily locate the lower nuts of the suspension bolts (4 places) at a position approxi-
- mately 130 mm from the ceiling. Temporarily locate the upper nuts of the suspension bolts (4 places) at positions sufficiently 6
- 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.
- 8.
- 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).

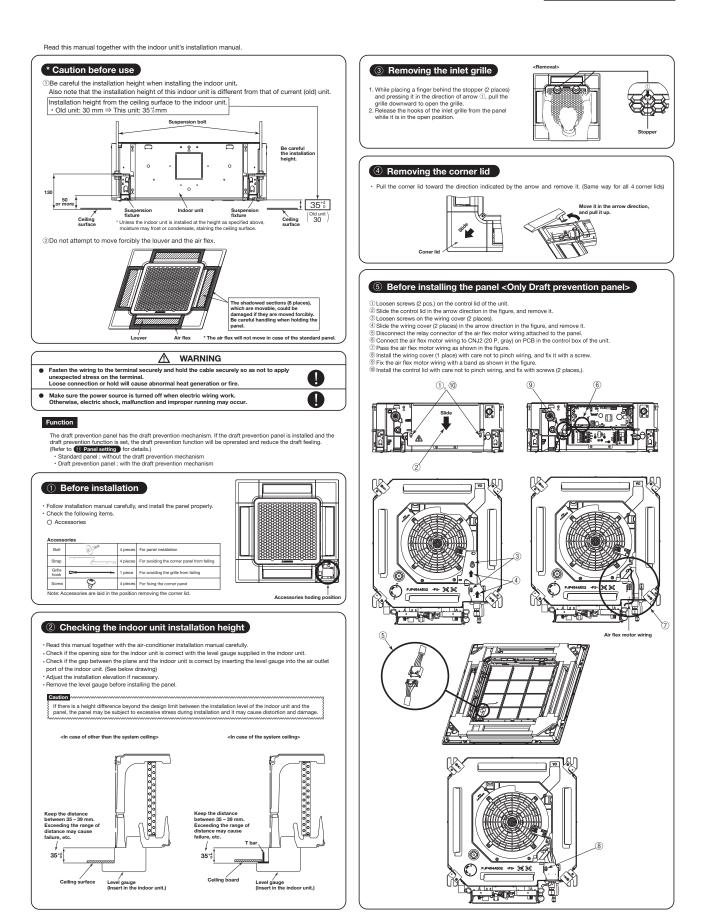


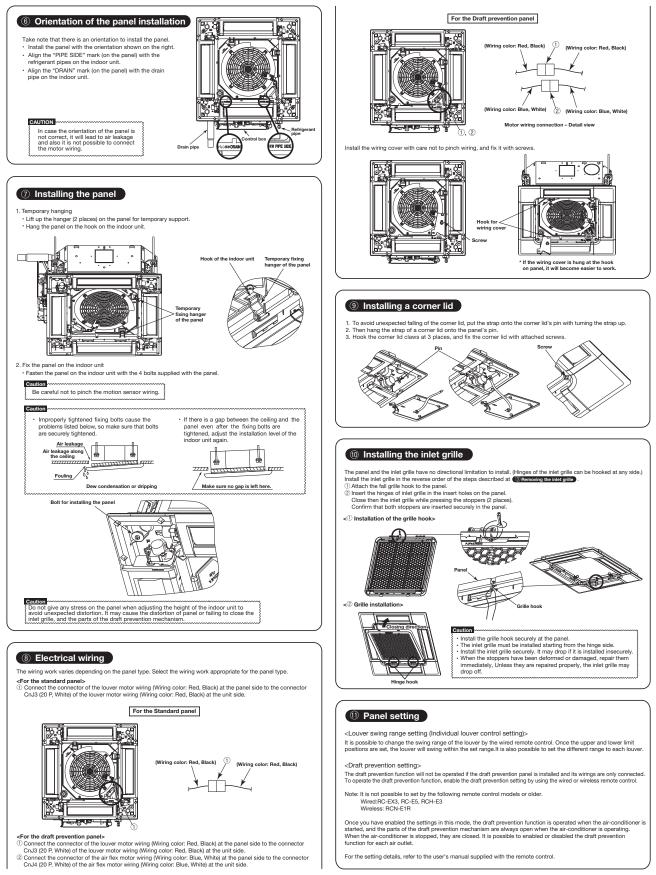




# Panel installation

# PJF012D503





# FRESH AIR INTAKE (Location for installation) FOR FDTC

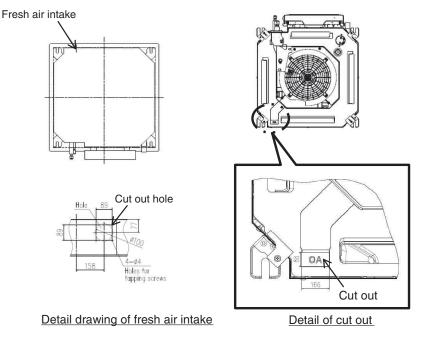
At the time of installation use the duct hole (cut out) located at the positions shown in following diagram, as and when required.

# (1)Temperature conditions for OA spacer<sup>(1)</sup>

- 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 satisfy, process the outdoor air before intaking.

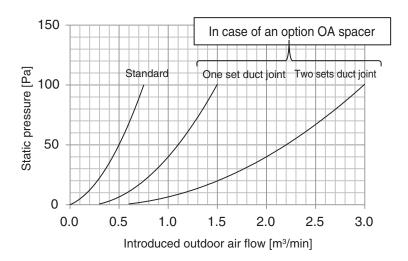
Our constituent on the	Usage tempe	rature conditions
Operation mode	Intake outdoor air	Indoor air around the ducts
Heating	5°C DB or higher	18.5°C WB or lower and 60% RH or lower
Cooling	29°C DB or lower and 80% RH or lower	20°C DB or higher

Note(1) : For the OA spacer, refer to page 290.

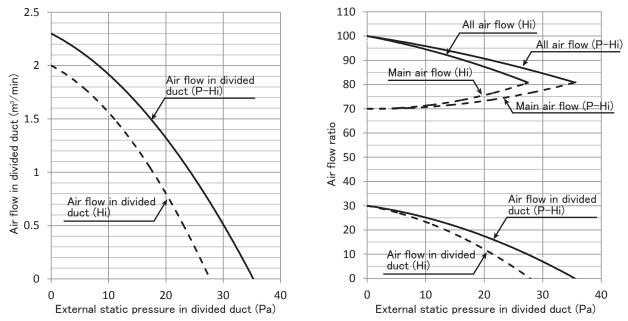


# Fresh air intake amount & static pressure characteristics

All models



# **CHARACTERISTICS OF AIR FLOW IN DIVIDED DUCT FOR FDTC**



# Models FDTC25VH1, 35VH1

# Divided duct connection method

- 1. Open some one during 3 knockout 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 on the side where a divided duct was connected.
- 3. The shorage 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 1.5m<sup>3</sup>/min of ventilation by divided duct is needed in model FDTC25VH1

(In case of connection duct  $\phi$  125 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 1.5m<sup>3</sup>/min =11Pa (See upper table.)

 $\Rightarrow$ Correspondence by a booster fan =1+2-3 =34Pa

# 9.2 Installation of outdoor unit

Models SRC20ZS-WA

SRC25ZS-WA2

SRC35ZS-WA2

• This installation manual deals with an outdoor unit installation only. For an indoor unit installation, refer to page 89.

#### SAFETY PRECAUTIONS

Before installation, read the "SAFETY PRECAUTIONS" carefully and strictly follow it during the installat- tion work in order to protect yourself.
 The precautionary items mentioned below are distinguished into two levels, WARNING and Can result in serious con- WARNING Indicates a potentially hazardous situation which if not avoided, can result in serious con- the series and the user's manual.

WARNING
 Indicates a potentially hazardous situation which, if not avoided, can result in serious on sequences such as death or severe injury.
 A CAUTION
 Indicates a potentially hazardous situation which, if not avoided, can result in personal in be to the user's manual.
 Be sure to keep the installation manual together with user's manual at a place where it is easily accessible to the user any time. Moreover, ask the user to hand the manuals to a new user, whenever required.

by property damage. Both mention the important items to protect your health and safety. Therefore, strictly follow them by any mean

During pump down work, be sure to stop the compressor before closing ser-vice 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-

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 ac-cordance 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.

Pacifies are installed. Circuit breaker should be able to disconnect all poles under over current. Absence of appropriate

Be sure to switch off the power source in the event of installation, mainte-

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 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 cable, or share the socket with improper power cable or power plug can cause fire or electric shock due to poor connection, insuf-ficient insulation or over-current.

ficient 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 leak or fire 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.

Using improper cables can cause electric teak or inte. This appliance must be connected to main power source by means of a cir-cuit breaker or switch with a contact separation of at least 3 mm. Improper electrical work can cause unit failure or personal injury. 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

nance or service.

- Be sure to use only for residential purpose. It fits unit is installed in inferior environment such as machine shop, vehicle (like ship), warehouse, etc., it can malfunction. Installation must be carried out by the qualified installer completely in accor-

- 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 safely 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 perconal injury.
- sonal iniur 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.
- Cherwise 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 acuse 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. Using any other refrigerant can cause unit failure and personal injury. Do not vent R32 into atmosphere.
- R32 is a floornated greenhouse gas with a Global Warming Potential (GWP) = 675. 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
- an earlier of the ingerian of our interpresent of the religionant of our window of 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. Do not open the liquid and gas service valves before completing piping work, and evacuation.
- work, and evaluation. 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 result-
- In the start of the started mit the reingerant circuit wind can cause anothalous inght pressure result ing 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.

- Take care when carrying the unit by hand. If the unit weight is more than 20 kg, 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.

- can inhabit.
  Insects and small animals can enter the electrical parts and cause damage resulting in fire 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.
  If the outdoor unit is installed to be 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.
  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 corrosion of heat exchanger and damage to plastic parts.
  Do not install the unit close to the equipments that generate electromagnetic waves and/or high-harmonic waves.
- waves and/or high-harmonic waves. Equipment such as inverters, standby generators, medical high frequency equipments and telecom-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 armonia (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. TV set or radio receiver is placed within 1 m. Height above sea level is more than 1000 m. th can cause parformance derardation corresion and damage of components unit malfunction and fire.

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.
  - Do not touch the aluminum fin of the outdoor unit. Aluminium fin temperature is high during heating operation. Touching fin can cause burn.

Autimitation in temperature is mign during neuring operation, rotaching in calc cases outin. 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 op-erating condition. Touching pipes can cause personal injury like burn (hot/cold). Install isolator or disconnect switch on the power source wiring in accor-dance 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 outdoor unit)	Q'ty	Locally procured parts	Tools for installation work		
(1) Drain grommet	1	(a) Anchor bolt(M10-M12) × 4 pcs.	Plus headed driver	Spanner wrench	Vacuum pump*
	<u> </u>	(b) Putty	Knife	Torque wrench [14.0-62.0 N•m(1.4-6.2 kgf•m)]	Gauge manifold *
(2) Drain elbow	1	(c) Electrical tape	Saw	Wrench key (Hexagon) [4 mm]	Charge hose *
*Not included for SRC20, 25, or 35ZS-		(d) Connecting pipe	Vacuum pump adapter		Vacuum pump adapter*
	· • •/-1.	(e) Connecting cable	Tape measure Flaring tool set * (Anti-reverse flow type)		
		(f) Power cable	Pipe cutter Flare adjustment gauge Gas leak detector *		
		(g) Clamp and screw (for finishing work)	*Designed specifically for R32 or R410A		



RWC012A068F

# 2. OUTDOOR UNIT INSTALLATION

- Note 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. A cylinder containing R32 has a light blue indication mark on the top. · Do not use a charge cylinder. The use of a charge cylinder will cause the refrigerant composition to
- In charge which results in performance degradation.
   In charging refrigerant, always take it out from a cylinder in the liquid phase.
   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)

#### 1. Haulage

- Always carry or move the unit with two or more persons. · The right hand side of the unit as viewed from the front (outlet side) is heavier
- A person carrying the right hand side must take care of this fact. A per-son carrying the left hand side must hold the handle provided on the front panel of the unit with his right hand and the corner column section of the unit with his left hand.

#### **⚠** CAUTION

#### When a unit is hauled, take care of its gravity center position which is shifted towards right hand side If the unit is not hauled properly, it can go off balance and fall resulting in serious injury

- 2. Selecting the installation location
  Select the suitable installation location where:
  Unit will be stable, horizontal and free of any vibration transmission.
- There is no obstacle which can prevent smooth air circulation from inlet and outlet side of the unit.
   There is no obstacle which can prevent smooth air circulation from inlet and outlet side of the unit.
   Neighbours are not bothered by noise or air generating from the unit.
- Outlet air of the unit does not blow directly to animals or plants.
- Drain water can be discharged properly.
  There is no risk of flammable gas leakage.
  There are no other heat sources nearby.
- · Unit is not directly exposed to rain or sunlight
- Unit is not directly exposed to all mist and steam.
  Chemical substances like ammonia (organic fertilizer), calcium chloride (snow melting agent) and acid (sulfurous acid etc.), which can harm the unit, will not generate or accumulate.
- Unit is not directly exposed to corrosive gases (like sulphide gas, chloride gas), sea breeze or salty atmosphere
- No TV set or radio receiver is placed within 1 m.
   Unit is not affected by electromagnetic waves and/or high-harmonic waves generated by other equipments.
- Strong wind does not blow against the unit outlet.
   Heavy snowfalls do not occur (If installed, provide proper protection to avoid snow accumulation).

#### NOTE

If the unit is installed in the area where there is a possibility of strong wind or snow accumulation, the fol-lowing measures are required.

(1) Location of strong wind

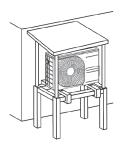
· Place the unit with its outlet side facing the wall. Place the unit such that the direction of air from





- (2) Location of snow accumulation
- · Install the unit on the base so that the bottom is
- higher than snow cover surface.

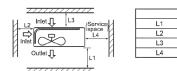
  Install the unit under eaves or provide the roof on site



r-race the unit such that the direction of air from the outlet gets perpendicular to the wind direc-tion.

Wind direction 3. Installation space

There must be 1 m or larger space between the unit and the wall in at least 1 of the 4 sides. Walls surrounding the unit from 4 sides is not acceptable. The wall height on the outlet side should be 1200 mm or less. Refer to the following figure and table for details



		Installation space (mm)
ace	L1	280 or more
ace /	L2	100 or more
y	L3	80 or more
. И	L4	250 or more

#### NOTE

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When more than one unit are installed side by side, provide a 250 mm or wider interval between them as a service space

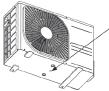
#### A CAUTION

When more than one unit are installed in parallel directions, provide sufficient inlet space so that shortcircuiting may not occur.

# 4. Drain piping work (If necessary)

Carry out drain piping work by using a drain elbow and a drain grommet supplied separately as accessories if condensed water needs to be drained out. Softes in Concerneed water interest to be dramed water (1) Install drain elbow and drain grommet. (2) Seal around the drain elbow and drain grommet with putty or adequate caulking material

<SRC20/25/35/50ZS-W>

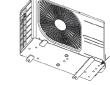


Do not put a grommet on this hole. This is a supplementary drain hole to discharge drain water, when a large amount of it is gathered ered

#### **A** CAUTION

Do not use drain elbow and drain grommet if there is a possibility to have several consecutive days of sub zero temperature. (There is a risk of drain water freezing inside and blocking the drain.)

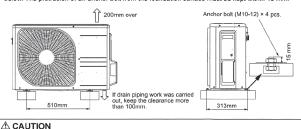
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Do not block the drain holes when installing the outdoor unit

#### 5. Installation

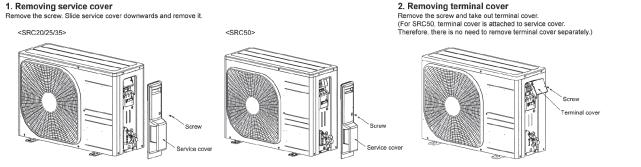
# Install the unit on a flat level base. While installing the unit, keep space and fix the unit's legs with 4 anchor bolts as shown in the figure below. The protrusion of an anchor bolt from the foundation surface must be kept within 15 mm. While



Install the unit properly so that it does not fall over during earthquake, strong wind, etc. Make sure that unit is installed on a flat level base. Installing unit on uneven base may result in unit malfunction

#### **3. PREPARATION FOR WORK**

#### 1. Removing service cover



# 4. CONNECTING PIPING WORK

#### 1. Restrictions on unit installation

Abide by the following restrictions on unit installation. Improper installation can cause compressor failure or performance degradation

#### Dimensional restrictions Model SRC20/25/35 Model SRC50 25 m or less Connecting pipe length(L) 20 m or less

Elevation difference between 10 m or less 15 m or less indoor and outdoor units(H)\*

\* Outdoor unit installation position can be higher as well as lower than the indoor unit installation position.

#### 2. Preparation of connecting pipe 2.1 Sel

Selecting connecting pipe ect connecting pipe according to the following table.			
	Model SRC20/25/35	Model SRC50	
Gas pipe	φ9.52	φ12.7	
Liquid pipe	<i>φ</i> 6.35	<i>d</i> 6.35	

Liquid pipe  $\phi$ 6.35 Pipe wall thickness must be greater than or equal to 0.8 mm.

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).

#### NOTE

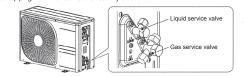
If it is required to reuse the existing connecting pipe system, refer to 5. UTILIZATION OF EXISTING PIPE.

2.2 Cutting connecting pipe (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.

#### 3. Piping work

Check that both liquid and gas service valves are fully closed. Carry out the piping work with service valves fully closed.



3.1 Flaring pipe
(1) Take out flare nuts from the service valves of outdoor unit and engage them onto connecting pipes.

(1) Take out flare nuts from the service valves of outdoor unit and engage arent one control of the service valves of outdoor unit and engage arent one control of the service valves of the 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 dimension B with a flare adjustment gauge.

A	Copper pipe		mļ	Copper pipe	B [Rigid (cl	utch) type]	
	outer diameter	A		outer diameter	R32 or R410A	Conventional	
1 i l	<i>φ</i> 6.35	9.1		φ6.35			
	<i>φ</i> 9.52	13.2		φ9.52	0-0.5	1.0-1.5	
1   1	φ12.7	16.6		φ12.7			1

<ol> <li>Connect pipes on both liquid and gas sides.</li> <li>Tighten nuts to specified torque shown in the table belowing the statement of the stateme</li></ol>		
Service valve size (mm)	Tightening torque (N·m)	
φ6.35 (1/4")	14-18	
φ9.52 (3/8")	34-42	
φ12.7 (1/2")	49-61	

#### 

 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

# 5. UTILIZATION OF EXISTING PIPE

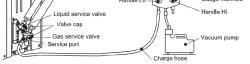
(1) Check whether an existing pipe system is reusable or not by using the follow	ving flow chart.
Are the outdoor and indcor units connected to the existing pipe system ?	NO
YES	
Is it possible to run the unit?	N0 ►
YES	
Does the existing unit use any of the following refrigerant oils ? Suniso, MS,Barell Freeze, HAB, Freol, ether oil, ester oil.	
YES	
Do the existing pipe specifications (pipe length, pipe size and elevation difference between indoor and outdoor unit) conform to the restriction of the unit? (Go to 4.CONNECTING PIPING WORK and check 1.Restrictions on unit installation and 2.Preparation of connecting pipe.)	
YES	
Is the existing pipe system free of corrosion, flaws and dents? NO Repair the damaged parts.	Repair is impossible.
YES Repair	Ale Vehice as le
(Is the existing pipe system free of gas leaks? (Check whether rehigerant charge was required frequently for the system fore).	Air tightness is impossible.
YES Air tightness is OF	κ.
Are heat insulation materials of the existing pipe system free of peel-off or deterioration? (Heat insulation is necessary for both gas and liquid pipes.)	Repair is impossible.
YES Repair	
Is the existing piping system free of any loose pipe support ? NO Repair the loose pipe support.	
YES Repair	
The existing pipe system is reusable. Install the new pipe system.	] <b></b>

#### 4. Evacuation

- Evacuation
   Connect vacuum pump to gauge manifold. Connect charge hose of gauge manifold to service port of outdoor unit.
   (2) Run the vacuum pump for at least one hour after the vacuum gauge shows -0.1 MPa (-76 cm Hg).
   (3) Confirm that the vacuum gauge indicator does not rise even if the system is left for 15 minutes or more. Vacuum gauge indicator will rise if the system has moisture left inside or has a leakage point. Check the system for the leakage point. If leakage point is found, repair it and return to (1) again.
   (4) Close the Handle Lo and stop the vacuum pump. Keep this state for a few minutes to make sure that the compound pressure gauge pointer does not swing back.
   (5) Remove valve caps from liquid service valve and gas service valve.
   (6) Turn the liquid service valve's rod 90 degree counterclockwise with a hexagonal wrench key to open valve.

- valve.
  Close it after 5 seconds, and check for gas leakage.
  Using soapy water, check for gas leakage from indoor unit's flare and outdoor unit's flare and valve rods.
  Wipe off all the water after completing the check.
  (7) Disconnect charging hose from gas service valve's service port and fully open liquid and gas service valves. (Do not attempt to turn valve rod beyond its stop.)
  (8) Tighten operation valve caps and service port cap to the specified torque shown in the table below.





#### $\triangle$ CAUTION

To prevent vacuum pump oil from entering into the refrigerant system, use a counterflow prevention adapter.

#### 5. Additional refrigerant charge

Additional refrigerant charge is required only when connecting pipe length exceeds 15 m. **5.1 Calculating additional refrigerant charge** Additional refrigerant charge (g) = { Connecting pipe length (m) – Factory charged length 15 (m) } x 20 (g/m)

# NOTE

If additional refrigerant charge calculation result is negative, there is no need to remove the refrigerant. If refrigerant recharge is required for the unit with connecting pipe length 15 m or shorter, charge the

The maximum refrigerant charge amount is designed as shown in the table below.

	Model SRC20/25	Model SRC35	Model SRC50
The factory refrigerant charge amount(kg)	0.62	0.78	1.05
The maximum refrigerant charge amount(kg)	0.72	0.88	1.25

#### 5.2 Charging refrigerant

5.2 Charging retrigerant (1) Charge the R32 refrigerant in liquid phase from service port with both liquid and gas service valves shut. Since R32 refrigerant must be charged in the liquid phase, make sure that refrigerant is discharged from the cylinder in the liquid phase all the time. (2) When it is difficult to charge a required refrigerant amount, fully open both liquid and gas ser-vice valves and charge refrigerant, while running the unit in the cooling mode. When refrigerant is charged with the unit being run, complete the charge operation within 30 minutes. (3) Write the additional refrigerant charge calculated from the connecting pipe length on the label at-tached on the service cover.

#### A CAUTION

Do not hold the valve cap area with a spanne

 Running the unit with an insufficient quantity of refrigerant for a long time can cause unit malfunction. Do not charge more than the maximum refrigerant amount. It can cause unit malfunction

#### NOTE

Consult with our distributor in the area, if you need to recover refrigerant and charge it again.
 (2) Clean the existing pipe system according to the procedure given below.
 (a) Carry out forced cooling operation of existing unit for 30 minutes.

- For 'Forced cooling operation' refer to the indoor unit installation manual
- (b) Stop the indoor fan and carry out forced cooling operation for 3 minutes (Liquid return).
   (c) Close the liquid service valve of the outdoor unit and carry out pump down operation (Refer to 6. PUMP DOWN).
- (d) Blow with nitrogen gas. If discolored refrigeration oil or any foreign matter is discharged by the blow, wash the pipe system or install a new pipe system.
- Remove the flare nuts from the existing pipe system. Go back to 4.CONNECTING PIPING WORK and proceed to step 2.2 Cutting connecting pipe

#### A CAUTION

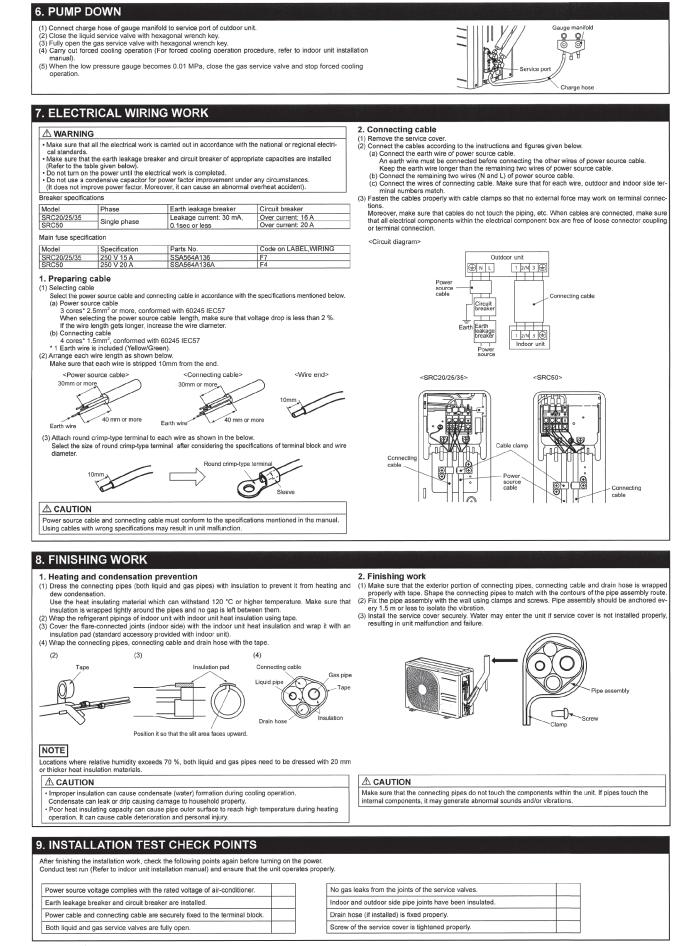
- Do not use the old flare nuts (of existing unit). Make sure that the flare nuts supplied with the (new) outdoor unit are used. If the flared / compression connection to the indcor unit is located inside the house / room then this
- pipework can't be reused.

If the existing piping is specified as liquid pipe ø9.52 or gas pipe ø12.7, refer to the following. (SRC50 only)

#### <Table of pipe size restrictions>

Additional cha	rge amount per meter of pipe	0.054 kg/m
Discolar	Liquid pipe	ø9.52
Pipe size	Gas pipe	ø12.7
Maximum one-way pipe length		10
Length covere	d without additional charge	5

Additional charge amount (kg) = {Main pipe length (m) - Length covered without additional charge shown in the table (m)} X Additional charge amount per meter of pipe shown in the table (kg/m)



# 9.3 Safety precautions in handling air-conditioners with flammable refrigerants

RSA012A090



This equipment uses flammable refrigerants. If the refrigerant There is information included in the user's manual and/or is leaked, together with an external ignition source, there is a i installation manual possibility of ignition. The user's manual should be read carefully.

A service personnel should be handing this equipment with 1± reference to the installation manual.

odour

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, 🕅 WARNING and 🕅 CAUTION

MARNING : Wrong installation would cause serious consequences such as injuries or death

A 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).

## (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 be observed.
- 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.

#### (3. 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 refrigerant The 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 safe

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

Do not pierce or burn.

Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures.

Be aware that refrigerants may not contain an

- 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.

#### NOTE

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

- 6. 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 them.
- 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 operation.
- 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).
- When there is flare connection, it must be installed outdoor

12.9

13.5

14.1

14.7

15.3

16.0

# Selection of installation location for the indoor unit

#### • Minimum installation area for indoor unit

2.4

2.5

2.6

2.7

2.8

2.9

3.0

5.5

6.0

6.4

7.0

7.5

8.0

8.6

3.7

4.0

4.3

4.7

5.0

5.4

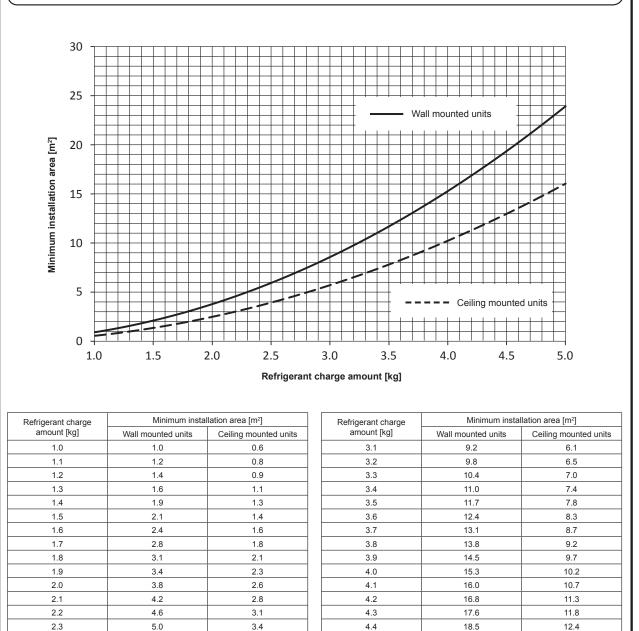
5.7

#### **A** 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.



4.5

4.6

4.7

4.8

4.9

5.0

19.3

20.2

21.1

22.0

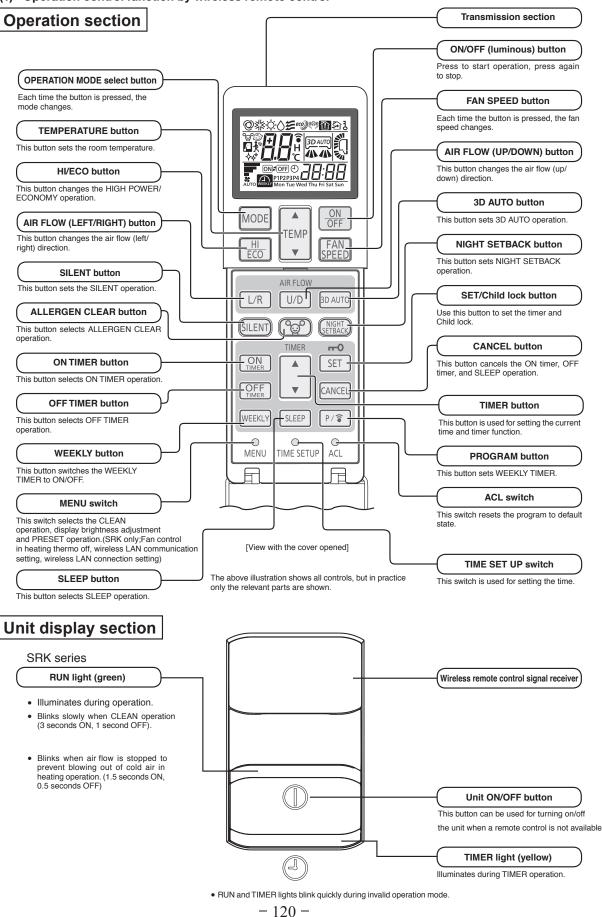
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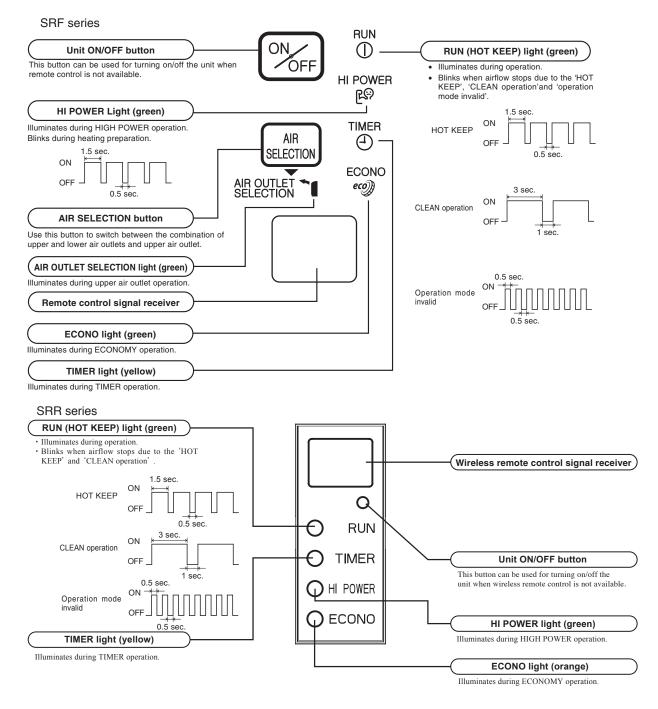
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# **10. OUTLINE OF OPERATION CONTROL BY MICROCOMPUTER**

# 10.1 SRK, SRF & SRR series

(1) Operation control function by wireless remote control





#### (2) Unit ON/OFF button

When the wireless remote control batteries become weak, or if the wireless remote control is lost or malfunctioning, this button may be used to turn the unit on and off.

# (a) Operation

Push the button once to place the unit in the automatic mode. Push it once more to turn the unit off.

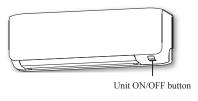
# (b) Details of operation

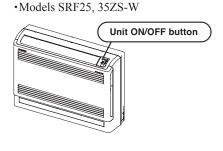
The unit will go into the automatic mode in which it automatically determines, from indoor temperature (as detected by sensor), whether to go into COOL, DRY<sup>(1)</sup> or HEAT modes.

Function Operation mode	Indoor temperature setting	Fan speed	Flap/Louver	Timer switch
COOL	About 24°C			
DRY <sup>(1)</sup>	About 25°C <sup>(1)</sup>	Auto	Auto	Continuous
HEAT	About 26°C			

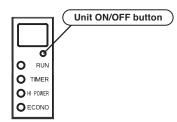
Note (1) Models SRF & SRR series only

•Models SRK20, 25, 35ZS-W





•Models SRR25, 35ZS-W



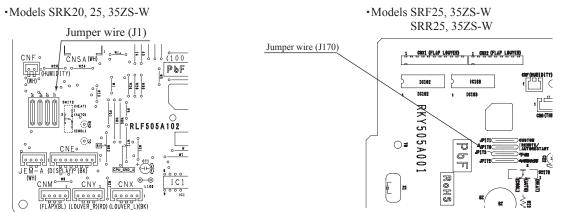
#### (3) Auto restart function

- (a) Auto restart function records the operational status of the air-conditioner immediately prior to be switched off by a power cut, and then automatically resumes operations after the power has been restored.
- (b) The following settings will be cancelled:

(i) Timer settings

# (ii) HIGH POWER operation

- Notes (1) Auto restart function is set at on when the air-conditioner is shipped from the factory. Consult with your dealer if this function needs to be switched off. (2) When power failure ocurrs, the timer setting is cancelled. Once power is resumed, reset the timer.
  - (3) If the jumper wire (J1 or J170) "AUTO RESTART" is cut, auto restart is disabled. (See the diagram at below.)

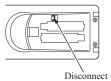


#### (4) Installing two air-conditioners in the same room

When two air-conditioners are installed in the room, use setting when the two air-conditioners are not operated with one wireless remote control. Set the wireless remote control and indoor unit.

# (a) Setting the wireless remote control

- (i) Pull out the cover and take out batteries.
- (ii) Disconnect the switching line next to the battery with wire cutters.
- (iii) Insert batteries. Close the cover.



# (b) Setting an indoor unit

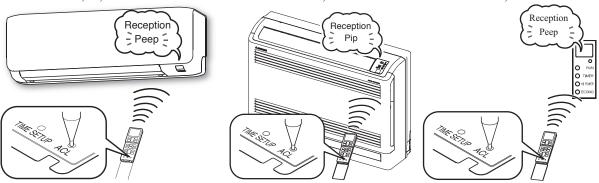
- (i) Turn off the power source, and turn it on after 1 minute.
- (ii) Point the wireless remote control that was set according to the procedure described on the left side at the indoor unit display section and send a signal by pressing the ACL switch on the wireless remote control.Since the signal is sent in about 6 seconds after the ACL switch is pressed, point the wireless remote control at the indoor unit display section for some time.
- (iii) Check that the reception buzzer sound "Peep" or "Pip" is emitted from the indoor unit. At completion of the setting, the indoor unit emits a buzzer sound "Peep" or "Pip".

(If no reception tone is emitted, start the setting from the beginning again.)

•Models SRK20, 25, 35ZS-W

•Models SRF25, 35ZS-W

•Models SRR25, 35ZS-W



# (5) Selection of the annual cooling function

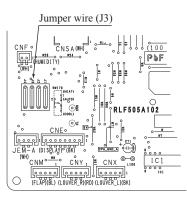
(a) The annual cooling control is valid from factory default setting. It is possible to disable by cutting jumper wire (J3 or J172), or changing the setting of DIP switch (SW2-4) on the interface kit (Option) PCB if it is connected.

Jumper wire (J3 or J172)	Interface kit (SC-BIKN2-E) SW2-4	Function
Shorted	ON	Enabled
Shorted	OFF	Disabled
Open	ON	Disabled
Open	OFF	Disabled

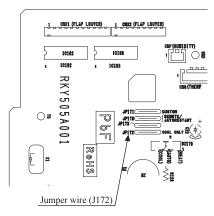
Note: (1) Default states of the jumper wire (J3 or J172) and the interface kit at the shipping from factory – On the PCB, the DIP switch (SW2-4) is set to enable the annual cooling function.

(2) To cancel the annual cooling setting, consult your dealer.

# •Models SRK20, 25, 35ZS-W

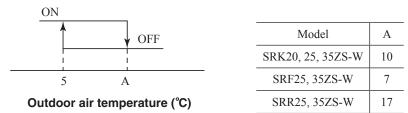


•Models SRF25, 35ZS-W SRR25, 35ZS-W



# (b) Content of control

- (i) If the outdoor air temperature sensor (TH3) detects below 5°C, the indoor unit speed is switched to 7(SRF & SRR:8)th step.
- (ii) If the outdoor air temperature sensor (TH3) detects higher than A°C, the indoor unit speed is changed to the normal control speed.

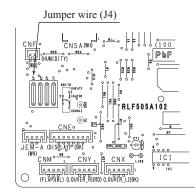


#### (6) Heating only function (SRK series only)

(a) Heating only function is enabled by disconnecting the jumper wire (J4).

# (b) Content of control

Operation mode setting	Operation mode	
COOL/DRY/FAN	FAN	
AUTO/HEAT	HEAT	



#### (7) High power operation

Pressing the HI POWER/ECONOMY button intensifies the operating power and initiates powerful cooling and heating operation for 15 minutes continuously. The wireless remote control displays HIGH POWER mark and the FAN SPEED display disappears.

- (a) During the HIGH POWER operation, the room temperature is not controlled. When it causes an excessive cooling and heating, press the HI POWER/ECONOMY button again to cancel the HIGH POWER operation.
- (b) HIGH POWER operation is not available during the DRY and the ON timer to OFF timer operations.
- (c) When HIGH POWER operation is set after ON timer operation, HIGH POWER operation will start from the set time.
- (d) When the following operation are set, HIGH POWER operation will be cancelled.
  - ① When the HI POWER/ECONOMY button is pressed again.
  - 2 When the operation mode is changed.
  - ③ When it has been 15 minutes since HIGH POWER operation has started.
  - ④ When the 3D AUTO botton is pressed.(SRK series only)
  - <sup>(5)</sup> When the SILENT botton is pressed.
  - <sup>(6)</sup> When the NIGHT SETBACK botton is pressed.
- (e) Not operable while the air-conditioner is OFF.
- (f) After HIGH POWER operation, the sound of refrigerant flowing may be heard.

#### (8) Economy operation

Pressing the HI POWER/ECONOMY button initiates a soft operation with the power suppressed in order to avoid an excessive cooling or heating. The unit operate  $1.5^{\circ}$ C higher than the setting temperature during cooling or  $2.5^{\circ}$ C lower than that during heating. The wireless remote control displays ECONOMY mark and the FAN SPEED display disappears.

- (a) It will go into ECONOMY operation at the next time the air-conditioner runs in the following cases.
  - ① When the air-conditioner is stopped by ON/OFF button during ECONOMY operation.
  - 2 When the air-conditioner is stopped in SLEEP or OFF TIMER operation during ECONOMY operation.
  - ③ When the operation is retrieved from CLEAN or ALLERGEN CLEAR (SRK series only) operation.
- (b) When the following operation are set, ECONOMY operation will be cancelled.
  - ① When the HI POWER/ECONOMY button is pressed again.
  - 2 When the operation mode is changed from DRY to FAN.
  - ③ When the NIGHT SETBACK botton is pressed.

(c) Not operable while the air-conditioner is OFF.

(d) The setting temperature is adjusted according to the following table.

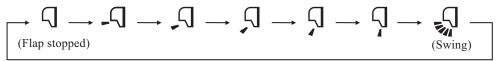
Item	Cooling	Heating	
Tomoremetros	①+0.5	①-1.0	(1) at the start of operation
Temperature adjustment	2+1.0	2-2.0	2 one hour after the start of operation
5	3+1.5	3 - 2.5	③ two hours after the start of operation

# (9) Flap and louver control (SRK and SRF series only)

• SRK series Air flow direction can be adjusted with by AIR FLOW  $\clubsuit$  (UP/DOWN) and  $\clubsuit$  (LEFT/RIGHT) button on the wireless remote control.

# (a) Flap

Every time when you press the AIR FLOW  $\blacklozenge$  (UP/DOWN) button the mode changes as follows.

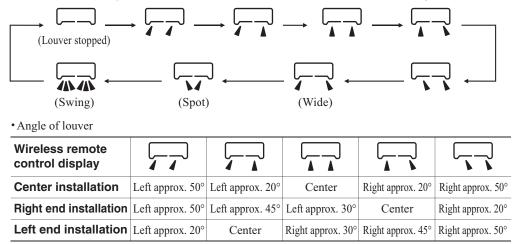


#### • Angle of flap from horizontal

Wireless remote control display	-7	<b>_</b>	Ţ	Ţ	$\mathbf{c}_{\mathbf{r}}$
COOL, DRY, FAN	Approx. 25°	Approx. 30°	Approx. 40°	Approx. 50°	Approx. 60°
HEAT	Approx. 25°	Approx. 35°	Approx. 50°	Approx. 60°	Approx. 70°

#### (b) Louver

Every time when you press the AIR FLOW (LEFT/RIGHT) button the mode changes as follows.



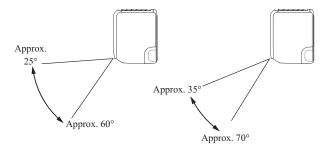
#### (c) Swing

(i) Swing flap

Flap moves in upward and downward

directions continuously.

♦ In COOL, DRY, FAN operation ♦ In HEAT operation





Louver moves in left and right directions continuously.

(ii) Swing louver

# (d) Memory flap (Flap or louver stopped)

When you press the AIR FLOW (UP/DOWN or LEFT/RIGHT) button once while the flap or louver is operating, it stops swinging at the position. Since this angle is memorized in the microcomputer, the flap or louver will automatically be set at this angle when the next operation is started.

# ♦ SRF series

Control the flap by AIR FLOW  $\blacklozenge$  (UP/DOWN) button on the wireless remote control.

# (a) Flap

Each time when you press the AIR FLOW  $\clubsuit$  (UP/DOWN) button the mode changes as follows.

• Angle of Flap from horizontal

Remote control display	່ດ	້ດ	້ຳ	<b>`</b> ו	<b>-</b> []
COOL , DRY, FAN	Approx. 60°	Approx. 50°	Approx. 38°	Approx. 21.5°	Approx. 12°
HEAT	Approx. 44°	Approx. 32°	Approx. 21.5°	Approx. 12°	Approx. 5°

# (b) Swing

(i) Swing flap

Flap moves in upward and downward directions continuously.



#### (c) Memory flap (Flap stopped)

When you press the AIR FLOW button once while the flap is operating, it stops swinging at the position. Since this angle is memorized in the microcomputer, the flap will automatically be set at this angle when the next operation is started.

#### (d) When not operating

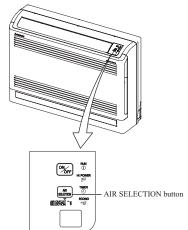
The flap returns to the position of air flow directly below, when operation has stopped.

# (10) Air outlet selection (SRF series only)

# (a) AIR SELECTION button can switch between the combination of upper and lower air outlets and upper air outlet. Not operable while the air-conditioner is OFF.

- (i) Each time the AIR SELECTION button is pressed. The combination of the upper and lower air outlets and the upper air outlet can be switched.
- (ii) When the upper air outlet is selected, AIR OUTLET SELECTION light on the unit display area will light green.

Upper and lower air outlets	────→ Upper air outlet ───
AIR OUTLET SELECTION light : OFF	AIR OUTLET SELECTION light : ON



# (b) Auto air outlet selection

# (i) COOL, DRY operation

- In case both lower and upper outlets operation is selected in Cooling or Dry operation, both outlets will be kept for sixty minutes after the start or until indoor temperature is below the setting point. And then the air outlet will change to the upper outlet. That state will be maintained until switch is turned off.
- 2) In case both outlets operation with auto fan speed mode is selected, the upper outlet will be kept for ten minutes after the start or until indoor temperature is close to reaching the setting point. And then the air outlet will change to both outlets in order to spread comfort air to every corner.

# (ii) HEAT operation

- In case both lower and upper outlets operation with auto fan speed mode is selected, the lower outlet will be kept for twenty minutes after the start or until room temperature is close to reaching the setting point. And then the air outlet will change to both outlets. That state will be maintained until the switch is turned off.
- 2) Automatic adjustment of lower air outlet direction prevents stirring up of warm air and keeps optimum comfort at floor level.

# (11) 3D auto operation (SRK series only)

Control the flap and louver by 3D AUTO button on the wireless remote control.

Fan speed and air flow direction are automatically controlled, allowing the entire indoor to efficiently conditioned.

- (a) During cooling and heating (Including auto cooling and heating)
  - (i) Air flow selection is determined according to indoor temperature and setting temperature.

Operation mode	Air flow selection				
Operation mode	AL	ЛО	HI	MED	LO
Cooling	Room temp. – Setting temp. >5°C	Room temp. – Setting temp. $\leq 5^{\circ}C$			
Cooling	HIGH POWER	AUTO	ні	MED	IO
Heating	Setting temp. – Room temp. >5°C	Setting temp. – Room temp. $\leq 5^{\circ}C$		MED	LU
neating	HIGH POWER	AUTO			

(ii) Air flow direction is controlled according to the room temperature and setting temperature.

1) When 3D auto operation starts

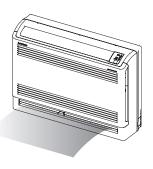
	Cooling Heating			
Flap	Up/down swing			
Louver	Wide (Fixed)	Center (Fixed)		

2) When Room temp. – Setting temp. is ≤ 5°C during cooling and when setting temp. – Room temp. is ≤ 5°C during heating, the system switches to the following air flow direction control. After the louver swings left and right symmetrically for 3 cycles, control is switched to the control in 3).

	Cooling Heating			
Flap	Horizontal blowing (Fixed)	Slant forwardl blowing (Fixed)		
Louver	Left/right swing			

3) After the flap swings for 5 cycles, control is switched to the control in 4).

	Cooling	Heating		
Flap	Up/down swing			
Louver	Center (Fixed)			



4) For 5 minutes, the following air flow direction control is carried out.

	Cooling Heating			
Flap	Horizontal blowing (Fixed) Slant forwardl blowing			
Louver	Wide (Fixed)			

5) After 5 minutes have passed, the air flow direction is determined according to the room temperature and setting temperature.

Operation mode	Air flow direction contorol			
Cooling	Room temp. – Setting temp. ≦2°C	$2^{\circ}C < \text{Room temp.} - \text{Setting temp.} \leq 5^{\circ}C$	Room temp. – Setting temp. $> 5^{\circ}C$	
Cooling	The control in 4) continues.	Control returns to the control in 2).	Control returns to the control in 1).	
Heating	Setting temp. – Room temp. ≦2°C	$2^{\circ}C < Setting temp Room temp. \leq 5^{\circ}C$	Setting temp. – Room temp. $> 5^{\circ}C$	
	The control in 4) continues.	Control returns to the control in 2).	Control returns to the control in 1).	

#### (b) During DRY operation

Flap	Horizontal blowing (Fixed)
Louver	Wide (Fixed)

### (12) Timer operation

#### (a) Comfortable timer setting (ON timer)

If the timer is set at ON when the operation select switch is set at the cooling or heating, or the cooling or heating in auto mode operation is selected, the comfortable timer starts and determines the starting time of next operation based on the initial value of 15 minutes and the relationship between the indoor temperature at the setting time (temperature of room temperature sensor) and the setting temperature.

#### (b) Sleep timer operation

Pressing the SLEEP button causes the temperature to be controlled with respect to the set temperature.

#### (c) OFF timer operation

The Off timer can be set at a specific time (in 10-minute units) within a 24-hour period.

#### (d) Weekly timer operation

Timer operation (ON timer, OFF timer) can be set up to 4 times a day for each weekday.

Note Timer operation from wireless remote control becomes invarid when you connect the interface kit (such as SC-BIKN2-E and WF-RAC).

(e) Combination of patterns which can be set for the timer operations

Item Item	Sleep timer	OFF timer	ON timer	Weekly timer
Sleep timer		×	0	×
OFF timer	×		0	×
ON timer	0	0		×
Weekly timer	×	×	×	

Notes (1)  $\bigcirc$ : Allowed  $\times$ : Not

(2) Since the ON timer, sleep timer and OFF timer are set in parallel, when the times to turn ON and OFF the air-conditioner are duplicated, the setting of the OFF timer has priority.

#### (13) Silent mode

As "Silent mode start" signal is received from the wireless remote control, it operates by dropping the outdoor fan tap and the compressor command speed.

	SR	K20	SRK25, SR	25, SRR25	SRK35, SRF35, SRR35		
	Cooling	Heating	Cooling	Heating	Cooling	Heating	
Outdoor fan speed (Upper limit)	4th speed	4th speed	4th speed	4th speed	5th speed	4th speed	
Compressor speed (Upper limit)	30 rps	46 rps	37 rps	49(46) rps	46 rps	56 rps	

NOTE (1) Value in () is for SRR series.

#### (14) Night setback

As "Night setback" signal is received from the wireless remote control, the heating operation starts with the setting temperature at 10°C.

#### (15) Air flow range setting (SRK series only)

Take the air-conditioner location into account and adjust the left/right air flow range to maximize air-conditioning.

## (a) Setting

(i) If the air-conditioning unit is running, press the ON/OFF button to stop.

The installation location setting cannot be made while the unit is running.

(ii) Press the AIR FLOW U/D (UP/DOWN) button and the

AIR FLOW L/R (LEFT/RIGHT) button together for 5 seconds or more.

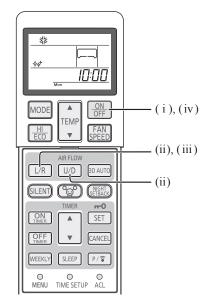
The installation location display illuminates.

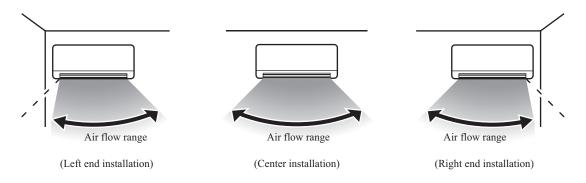
(iii) Setting the air-conditioning installation location.

Press the AIR FLOW L/R (LEFT/RIGHT) button and adjust to the desired location.

Each time the AIR FLOW L/R (LEFT/RIGHT) button is pressed, the indicator is switched in the order of:







(iv) Press the ON/OFF button.

The air-conditioner's installation location is set.

Press within 60 seconds of setting the installation location (while the installation location setting display illuminates).

#### (16) Display brightness adjustment (SRK series only)

This function can be used when it is necessary to adjust the brightness of unit display.

Brightness level	Run light	Timer light
LV2	100%	100%
LV1	50%	50%
LV0	0%	0%

Note(1) When the unit displays self diagnosis or service mode, brightness level is always LV2.

#### (17) Wireless LAN connection function (SRK series only)

# (a) Operating conditions

When a signal of wireless LAN connection setting was received from a remote control during all air-conditioners stop

# (b) Detail of operation

- (i) A signal which corresponds to the signal received from a remote control is sent to interface.
- (ii) A buzzer for confirmation of receipt rings.

#### (c) Reset conditions

- When either of the following conditions is satisfied
- (i) When a reception complete signal was received from interface
- (ii) When an interface communication setting OFF signal was received from a remote control

Note: Regarding a long buzzer sound (In wireless LAN connection setting)

When RUN light and TIMER light blink simultaneously (at an interval of 2 seconds) and you push the remote control button, the indoor unit may emit a long buzzer sound for approximately 3 seconds. The occurrence of this buzzer sound is not abnormal.

#### (18) Fan control during heating thermostat OFF (SRK series only)

- (i) Following fan controls during the heating thermostat OFF can be selected with the wireless remote control.1) Normal thermostat operation 2) Fireplace 3) Interval 4) Stop
- (ii) When the "Normal thermostat operation" is selected, the indoor fan is controlled by HOT KEEP.
- (iii) When the "Fireplace" is selected, it is operated with the set fan speed also in the thermostat OFF condition.

(iv) If the "Interval" is selected, following controls are performed:

- 1) If the thermostat is turned OFF during the heating operation, the indoor unit turns OFF the indoor fan.
- 2) Indoor fan OFF is fixed for 5 minutes. After the 5 minutes, the indoor fan is operated at ① tap for 1 minute.
- 3) After operating at (1) tap for 1 minute, the indoor fan moves to the state of 1) above.
- (v) When the "Stop" is selected, the fan on the indoor unit of which the thermostat has been turned OFF, is turned OFF.

Note To use "Stop" function, additional work in which the suction temperature sensor can detect the room temperature appropriately is required. Otherwise, it may take time to return to heating and the heating capacity may be insufficient.

# (19) Outline of heating operation

#### (a) Operation of major functional components in heating mode

	Heating								
	Thermostat ON	Thermostat OFF	Failure						
Compressor	ON	OFF	OFF						
Indoor fan motor	ON	ON(HOT KEEP)*	OFF						
Outdoor fan motor	ON	OFF (few minutes ON)	OFF						
4-way valve	ON	ON	OFF (3 minutes ON)						

\*When a wired remote control is connected, a signal of a wired remote control is priority. HOT KEEP, Fireplace, Interval and Stop can be established.

In the case, indoor air temperature is detected by sensor on the wired remote control.

#### (b) Details of control at each operation mode (pattern)

#### (i) Fuzzy operation

Deviation between the indoor temperature setting correction temperature and the return air temperature is calculated in accordance with the fuzzy rule, and used for control of the air capacity and the compressor speed. •SRK series

Model Fan speed	SRK20ZS-W	SRK25ZS-W	SRK35ZS-W
Auto	20-115rps	20-115rps	20-115rps
н	20-115rps	20-115rps	20-115rps
MED	20-86rps	20-104rps	20-108rps
LO	20-70rps	20-84rps	20-96rps
ULO	20-44rps	20-54rps	20-60rps

#### •SRF series

Model Fan speed	SRF25ZS-W	SRF35ZS-W	Model Fan speed	SRR25ZS-W	SRR35ZS-W
Auto	20-102rps	20-115rps	Auto	20-102rps	20-115rps
н	20-102rps	20-115rps	HI	20-102rps	20-115rps
MED	20-76rps	20-98rps	MED	20-72rps	20-76rps
LO	20-66rps	20-92rps	LO	20-58rps	20-62rps
ULO	20-58rps	20-80rps	ULO	20-42rps	20-46rps

•SRR series

When the defrost operation, protection device, etc. is actuated, operation is performed in the corresponding mode.

#### (ii) Hot keep operation

If the hot keep operation is selected during the heating operation, the indoor blower is controlled based on the temperature of the indoor heat exchanger (Th2) to prevent blowing of cool wind.

However, if the fan speed setting is Hi and room temperature is 19°C or higher, this control is not executed.

#### (c) Defrost operation

- (i) Starting conditions (Defrost operation can be started only when all of the following conditions are satisfied.)
  - 1) After start of heating operation

When it elapsed 35 minutes (Accumulated compressor operation time)

2) After end of defrost operation

When it elapsed 35 minutes (Accumulated compressor operation time)

3) Outdoor heat exchanger temperature sensor (TH2)

When the temperature has been below -5°C for 3 minutes continuously

- 4) The difference between the outdoor air temperature sensor and the outdoor heat exchanger sensor temperature (TH3-TH2)
  - The outdoor air temperature  $\geq 0^{\circ}$ C : 7°C or higher
  - -15°C  $\leq$  The outdoor air temperature < 0°C : 3/15 × The outdoor air temperature + 7°C or higher (SRK20, 25;

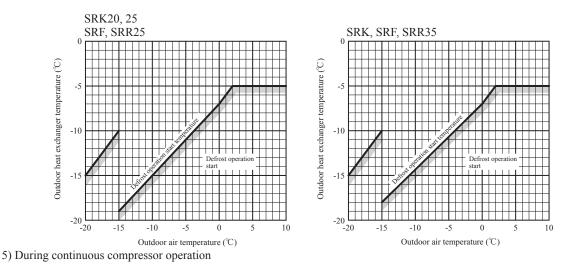
SRF, SRR25)

 $4/15 \times$  The outdoor air temperature + 7°C or higher (SRK, SRF,

SRR35)

• The outdoor air temperature < -15°C : -5°C or higher

Unit : °C



In addition, when the speed command from the indoor control of the indoor unit during heating operation has counted 0 rps 10 times or more and all conditions of 1), 2) and 3) above and the outdoor air temperature is  $3^{\circ}$ C or less are satisfied (note that when the temperature for outdoor heat exchanger temperature sensor (TH2) is  $-5^{\circ}$ C or less: 62 rps or more,  $-4^{\circ}$ C or less: less than 62 rps), defrost operation is started.

- (ii) Ending conditions (Operation returns to the heating cycle when either one of the following is satisfied.)
  - 1) Outdoor heat exchanger temperature sensor (TH2) : 13°C or higher
  - 2) Continued time of defrost operation  $\rightarrow$  For more than 15 minutes



 $\ensuremath{\mathbbmath{\mathbb{X}}}\xspace$  Depends on an operation condition, the time can be longer than 7 minutes.

#### (d) Countermeasure for excessive temperature rise (SRK series only)

If it feels excessive temperature rise in heating operation, setting temperature can be lower.

(i) Setting

Push ON/OFF button 30 seconds or more after turn on the power source and operate the air-conditioner at least once time, At completion of the setting, the indoor unit emits a buzzer sound "Pip".

(ii) Contents of control

		Signal of wireless remote control (Display)											
	18	19	20	21	22	23	24	25	26	27	28	29	30
Before setting	20	21	22	23	24	25	26	27	28	29	30	31	32
After setting	18	19	20	21	22	23	24	25	26	27	28	29	30

# (iii) Reset condition

Push ON/OFF button 30 seconds or more during setting this mode. At completion of the reset, the indoor unit emits a buzzer sound "PiPiPi".

#### (20) Outline of cooling operation

<ul> <li>(a) Operation of major functional components in cooling m</li> </ul>	(a)	- ()
---	-----	------

		Cooling	
	Thermostat ON	Thermostat OFF	Failure
Compressor	ON	OFF	OFF
Indoor fan motor	ON	ON	OFF
Outdoor fan motor	ON	OFF (few minutes ON)	OFF (few minutes ON)
4-way valve	OFF	OFF	OFF

#### (b) Detail of control in each mode (Pattern)

#### (i) Fuzzy operation

During the fuzzy operation, the air flow and the compressor speed are controlled by calculating the difference between the indoor temperature setting correction temperature and the return air temperature.

•SRR series

•SRK series

Model Fan speed	SRK20ZS-W	SRK2ZS-W	SRK35ZS-W
Auto	15-66rps	15-74rps	15-98rps
HI	15-66rps	15-74rps	15-98rps
MED	15-52rps	15-60rps	15-80rps
LO	15-42rps	15-48rps	15-70rps
ULO	15-34rps	15-38rps	15-46rps

#### •SRF series

Model Fan speed	SRF25ZS-W	SRF35ZS-W	Model Fan speed	SRR25ZS-W	SRR35ZS-W
Auto	15-72rps	15-104rps	Auto	15-74rps	15-96rps
н	15-72rps	15-104rps	HI	15-74rps	15-96rps
MED	15-48rps	15-71rps	MED	15-55rps	15-74rps
LO	15-40rps	15-58rps	LO	15-45rps	15-58rps
ULO	15-34rps	15-46rps	ULO	15-34rps	15-44rps

#### (21) Outline of dehumidifying (DRY) operationion

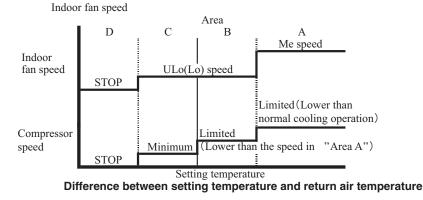
#### (a) Purpose of DRY mode

The purpose is "Dehumidification", and not to control the humidity to the target condition.

Indoor/outdoor unit control the operation condition to reduce the humidity, and also prevent over cooling.

#### (b) Outline of control

(i) Indoor fan speed and compressor are controlled by the area which is selected by the temperature difference.



(ii) The indoor unit check the current area by every 5 minutes, and operate by the next checking.

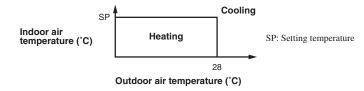
#### (c) Other

When the outdoor air temperature and room temperature is low for cooling operation, indoor unit can not operate in cooling, and dehumidify. In this case, the units operate in heating to rise the room temperature, and after that start DRY operation.

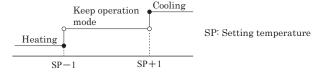
#### (22) Outline of automatic operation

## (a) Determination of operation mode

Operation mode is determined by indoor air temperature and outdoor air temperature as following.



(b) Operation mode is changes when keep cooling and heating thermostat off 20 minutes and be satisfied with following conditions. If the setting temperature is changed with the remote control, the operation mode is judged immediately.



#### Indoor air temperature – Setting temperature (°C)

%It can not be changed to heating mode if outdoor air temperature is 28°C or higher.

(c) When the unit is started again within one hour after the stop of automatic operation or when the automatic operation is se-

lected during heating, cooling or dehumidifying operation, the unit is operated in the previous operation mode.

(d) Setting temperature can be adjusted within the following range. There is the relationship as shown below between the signals of the wireless remote control and the setting temperature.

					Sig	nals of	wireles	s remot	e contro	ol (Displ	ay)			
		18	19	20	21	22	23	24	25	26	27	28	29	30
0.00	Cooling	18	19	20	21	22	23	24	25	26	27	28	29	30
Setting temperature	Dehumidifying	19	20	21	22	23	24	25	26	27	28	29	30	31
temperature	Heating	20	21	22	23	24	25	26	27	28	29	30	31	32

(e) When the unit is operated automatically with the wired remote control connected, the cooling operation is controlled according to the display temperatures while the setting temperature is compensated by +1°C during dehumidifying or by +2°C during heating.

# (23) Protective control function

(a) Dew prevention control (During cooling) (SRK and SRF series only)

Prevents dewing on the indoor unit.

#### (i) Operating conditions

When the following conditions have been satisfied for more than 30 minutes after starting operation

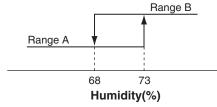
- 1) Compressor's speed is 32 rps or higher.
- 2) Detected value of humidity is 68% or higher.

#### (ii) Contents of operation

1) Air capacity control

Item	Model	SRK20, 25, 35	SRF25, 35
LO,ULO	Upper limit of compressor's speed	RangeA: 60rps, RangeB: 60rps	RangeA: 60rps, RangeB: 40(SRF35:45)rps
20,020	Indoor fan	4th speed(SRK35:5th speed)	5th speed
	Upper limit of compressor's speed	RangeA: 60rps, RangeB: 60rps	RangeA: 60rps, RangeB: 40(SRF35:45)rps
AUTO,HI,MED		Adaptable to compressor speed	Adaptable to compressor speed
	Indoor fan	(SRK20, 25:Lower limit 4th speed) (SRK35:Lower limit 5th speed)	(Lower limit 5th speed)

Note (1) Ranges A and B are as shown below.



Reset

8

Indoor heat exchanger

temperature (°C)

- When this control has continued for more than 30 minutes continuously, the following wind direction control is performed.
   SRK series
  - a) When the vertical wind direction is set at other than the vertical swing, the flaps change to the horizontal position.

b) When the horizontal wind direction is set at other than the horizontal swing, the louver changes to the vertical position. •SRF series

- a) Upper flap : Approx 38°
- b) Lower flap and Damper : Close

# (iii) Reset conditions

When any of followings is satisfied

- 1) Compressor speed is less than 32 rps. (SRF series only)
- 2) Detected value of humidity is less than 63%.

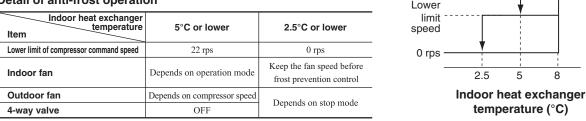
#### (b) Frost prevention control (During cooling or dehumidifying)

#### SRK series

# (i) Operating conditions

- 1) Indoor heat exchanger temperature (Th2) is lower than 5°C.
- 2) 5 minutes after reaching the compressor speed except 0 rps.

#### (ii) Detail of anti-frost operation



compressor

speed

Notes (1) When the indoor heat exchanger temperature is in the range of 2.5-5°C, the speed is reduced by 4 rps at each 20 seconds.

(2) When the temperature is lower than 2.5°C, the compressor is stopped.

(3) When the indoor heat exchanger temperature is in the range of  $5-8^{\circ}$ C, the compressor speed is been maintained.

#### (iii) Reset conditions

When either of the following condition is satisfied

- 1) The indoor heat exchanger temperature (Th2) is 8°C or higher.
- 2) The compressor speed is 0 rps.

#### ♦ SRF, SRR series

# (i) Operating conditions

- 1) Indoor heat exchanger temperature (Th2) is lower than 2.5°C.
- 2) 8 minutes after reaching the compressor command speed except 0 rps.

#### (ii) Detail of anti-frost operation

Operation mode	Protective control	Reset	
Compressor operation	Forced outage	Operation instruction	
Indoor fan	Depends on operation mode	Depends on operation mode	



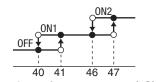
The indoor heat exchanger temperature (Th2) is 8°C or higher.

#### (c) Cooling overload protective control

#### (i) Operating conditions

When the outdoor air temperature (TH3) has become continuously for 30 seconds at 41°C or more, or 47°C or more with the compressor running, the lower limit speed of compressor is brought up.

Outdoor air temperature	41°C or more	47°C or more
Lower limit speed	30 rps	45 rps



Protective control

2.5

Outdoor air temperature (°C)

TH2(°C

P2

P3

P1

#### (ii) Detail of operation

- 1) The outdoor fan is stepped up by 3 speed step. (Upper limit 8th speed.)
- 2) The lower limit of compressor command speed is set to 30 or 45 rps and even if the calculated result becomes lower than that after fuzzy calculation, the speed is kept to 30 or 45 rps. However, when the thermo OFF, the speed is reduced to 0 rps.

#### (iii) Reset conditions

When either of the following condition is satisfied

- 1) The outdoor air temperature is lower than 40°C.
- 2) The compressor command speed is 0 rps.

#### (d) Cooling high pressure control

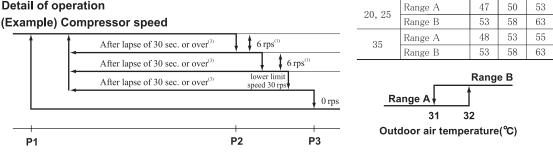
#### (i) Purpose

Prevents anomalous high pressure operation during cooling

#### (ii) Detector

Outdoor heat exchanger temperature (TH2)

# (iii) Detail of operation



# Outdoor heat exchanger temperature (°C)

Notes (1) When the outdoor heat exchanger temperature is in the range of P2-P3°C, the speed is reduced by 6 rps at each 30 seconds. (2) When the temperature is P3°C or higher, the compressor is stopped.

When the outdoor heat exchanger temperature is in the range of P1-P2°C, if the compressor speed is been maintained and the operation has (3)continued for more than 20 seconds at the same speed, it returns to the normal cooling operation.

#### (e) Cooling low outdoor temperature protective control

#### (i) Operating conditions

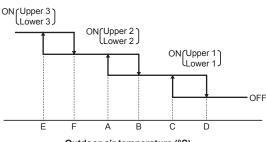
When the outdoor air temperature (TH3) is 22°C or lower continues for 20 seconds while the compressor command speed is other than 0 rps.

#### (ii) Detail of operation

- 1) The lower limit of the compressor command speed is set to 50  $\langle 44 \rangle$  (30) rps and even if the speed becomes lower than 50  $\langle 44 \rangle$  (30) rps, the speed is kept to 50  $\langle 44 \rangle$  (30) rps. However, when the thermo OFF, the speed is reduced to 0 rps.
- 2) The upper limit of the compressor command speed is set to 50  $\langle 50 \rangle$  (60) rps and even if the calculated result be-

comes higher than that after fuzzy calculation, the speed is kept to 50  $\langle 50 \rangle$  (60) rps.

Notes (1) Values in  $\langle \rangle$  are for outdoor air temperature is A or B°C (2) Values in ( ) are for outdoor air temperature is C or D°C

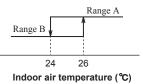


Outdoor air temperature (°C)

•Values o	f A, B,	C, D,	E, F

	Outdoor air temperature (°C)							
	Е	F	Α	В	С	D		
First time	-8	-5	0	3	22	25		
After the second times	-2	1	5	8	25	28		

Compressor speed: Upper/lower limit (rps)							
Low	er 1	Upper 1 Lower 2		Linner 2	Lower 3	I Inner 3	
Range B	Range A	opper i	LOWEI Z	Opper 2	LOWEI J	Opper 3	
30	Release	60	44	50	50	50	
-							



#### (iii) Reset conditions

When either of the following condition is satisfied

- 1) The outdoor air temperature (TH3) is D °C or higher.
- 2) The compressor command speed is 0 rps.

#### (f) Heating high pressure control

#### SRK series

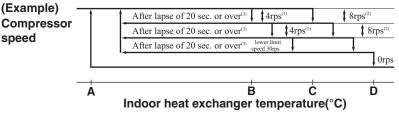
# (i) Purpose

Prevents anomalous high pressure operation during heating.

#### (ii) Detector

Indoor heat exchanger sensor (Th2)

#### (iii) Detail of operation



- Notes (1) When the indoor heat exchanger temperature is in the range of B-C °C, the speed is reduced by 4 rps at each 20 seconds. (2) When the indoor heat exchanger temperature is in the range of C - D °C, the speed is reduced by 8 rps at each 20 seconds. When the temperature is D °C
  - or higher continues for 1 minute, the compressor is stopped.
  - (3) When the indoor heat exchanger temperature is in the range of A-B °C, if the compressor speed is been maintained and the operation has continued for more than 20 seconds at the same speed, it returns to the normal heating operation
  - (4) Indoor fan retains the fan speed when it enters in the high pressure control. Outdoor fan is operated in accordance with the speed.

# Temperature list

#### Models SRK20, 25, 35

Models SRK20, 25, 35							
	A	В	С	D			
RPSmin < 50	47	52	54	58			
50 ≦ RPSmin < 92	47.5	55	57	61			
92 ≦ RPSmin ≦ 115	47.5 - 39	55 - 40	57 - 42	61			

Note (1) RPSmin: The lower one between the outdoor speed and the compressor speed

#### ♦ SRF, SRR series

#### (i) Starting condition

When the indoor heat exchanger temperature (Th2) has risen to a specified temperature while the compressor is turned on.

(ii) Compressor speed is controlled according to the zones of indoor heat exchanger temperature as shown by the following table.

		Th	Th2 <p1 p1<="" th=""><th>≦Th2<p2< th=""><th>P2≦Th2<p3< th=""><th>P3≦Th2</th></p3<></th></p2<></th></p1>		≦Th2 <p2< th=""><th>P2≦Th2<p3< th=""><th>P3≦Th2</th></p3<></th></p2<>	P2≦Th2 <p3< th=""><th>P3≦Th2</th></p3<>	P3≦Th2		
Protection control speed (NP)		Ν	Normal		Retention	NP-4rps	NP-8rps		
Sampling time (s)		Ν	lormal		20	20	20		
Unit:°C						°C			
NP Th2 P		1	P2		P3				
NP<50	47	1	52		54				
50≦NP<92	47.	5	55		55		57		
92≦NP<115	47.5	-39	55-40		57-42				
115≦NP	39	)	40		42				

#### (g) Heating overload protective control

#### (i) Indoor unit side (SRF, SRR series only)

#### 1) Operating conditions

When the outdoor air temperature (TH3) is 17°C or higher continues for 30 seconds while

the compressor command speed other than 0 rps.

#### 2) Detail of operation

The indoor fan is stepped up by 1 speed step. (Upper limit 9th speed)

#### 3) Reset conditions

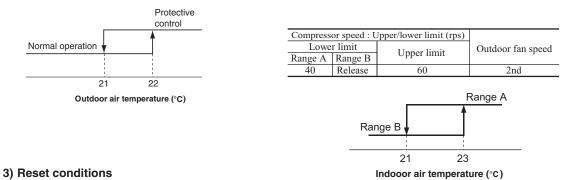
The outdoor air temperature (TH3) is lower than 16°C.

#### (ii) Outdoor unit side

#### 1) Operating conditions

When the outdoor air temperature (TH3) is 22°C or higher continues for 30 seconds while the compressor speed other than 0 rps. **2) Detail of operation** 

- a) Taking the upper limit of compressor speed at 60 rps, if the output speed obtained with the fuzzy calculation exceeds the upper limit, the upper limit value is maintained.
- b) The lower limit of compressor speed is set to 40 rps and even if the calculated result becomes lower than that after fuzzy calculation, the speed is kept to 40 rps. However, when the thermostat OFF, the speed is reduced to 0 rps.
- c) Inching prevention control is activated and inching prevention control is carried out with the minimum speed set at 40 rps.
- d) The outdoor fan speed is set on 2nd speed.



The outdoor air temperature (TH3) is lower than 21°C.

#### (h) Heating low outdoor temperature protective control

#### (i) Protective control I

#### 1) Operating conditions

When the outdoor air temperature (TH3) is lower than -2°C or higher continues for 30 seconds while the compressor command speed is other than 0 rps

#### 2) Detail of operation

The lower limit compressor command speed is changed as shown in the figure below.

Lower limit 45 rps(SRK, SRF, SRR 35 : 55 rps)

## Outdoor air temperature(°C)

# 3) Reset conditions

- When either of the following condition is satisfied
- a) The outdoor air temperature (TH3) becomes 2°C.
- b) The compressor command speed is 0 rps.

#### (i) Compressor overheat protection

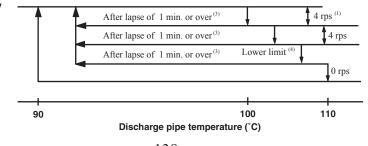
# (i) Purpose

It is designed to prevent deterioration of oil, burnout of motor coil and other trouble resulting from the compressor overheat.

# (ii) Detail of operation

1) Speeds are controlled with temperature detected by the temperature sensor mounted on the discharge pipe.

#### (Example) Fuzzy



- Notes (1) When the discharge pipe temperature is in the range of 100-110°C, the speed is reduced by 4 rps.
  - (2) When the discharge pipe temperature is raised and continues operation for 20 seconds without changing, then the speed is reduced again by 4 rps.
     (3) If the discharge pipe temperature is in the range of 90-100°C even when the compressor speed is maintained for 3 minutes when the temperature is in the
    - range of 90-100°C, the speed is raised by 1 rps and kept at that speed for 1 minute. This process is repeated until the command speed is reached.
  - (4) Lower limit speed

Model	Cooling	Heating
Lower limit speed	15 rps	20 rps

 If the temperature of 110°C is detected by the temperature sensor on the discharge pipe, then the compressor will stop immediately.

When the discharge pipe temperature drops and the time delay of 3 minutes is over, the unit starts again within 1 hour but there is no start at the third time.

# (j) Current safe

# (i) Purpose

Current is controlled not to exceed the upper limit of the setting operation current.

#### (ii) Detail of operation

Input current to the converter is monitored with the current sensor fixed on the printed circuit board of the outdoor unit and, if the operation current value reaches the limiting current value, the compressor command speed is reduced. If the mechanism is actuated when the compressor command speed is less than 30 (SRF, SRR35:36) rps, the compressor is stopped immediately. Operation starts again after a delay time of 3 minutes.

#### (k) Current cut

# (i) Purpose

Inverter is protected from overcurrent.

# (ii) Detail of operation

Output current from the inverter is monitored with a shunt resistor and, if the current exceeds the setting value, the compressor is stopped immediately. Operation starts again after a delay time of 3 minutes.

## (I) Outdoor unit failure

This is a function for determining when there is trouble with the outdoor unit during air-conditioning.

The compressor is stopped if any one of the following in item (i), (ii) is satisfied. Once the unit is stopped by this function, it is not restarted.

(i) When the input current is measured at 1 A or less for 3 continuous minutes or more

(ii) If the outdoor unit sends a 0 rps signal to the indoor unit 3 times or more within 20 minutes of the power being turned on

#### (m) Indoor fan motor protection

When the air-conditioner is operating and the indoor fan motor is turned ON, if the indoor fan motor has operated at 300 min<sup>-1</sup> or under for more than 30 seconds, the unit enters first in the stop mode and then stops the entire system.

#### (n) Serial signal transmission error protection

#### (i) Purpose

Prevents malfunction resulting from error on the indoor  $\leftrightarrow$  outdoor signals.

#### (ii) Detail of operation

If the compressor is operating and a serial signal cannot be received from the indoor control with outdoor control having se-

rial signals continues for 7 minutes and 35 seconds, the compressor is stopped. After the compressor has been stopped, it will

be restarted after the compressor start delay if a serial signal can be received again from the indoor control.

#### (o) Rotor lock

If the motor for the compressor does not turn after it has been started, it is determined that a compressor lock has occurred and the compressor is stopped.

#### (p) Outdoor fan motor protection

If the outdoor fan motor has operated at 75 min<sup>-1</sup> or under for more than 30 seconds, the compressor and fan motor are stopped.

#### (q) Outdoor fan control at low outdoor air temperature

#### (i) Cooling

#### 1) Operating conditions

When the outdoor air temperature (TH3) is 22°C or lower continues for 30 seconds while the compressor speed is other than 0 rps

#### 2) Detail of operation

After the outdoor fan operates at A speed for 60 seconds; the corresponding outdoor heat exchanger temperature shall im plement the following controls.

• Value of A

	Outdoor fan
Outdoor temperature > 10°C	2nd speed
Outdoor temperature ≦ 10°C	1st speed

a) Outdoor heat exchanger temperature (TH2)  $\leq 21^{\circ}$ C

After the outdoor fan speed drops (down) to 1 speed for 60 seconds; if the outdoor heat exchanger temperature is lower than 21°C, gradually reduce the outdoor fan speed by 1 speed. (Lower limit 1st speed)

b) 21°C < Outdoor heat exchanger temperature (TH2)  $\leq 38$ °C

After the outdoor fan speed maintains at A speed for 20 seconds; if the outdoor heat exchanger temperature is 21°C-38°C, maintain outdoor fan speed.

c) Outdoor heat exchanger temperature (TH2) > 38°C

After the outdoor fan speed rises (up) to 1 speed for 60 seconds; if the outdoor heat exchanger temperature is higher than 38°C, gradually increase outdoor fan speed by 1 speed. (Upper limit 3rd speed)

#### 3) Reset conditions

- When either of the following conditions is satisfied
- a) The outdoor air temperature (TH3) is 24°C or higher.
- b) The compressor command speed is 0 rps.

#### (ii) Heating

#### 1) Operating conditions

When the outdoor air temperature (TH3) is 0°C (In addition SRC35:6°C) or lower continues for 30 seconds while the compressor command speed is other than 0 rps.

# 2) Detail of operation

The outdoor fan is stepped up by 2 speed step at each 20 seconds. (Upper limit 8th speed (In addition SRC35:1 speed step up corresponding to inverter number of rotations when the outdoor air temperature (TH3) is 6°C or lower))

#### 3) Reset conditions

- When either of the following conditions is satisfied
- a) The outdoor air temperature (TH3) is 2°C (SRC35:7°C) or higher.
- b) The compressor command speed is 0 rps.

#### (r) Drain pump motor (DM) control (SRR series only)

(i) Drain pump motor (DM) is operated during the cooling or dehumidifying mode operations and simultaneously wity the compressor ON. The DM continues to operate for 5 minutes after the operation stop, anomalous stop, thermostat stop or when it was switched from the cooling and dehumidifying operations to the fan or heating operation.

Indoor unit operation mode						]
	Stop <sup>(1)</sup>	COOL	DRY	FAN <sup>(2)</sup>	HEAT	Notes (1) Including the stop from the cooling, dehumic
Compressor ON			Control A			and heating, and the anomalous stop (2) Including the "FAN" operation according to
Compressor OFF			Control B		-	mismatch of operation modes

1) Control A

a) If the float switch detects any anomalous draining condition, the unit stops with the anomalous stop and the drain pump starts. After detecting the anomalous condition, the drain pump motor continues to be ON.

- b) It keeps operating while the float switch is detecting the anomalous condition.
- 2) Control B

If the float switch detects any anomalous drain condition, the drain pump motor is turned ON for 5 minutes, and at 10 seconds after the drain pump motor OFF it checks the float switch. If it is normal, the unit is stopped under the normal mode or, if there is any anomalous condition, displayed by the flashing of display lights and the drain pump motor is turned ON. (The ON condition is maintained during the drain detection.)

# (s) Refrigeration cycle system protection

#### (i) Starting conditions

- 1) When 5 minutes have elapsed after the compressor ON or the completion of the defrost control
- 2) Other than the defrost control
- 3) When, after satisfying the conditions of 1) and 2) above, the compressor speed, room temperature (Th1) and indoor heat exchanger temperature (Th2) have satisfied the conditions in the following table for 5 minutes:

Operation mode	Compressor speed (N)	Room temperature (Th1)	Room temperature (Th1)/ Indoor heat exchanger temperature (Th2)
Cooling	50≦N	$10 \leq Th 1 \leq 40$	Th1-4 <th2< td=""></th2<>
Heating <sup>(1)</sup>	50≦N	$0 \leq Th1 \leq 40$	Th2 <th1+6< td=""></th1+6<>

Note (1) Except that the fan speed is Hi in heating operation.

#### (ii) Contents of control

1) When the conditions of (i) above are satified, the compressor stops

2) Error stop occurs when the compressor has stopped 3 times within 60 minutes.

#### (iii) Reset condition

When the compressor has been turned OFF

#### (24) Defrost heater control

# (a) Starting conditions

When all of the following conditions (i) – (iv) have been met for 1 minute continuously, with the compressor frequency at 0 rps or higher:

- (i) Operation is in the heating mode.
- (ii) Outdoor heat exchanger sensor(TH2) temperature is lower than -2.0°C.
- (iii) Outdoor air temperature sensor(TH3) temperature is lower than 0°C.
- (iv) 1) Outdoor air temperature, at 0°C

Difference between the outdoor air temperature and the outdoor heat exchanger sensor temperature is larger than 4°C.

- 2) Outdoor air temperature, higher than  $-5^{\circ}$ C and lower than  $0^{\circ}$ C
  - Difference between the outdoor air temperature and the outdoor heat exchanger sensor temperature is larger than 2°C.
- Outdoor air temperature, higher than -10°C and lower than -5°C
   Difference between the outdoor air temperature and the outdoor heat exchanger sensor temperature is larger than 0°C.
- 4) Outdoor air temperature, higher than  $-15^{\circ}$ C and lower than  $-10^{\circ}$ C

Difference between the outdoor air temperature and the outdoor heat exchanger sensor temperature is larger than  $-5^{\circ}$ C. 5) Outdoor air temperature, lower than  $-15^{\circ}$ C

Difference between the outdoor air temperature and the outdoor heat exchanger sensor temperature is larger than -5°C.

#### (b) Releasing conditions

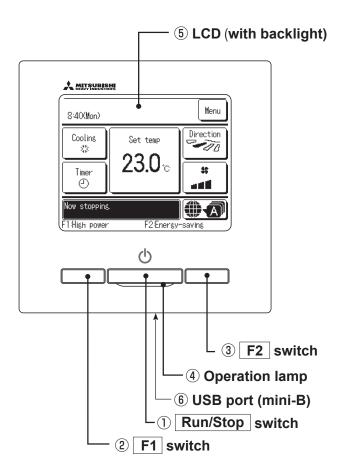
When either of the following conditions is satisfied

- (i) Compressor frequency becomes 0 rps.
- (ii) When even one of the starting conditions of (a) is lost (When continuing for 1 minute)
- Note (1) The heater is forced to turn off during defrost operation. When the defrost operation is over and the outdoor fan is turned on, the heater is forced to turn on for 5 minutes. If the outdoor fan is turned off, the heater is also turned off.

# 10.2 Models FDTC25VH1, 35VH1

# 10.2.1 Remote control (Option parts)

# (1) Wired remote control Model RC-EX3A



Touch panel system, which is operated by tapping the LCD screen with a finger, is employed for any operations other than the ①Run/Stop, ②F1 and ③F2 switches.

# 1 Run/Stop switch

One push on the button starts operation and another push stops operation.

# 2 F1 switch3 F2 switch

This switch starts operation that is set in F1/F2 function change.

# **④** Operation lamp

This lamp lights in green(yellow-green) during operation. It changes to red (orange) if any error occurs. Operation lamp luminance can be changed.

#### **(5)** LCD (with backlight)

A tap on the LCD lights the backlight. The backlight turns off automatically if there is no operation for certain period of time. Lighting period of the backlight lighting can be changed. If the backlight is ON setting, when the screen is tapped while the backlight is turned off, the backlight only is turned on. (Operations with switches (1,2) and (3) are excluded.)

# 6 USB port

USB connector (mini-B) allows connecting to a personal computer. For operating methods, refer to the instruction

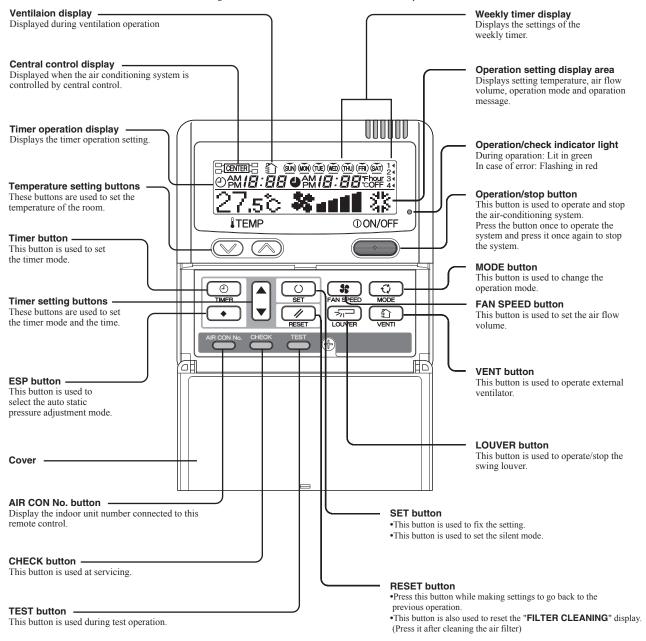
manual attached to the software for personal computer (remote control utility software).

Note(1) When connecting to a personal computer, do not connect simultaneously with other USB devices. Please be sure to connect to the computer directly,without going through a hub, etc.

#### Model RC-E5

The figure below shows the remote control with the cover opened. Note that all the items that may be displayed in the liquid crystal display area are shown in the figure for the sake of explanation. Characters displayed with dots in the liquid crystal display area are abbreviated.

The figure below shows the remote control with the cover opened.

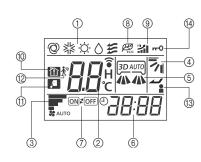


\* All displays are described in the liguid crystal display for explanation.

### (2) Wireless remote control

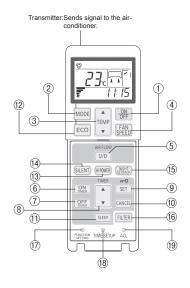
### RCN-E2

Indication section



1	OPERATION MODE display	Indicates selected operation mode.
	SET TEMP display	Indicates set temperature.
(2)	SLEEP TIMER time display	Indicates the amount of time remaining on the sleep timer.
	Indoor function setting number display	Indicates the setting number of the indoor function setting.
3	FAN SPEED display	Indicates the selected air flow volume.
4	UP/DOWN AIR FLOW display	Indicates the up/down louver position.
(5)	LEFT/RIGHT AIR FLOW display	Indicates the left/right louver position.
6	Clock display	Indicates the current time. If the timer is set, the ON TIMER and OFF TIMER setting times are indicated.
$\overline{7}$	ON/OFF TIMER display	Displayed when the timer is set.
8	ECO mode display	Displayed when the energy-saving operation is active.
9	HI POWER display	Displayed when the high power operation is active.
(10)	NIGHT SETBACK display	Displayed when the home leave mode is active.
(11)	SILENT display	Displayed when the silent mode control is active.
(12)	Motion sensor display	Displayed when the infrared sensor control(motion sensor control) is enabled.
(13)	Anti draft setting display	Displayed when anti draft setting is enabled.
(14)	Child lock display	Displayed when child lock is enabled.

## Operation section



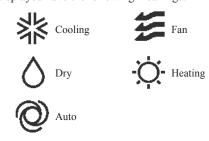
④       FAN SPEED button       The fan speed is switched in the following order: 1-speed → 2-speed → 4-speed → AUTO → 1-speed.         ⑤       U/D button       Used to determine the up/down louver position.         ⑥       ON TIMER button       Used to set the ON TIMER.         ⑦       OFF TIMER button       Used to set the OFF TIMER.         ⑦       OFF TIMER button       Used to switch the settings of the indoor function.         ⑧       SELECT button       Used to switch the settings of the indoor function.         ⑨       SET button       Used to cancel the timer settings of the indoor function.         ⑨       SET button       Used to cancel the timer setting.         ⑨       SLEEP button       Used to cancel the timer setting.         ⑨       SLEEP button       Used to cancel the timer setting.         ⑨       SLEEP button       Used to set the sleep timer.         ⑨       ECO button       Pressing this button starts the energy-saving operation.         ⑨       Pressing this button again cancels it.       Pressing this button again cancels it.         ⑨       SILENT button       Pressing this button again cancels it.         ⑨       Pressing this button again cancels it.       Pressing this button again cancels it.         ⑨       NIGHT SETBACK button       Pressing this button again cancels it. <t< th=""><th></th><th></th><th></th></t<>			
②       MODE button       Image: COOL → Image: COO	1	ON/OFF button	operate and when this is pressed once again, it stops operating.
④       FAN SPEED button       The fan speed is switched in the following order: 1-speed.         ④       FAN SPEED button       The fan speed is switched in the following order: 1-speed.         ⑤       U/D button       Used to determine the up/down louver position.         ⑥       ON TIMER button       Used to set the ON TIMER.         ⑦       OFF TIMER button       Used to set the OFF TIMER.         ⑦       OFF TIMER button       Used to switch the settings of the indoor function.         ⑧       SELECT button       Used to switch the settings of the indoor function.         ⑨       SET button       Used to determine the settings of the indoor function.         ⑨       SET button       Used to cancel the timer setting.         ⑨       SLEEP button       Used to cancel the timer setting.         ⑨       SLEEP button       Used to set the sleep timer.         ⑨       CANCEL button       Used to set the sleep timer.         ⑨       ECO button       Pressing this button starts the energy-saving operation.         ⑨       Pressing this button starts the slient mode control.       Pressing this button starts the home leave node.         ⑨       Pressing this button starts the slient mode control.       Pressing this button starts the home leave mode.         ⑨       Pressing this button starts the home leave mode.       <	2	MODE button	COOL) → <sup>(HEAT)</sup>
(1)       FAN SPEED button       → 2-speed → 3-speed → 4-speed → AUTO → 1-speed.         (5)       U/D button       Used to determine the up/down louver position.         (6)       ON TIMER button       Used to set the OFT TIMER.         (7)       OFF TIMER button       Used to set the OFT TIMER.         (8)       SELECT button       Used to set the OFF TIMER.         (8)       SELECT button       Used to switch the settings of the indoor function.         (9)       SET button       Used to determine the settings of the indoor function.         (9)       SET button       Used to cancel the timer setting.         (10)       SLEEP button       Used to set the settings of the indoor function.         (11)       SLEEP button       Used to cancel the timer setting.         (12)       SLEP button       Used to set the sleep timer.         (12)       ECO button       Pressing this button starts the energy-saving operation.         Pressing this button starts the sliph power operation.       Pressing this button starts the sliph power operation.         (13)       HI POWER button       Pressing this button starts the slient mode control.         (14)       SILENT button       Pressing this button starts the slient mode control.         (15)       NIGHT SETBACK button       Pressing this button starts the home leave mode.	3	TEMP button	Change the set temperature by pressing $\blacktriangle$ or $\blacktriangledown$ button.
6       ON TIMER button       Used to set the ON TIMER.         7       OFF TIMER button       Used to set the OFF TIMER.         8       SELECT button       Used to switch the settings of the indoor function.         9       SET button       Used to determine the settings of the indoor function.         9       SET button       Used to determine the settings of the indoor function.         10       CANCEL button       Used to determine the settings of the indoor function.         11       SLEP button       Used to determine the settings.         12       SLEP button       Used to satche button starts the energy-saving operation.         13       SLEP button       Pressing this button starts the high power operation.         14       Pressing this button starts the selient mode control.         15       Pressing this button starts the selient mode control.         16       HI POWER button       Pressing this button starts the home leave mode.         16       NIGHT SETBACK button       Pressing this button starts the ome leave mode.         16       FILTER button       Pressing this button resets FILTER SIGN.         16       FILTER button       Used to set the current time.         18       TIME SETUP switch       Used to set the current time.	4	FAN SPEED button	The fan speed is switched in the following order: 1-speed $\rightarrow$ 2-speed $\rightarrow$ 3-speed $\rightarrow$ 4-speed $\rightarrow$ AUTO $\rightarrow$ 1-speed.
⑦         OFF TIMER button         Used to set the OFF TIMER.           ⑧         SELECT button         Used to switch the time when setting the timer or adjusting the tused to switch the settings of the indoor function.           ⑨         SET button         Used to determine the setting when setting the timer or adjusting the time.           ⑨         SET button         Used to determine the settings of the indoor function.           ⑩         CANCEL button         Used to determine the settings of the indoor function.           ⑩         CANCEL button         Used to cancel the timer setting.           ⑪         SLEEP button         Used to set the sleep timer.           ⑫         ECO button         Pressing this button starts the energy-saving operation.           Pressing this button starts the high power operation.         Pressing this button starts the slient mode control.           ⑨         SILENT button         Pressing this button starts the slient mode control.           ⑨         SILENT button         Pressing this button starts the high power operation.           ⑨         Pressing this button starts the slient mode control.         Pressing this button again cancels it.           ⑲         NIGHT SETBACK button         Pressing this button starts the home leave mode.           ⑨         FILTER button         Pressing this button starts the home leave mode.           ⑦	5	U/D button	Used to determine the up/down louver position.
B         SELECT button         Used to switch the time when setting the time or adjusting the t Used to switch the settings of the indoor function.           Image: SET button         Used to switch the settings of the indoor function.           Image: SET button         Used to determine the settings of the indoor function.           Image: SET button         Used to determine the settings of the indoor function.           Image: SET button         Used to determine the settings of the indoor function.           Image: SET button         Used to cancel the time restling.           Image: SET button         Used to cancel the time restling.           Image: SET button         Used to set the sleep timer.           Image: SET button         Used to set the sleep timer.           Image: SET button         Used to set the sleep timer.           Image: SET button         Pressing this button starts the energy-saving operation.           Pressing this button starts the slient mode control.         Pressing this button starts the slient mode control.           Image: SILENT button         Pressing this button starts the slient mode control.           Image: SILENT button         Pressing this button starts the home leave mode.           Image: SILENT button         Pressing this button starts the home leave mode.           Image: SILENT button         Pressing this button starts the home leave mode.           Image: SILENT button	6	ON TIMER button	
Image: Select button         Used to switch the settings of the indoor function.           Image: Select button         Used to determine the setting when setting the timer or adjusting the time. Used to determine the settings of the indoor function. When press and hold SET button, Child Lock is enabled           Image: Select button         Used to cancel the timer setting.           Image: Select button         Used to cancel the timer setting.           Image: Select button         Used to cancel the timer setting.           Image: Select button         Used to set the sleep timer.           Image: Select button         Used to set the sleep timer.           Image: Select button         Used to set the sleep timer.           Image: Select button         Pressing this button starts the high power operation. Pressing this button again cancels it.           Image: Select button         Pressing this button starts the slient mode control. Pressing this button starts the home leave mode. Pressing this button function.           Image: FiltER button         Pressing this button freets FILTER SIGN. Pressing this button starts the home leave mode. Pressing this	7	OFF TIMER button	Used to set the OFF TIMER.
(9)         SET button         Used to determine the setting when setting the time or adjusting the time. Used to determine the settings of the indoor function. When press and hold SET button ,Child Lock is enabled           (10)         CANCEL button         Used to cancel the timer setting.           (11)         SLEEP button         Used to set the sleep timer.           (12)         SLEEP button         Pressing this button starts the energy-saving operation. Pressing this button starts the energy-saving operation. Pressing this button starts the high power operation. Pressing this button again cancels it.           (13)         HI POWER button         Pressing this button starts the home leave operation. Pressing this button starts the home leave mode. Pressing this button starts the function.           (16)         NIGHT SETBACK button         Pressing this button resets FILTER SIGN.           (17)         FUNCTION SETTING switch         Used to set the current time.	8	SELECT button	Used to switch the time when setting the timer or adjusting the time. Used to switch the settings of the indoor function.
Image: Cancel button         Used to cancel the timer setting.           Image: Cancel button         Used to set the sleep timer.           Image: Cancel button         Pressing this button starts the energy-saving operation.           Image: Cancel button         Pressing this button again cancels it.           Image: Cancel button         Pressing this button starts the high power operation.           Image: Cancel button         Pressing this button again cancels it.           Image: Cancel button         Pressing this button again cancels it.           Image: Cancel button         Pressing this button again cancels it.           Image: Cancel button         Pressing this button again cancels it.           Image: Cancel button         Pressing this button again cancels it.           Image: Cancel button         Pressing this button again cancels it.           Image: Cancel button         Pressing this button again cancels it.           Image: Cancel button         Pressing this button again cancels it.           Image: Cancel button         Pressing this button resets FILTER SIGN.           Image: Cancel button         Pressing this button again cancels it.           Image: Cancel button         Pressing this button resets FILTER SIGN.           Image: Cancel button         Pressing this button resets FILTER SIGN.           Image: Cancel button         Used to set the indoor function.	9	SET button	adjusting the time. Used to determine the settings of the indoor function.
Image: Construct of the second seco	(10)	CANCEL button	Used to cancel the timer setting.
Image: Book of the sector of the se	(11)	SLEEP button	Used to set the sleep timer.
III POWER button         Pressing this button again cancels it.           Image: SILENT button         Pressing this button starts the silent mode control. Pressing this button starts the home leave mode. Pressing this button resets FILTER SIGN.           Image: Filter Button         Pressing this button resets FILTER SIGN.           Image: TIME SETUP switch         Used to set the indoor function.	(12)	ECO button	Pressing this button starts the energy-saving operation.
Image: Wight of the second s	(13)	HI POWER button	
Initial Section         Pressing this button again cancels it.           Image: Imag	(14)	SILENT button	
(6)         FILTER button         Pressing this button resets FILTER SIGN.           (7)         FUNCTION SETTING switch         Used to set the indoor function.           (8)         TIME SETUP switch         Used to set the current time.	(15)	NIGHT SETBACK button	
TIME SETUP switch     Used to set the current time.	(16)	FILTER button	Pressing this button resets FILTER SIGN.
	(17)	FUNCTION SETTING switch	
	(18)	TIME SETUP switch	Used to set the current time.
(19) ACL switch Used to reset the microcomputer.	(19)	ACL switch	

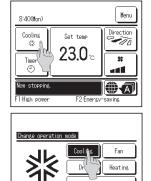
# 10.2.2 Operation control function by the wired remote control

# Model RC-EX3A

### (1) Switching sequence of the operation mode switches of remote control

- (a) Tap the change operation mode button on the TOP screen.
- (b) When the change operation mode screen is displayed, tap the button of desired mode.
- (c) When the operation mode is selected, the display returns to the TOP screen. Icons displayed have the following meanings.





Back

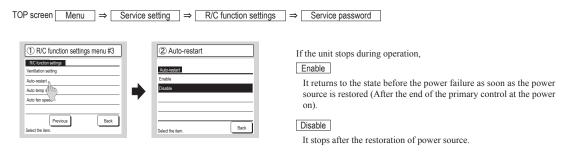
- Notes(1) Operation modes which cannot be selected depending on combinations of indoor unit and outdoor unit are not displayed.
  - (2) When the Auto is selected, the cooling and heating switching operation is performed automatically according to indoor and outdoor temperatures.

### (2) CPU reset

Reset CPU from the remote control as follows.

TOP screen Menu ⇒ Service	setting ⇒ Service & Maintenance	⇒ Service password
Service & Maintenance #2	Special settings      Second settings      CPU reset     Reation of      Touch panel-withmation      Back      Select the tem.	CPU reset Microcomputers of indoor unit and outdoor unit connected are reset (State of restoration after power failure).
The selected screen is displayed.	The selected screen is displayed.	

(3) Power failure compensation function (Electric power source failure) Enable the Auto-restart function from the remote control as follows.



- Since the status of remote control is retained in memory always, it restarts operations according to the contents of memory as soon as the power source is restored. Although the timer mode is cancelled, the weekly timer, peak cut timer and silent mode timer operate according to the following contents:
  - When the clock setting is valid : These timer settings are also valid.
- When the clock setting is invalid : These timer settings become "Invalid" since the clock setting is invalid. These timer settings have to be changed to "Valid" after the timer setting.

- •Content memorized with the power failure compensation are as follows.
  - Note(1) Items (f) and (g) are memorized regardless whether the power failure compensation is effective or not while the setting of silent mode is cancelled regardless whether the power failure compensation is effective or not.
  - (a) At power failure Operating/stopped
  - If it had been operating under the off timer mode, sleep timer mode, the state of stop is memorized.
  - (b) Operation mode
  - (c) Air flow volume mode
  - (d) Room temperature setting
  - (e) Louver auto swing/stop
  - However, the stop position (4-position) is cancelled so that it returns to Position (1).
  - (f) "Remote control function items" which have been set with the administrator or installation function settings ("Indoor function items" are saved in the memory of indoor unit.)
  - (g) Weekly timer, peak-cut timer or silent mode timer settings
  - (h) Remote control function setting

#### (4) Alert displays

If the following (a) to (c) appear, check and repair as follows.

#### (a) Communication check between indoor unit and remote control



• This appears if communications cannot be established between the remote control and the indoor unit.

Check whether the system is correctly connected (indoor unit, outdoor unit,

remote control) and whether the power source for the outdoor unit is connected.

### (b) Clock setting check



#### (c) Misconnection



- This appears when the timer settings are done without clock setting. Set the clock setting before the timer settings.
- This appears when something other than the air-conditioner has been connected to the remote control.

Check the location to which the remote control is connected.

### Model RC-E5

#### (1) Switching sequence of the operation mode switches of remote control

DRY O	COOL	FAN	HEAT	AUTO
<u>ن</u>				

#### (2) CPU reset

This functions when "CHECK" and "ESP" buttons on the remote control are pressed simultaneously. Operation is same as that of the power source reset.

#### (3) Power failure compensation function (Electric power source failure)

- This becomes effective if "Power failure compensation effective" is selected with the setting of remote control function.
- Since it memorizes always the condition of remote control, it starts operation according to the contents of memory no sooner than normal state is recovered after the power failure. Although the auto swing stop position and the timer mode are cancelled, the weekly timer setting is restored with the holiday setting for all weekdays. After recovering from the power failure, it readjusts the clock and resets the holiday setting for each weekday so that the setting of weekly timer becomes effective.

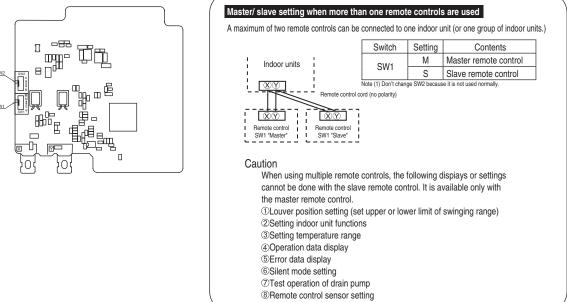
• Content memorized with the power failure compensation are as follows.

- Note (1) Items (f), (g) and (h) are memorized regardless whether the power failure compensation is effective or not while the setting of silent mode is cancelled regardless whether the power failure compensation is effective or not.
  - (a) At power failure Operating/stopped

If it had been operating under the off timer mode, sleep timer mode, the state of stop is memorized. (Although the timer mode is cancelled at the recovery from power failure, the setting of weekly timer is changed to the holiday setting for all weekdays.)

- (b) Operation mode
- (c) Air flow volume mode
- (d) Room temperature setting
- (e) Louver auto swing/stop
- However, the stop position (4-position) is cancelled so that it returns to Position (1).
- (f) "Remote control function items" which have been set with the remote control function setting ("Indoor function items" are saved in the memory of indoor unit.)
- (g) Upper limit value and lower limit value which have been set with the temperature setting control
- (h) Sleep timer and weekly timer settings (Other timer settings are not memorized.)

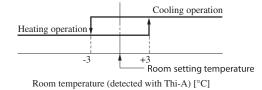
#### [Parts layout on remote control PCB]

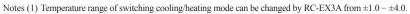


# 10.2.3 Operation control function by the indoor control

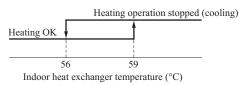
### (1) Auto operation

(a) If "Auto" mode is selected by the remote control, the heating and the cooling are automatically switched according to the difference between outdoor air temperature and setting temperature and the difference between setting temperature and return air temperature. (When the switching of cooling mode ↔ heating mode takes place within 3 minutes, the compressor does not operate for 3 minutes by the control of 3-minute timer.) This will facilitate the cooling/heating switching operation in intermediate seasons and the adaptation to unmanned operation at stores, etc (ATM corner of bank).

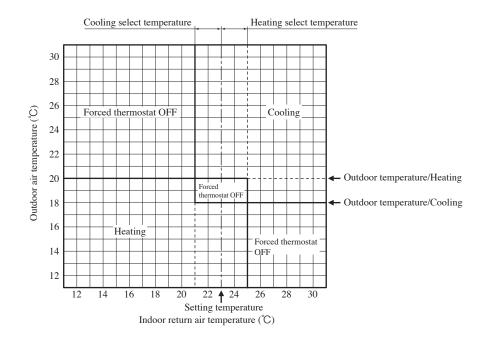




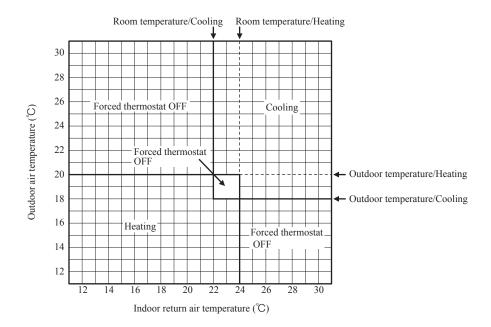
- (2) Room temperature control during auto cooling/auto heating is performed according to the room setting temperature. (DIFF: ±1 deg)
  - (3) If the indoor heat exchanger temperature rises to 59°C or higher during heating operation, it is switched automatically to cooling operation. In addition, for 1 hour after this switching, the heating operation is not performed, regardless of the temperature shown at right.



- (b) The following automatic controls are performed other than (a) above.
  - (i) Cooling or heating operation mode is judged according to the conditions of the "Judgment based on Setting temperature + Cooling select temperature and Indoor return air temperature" and the "Judgment based on Outdoor temperature".
    - In "Setting temperature Cooling select temperature < Indoor return air temperature" and "Outdoor temperature/Cooling < Outdoor return air temperature" ⇒ Operation mode: Cooling
    - 2) "Setting temperature + Heating select temperature > Indoor return air temperature" and "Outdoor temperature/ Heating > Outdoor air temperature" ⇒ Operation mode: Heating
    - 3) The outdoor air temperature of the above judgment conditions is sampled at every 10 minutes.
    - 4) In the range where the above cooling and heating zones are overlapped  $\Rightarrow$  Forced thermostat OFF



- (ii) Regardless of the setting temperature, the cooling or heating operation mode is judged according to the "Judgment based on Room temperature/Cooling or Heating and Outdoor temperature/Cooling or Heating".
  - In case of "Room temperature/Cooling < Indoor return air temperature" and "Outdoor temperature/Cooling < Outdoor air temperature" ⇒ Operation mode: Cooling
  - In case of "Room temperature/Heating > Indoor return air temperature" and "Outdoor temperature /Heating > Outdoor air temperature" ⇒ Operation mode: Heating
  - 3) The outdoor air temperature of the above judgment conditions is sampled at every 10 minutes.
  - 4) In the range where the above cooling and heating zones are overlapped  $\Rightarrow$  Forced thermostat OFF



#### (2) Operations of functional items during cooling/heating

Operation	Cooling						
Functional item	Thermostat ON	Thermostat OFF	Fan	Thermostat ON	Thermostat OFF	Hot start (Defrost)	Dehumidifying
Compressor	0	×	×	0	×	0	O/×
4-way valve	×	×	×	0	0	$\bigcirc$ (×)	×
Outdoor unit fan	0	×	×	0	×	⊖(×)	O/×
Indoor unit fan	0	0	0	0/×	O/×	$O/\times$	O/×
Drain pump <sup>(3)</sup>	0	× <sup>(2)</sup>	$\times^{\scriptscriptstyle (2)}$		$O/\times^{(2)}$		Thermostat ON: O Thermostat OFF: X <sup>(2)</sup>

Notes (1)  $\bigcirc$ : Operation  $\times$ : Stop  $\bigcirc/\times$ : Turned ON/OFF by the control other than the room temperature control.

(2) ON during the drain pump motor delay control.

(3) Drain pump ON setting may be selected with the indoor unit function setting of the wired remote control.

#### (3) Dehumidifying (DRY) operation

Indoor ambient temperatures and humidity are controlled simultaneously with the relative humidity sensor (HS) and the suction temperature sensor [Thi-A (or the remote control temperature sensor when it is activated)], which are installed at the suction inlet.

- (a) When the operation has been started with cooling, if there is a difference of 2°C or less between the suction and setting temperatures, the tap of indoor fan is lowered by one tap. This tap is retained for 3 minutes after changing the tap.
- (b) After the above condition, when a difference between suction and setting temperature is lower than 3°C, and the relative humidity is high, the tap of indoor fan is lowered by one tap. When the difference between suction and setting temperature is larger than 3°C, the tap of indoor fan is raised by one tap. This tap is retained for 3 minutes after changing the tap.
- (c) When relative humidity becomes lower, the indoor fan tap is retained.
- (d) In case of the thermostat OFF, the indoor fan tap at the thermostat ON is retained.

### (4) Timer operation

# (a) RC-EX3A

(i) Sleep timer

Set the time from the start to stop of operation. The time can be selected in the range from 30 to 240 minutes (in the unit of 10-minute).

Note (1) Enable the "Sleep timer" setting from the remote control. If the setting is enabled, the timer operates at every time.

(ii) Set OFF timer by hour

Set the time to stop the unit after operation, in the range from 1 to 12 hours (in the unit of hour).

(iii) Set ON timer by hour

Set the time to start the unit after the stop of operation, in the range from 1 to 12 hours (in the unit of hour). It is allowed also to set simultaneously the indoor temperature, operation mode, air flow rate and warm-up enabled/ disabled.

(iv) Set ON timer by clock

Set the time to start operation. The time can be set in the unit of 5-minute. This setting can be switched only once or daily. It is allowed also to set simultaneously the indoor temperature, operation mode, air flow rate and warm-up enabled/disabled.

Note (1) It is necessary to set the clock to use this timer.

(v) Set OFF timer by clock

Set the time to stop operation. The time can be set in the unit of 5-minute. This setting can be switched only once or daily.

Note (1) It is necessary to set the clock to use this timer.

(vi) Weekly timer

Set the ON or OFF timer for a week. Up to 8 patterns can be set for a day. The day-off setting is provided for holidays and non-business days.

Note (1) It is necessary to set the clock to use the weekly timer.

#### (vii) Combination of patterns which can be set for the timer operations

	Sleep timer	Set OFF timer by hour	Set ON timer by hour	Set OFF timer by clock	Set ON timer by clock	Weekly timer
Sleep timer		×	×	0	0	0
Set OFF timer by hour	×		×	×	×	×
Set ON timer by hour	×	×		×	×	×
Set OFF timer by clock	0	×	×		0	×
Set ON timer by clock	0	×	×	0		×
Weekly timer	0	×	×	×	×	

Note (1)  $\bigcirc$ : Allowed  $\times$ : Not

#### (b) RC-E5

(i) Sleep timer

Set the duration of time from the present to the time to turn off the air-conditioner.

It can be selected from 10 steps in the range from "OFF 1 hour later" to "OFF 10 hours later". After the sleep timer setting, the remaining time is displayed with progress of time in the unit of hour.

(ii) OFF timer

Time to turn OFF the air-conditioner can be set in the unit of 10 minutes.

(iii) ON timer

Time to turn ON the air-conditioner can be set in the unit of 10 minutes. Indoor temperature can be set simultaneously. (iv) Weekly timer

Timer operation (ON timer, OFF timer) can be set up to 4 times a day for each weekday.

#### (v) Combination of patterns which can be set for the timer operations

ltem ltem	Sleep Timer	OFF timer	ON timer	Weekly timer
Sleep Timer		×	0	×
OFF timer	×		0	×
ON timer	0	0		×
Weekly timer	×	×	×	

Notes (1)  $\bigcirc$ : Allowed ×: Not

<sup>(2)</sup> Since the ON timer, sleep timer and OFF timer are set in parallel, when the times to turn ON and OFF the air-conditioner are duplicated, the setting of the OFF timer has priority.

### (5) Hot start (Cold draft prevention at heating)

### (a) Operating conditions

When either one of following conditions is satisfied, the hot start control is performed.

- (i) From stop to heating operation
- (ii) From cooling to heating operation
- (iii) Form heating thermostat OFF to ON
- (iv) After completing the defrost operation (only on units with thermostat ON)

### (b) Contents of operation

- $(i) \ \ Indoor \ fan \ motor \ control \ at \ hot \ start$ 
  - 1) Within 7 minutes after starting heating operation, the fan mode is determined depending on the condition of thermostat (fan control with heating thermostat OFF).
    - a) Thermostat OFF
      - i) Operates according to the fan control setting at heating thermostat OFF.
    - ii) Even if it changes from thermostat OFF to ON, the fan continues to operate with the fan control at thermostat OFF till the heat exchanger thermistor (Thi-R1 or R2, whichever higher) detects 35°C or higher.
    - iii) When the heat exchanger thermistor (Thi-R1 or R2, whichever higher) detects 35°C or higher, the fan operates with the set air flow volume.
    - b) Thermostat ON
      - i) When the heat exchanger thermistor (Thi-R1 or R2, whichever higher) detects 25°C or lower, the fan is turned OFF and does not operate.
    - ii) When the heat exchanger thermistor (Thi-R1 or R2, whichever higher) detects 25°C or higher, the fan operates with the fan control at heating thermostat OFF.
    - iii) When the heat exchanger thermistor (Thi-R1 or R2, whichever higher) detects 35°C or higher, the fan operates with the set air flow volume.
    - c) If the fan control at heating thermostat OFF is set at the "Set air flow volume" (from the remote control), the fan operates with the set air flow volume regardless of the thermostat ON/OFF.
  - Once the fan motor is changed from OFF to ON during the thermostat ON, the indoor fan motor is not turned OFF even if the heat exchanger thermistor detects lower than 25°C.

Note (1) When the defrost control signal is received, it complies with the fan control during defrost operation.

- 3) Once the hot start is completed, it will not restart even if the temperature on the heat exchanger thermistor drops.
- (ii) During the hot start, the louver is kept at the horizontal position.
- (iii) When the fan motor is turned OFF for 7 minutes continuously after defrost operation, the fan motor is turned ON regardless of the temperatures detected with the indoor heat exchanger thermistors (Thi-R1, R2).

#### (c) Ending condition

- (i) If one of following conditions is satisfied during the hot start control, this control is terminated, and the fan is operated with the set air flow volume.
  - 1) Heat exchanger thermistor (Thi-R1 or R2, whichever higher) detects 35°C or higher.
  - 2) It has elapsed 7 minutes after starting the hot start control.

### (6) Hot keep

Hot keep control is performed at the start of the defrost operation.

### (a) Contents of operation

- (i) When the indoor heat exchanger temperature (detected with Thi-R1 or R2) drops to less than 35°C, the speed of indoor fan follows fan setting at the time of thermostat OFF.
- (ii) During the hot keep, the louver is kept at the horizontal position.

### (7) Auto swing control

# Note Even if [Auto Swing] is selected, the louver position with anti draft function is fixed to position 1. (a) RC-EX3A

#### (i) Louver control

- 1) To operate the swing louver when the air-conditioner is operating, press the "Direction" button on the TOP screen of remote control. The wind direction select screen will be displayed.
- 2) To swing the louver, touch the "Auto swing" button. The lover will move up and down. To fix the swing louver at a position, touch one of [1] [4] buttons. The swing lover will stop at the selected position.
- 3) Louver operation at the power on with a unit having the louver 4-position control function The louver swings one time automatically (without operating the remote control) at the power on. This allows the microcomputer recognizing and inputting the louver motor (LM) position.
- (ii) Automatic louver level setting during heating

At the hot start and the heating thermostat OFF, regardless whether the auto swing switch is operated or not (auto swing or louver stop), the louver takes the level position (in order to prevent blowing of cool wind). The louver position display LCD continues to show the display which has been shown before entering this control.

(iii) Louver free stop control

If you touch the "Menu"  $\rightarrow$  "Service setting"  $\rightarrow$  "R/C settings"  $\rightarrow$  "Service password" buttons one after another on the TOP screen of remote control, the "Flap control" screen is displayed. If the free stop is selected on this screen, the louver motor stops upon receipt of the stop signal from the remote control. If the auto swing signal is received from the remote control, the auto swing will start from the position before the stop.

### (b) RC-E5

- (i) Louver control
  - 1) Press the "LOUVER" button to operate the swing louver when the air-conditioner is operating. "SWING = "is displayed for 3 seconds and then the swing louver moves up and down continuously.
  - To fix the swing louver at a position, press one time the "LOUVER" button while the swing louver is moving so that four stop positions are displayed one after another per second.

When a desired stop position is displayed, press the "LOUVER" button again. The display stops, changes to show the "STOP 1 —" for 5 seconds and then the swing louver stops.

3) Louver operation at the power on with a unit having the louver 4-position control function

The louver swings one time automatically (without operating the remote control) at the power on.

This allows inputting the louver motor (LM) position, which is necessary for the microcomputer to recognize the louver position.

(ii) Automatic louver level setting during heating

At the hot start with the heating thermostat OFF, regardless whether the auto swing switch is operated or not (auto swing or louver stop), the louver takes the level position (In order to prevent the cold start). The louver position display LCD continues to show the display which has been shown before entering this control.

(iii) Louver-free stop control

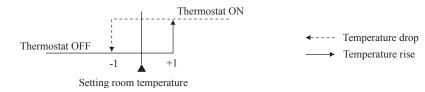
When the louver-free stop has been selected with the indoor function of wired remote control "= POSITION", the louver motor stops when it receives the stop signal from the remote control. If the auto swing signal is received from the remote control, the auto swing will start from the position where it was before the stop.

Note (1) When the indoor function of wired remote control "= POSITION" has been switched, switch also the remote control function "= POSITION" in the same way.

### (8) Thermostat operation

### (a) Cooling

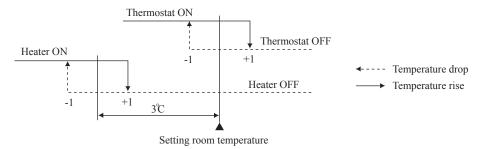
- (i) Thermostat is operated with the room temperature control.
- (ii) Thermostat is turned ON or OFF relative to the setting room temperature as shown below.



(iii) Thermostat is turned ON when the room temperature is in the range of -1 < Setting temperature < +1 at the start of cooling operation (including from heating to cooling).

### (b) Heating

- (i) Thermostat is operated with the room temperature control.
- (ii) Thermostat is turned ON or OFF relative to the setting room temperature as shown below.



(iii) Thermostat is turned ON when the room temperature is in the range of -1 < Set room temperature < +1 at the start of heating operation (including from cooling to heating).

### (c) Fan control during heating thermostat OFF

(i) Following fan controls during the heating thermostat OFF can be selected with the indoor function setting of the wired remote control.

(1) Low fan speed (Factory default) (2) Set fan speed (3) Intermittence (4) Fan OFF

- (ii) When the "Low fan speed (Factory default)" is selected, the following taps are used for the indoor fans.For DC motor : ULo tap
- (iii) When the "Set fan speed" is selected, it is operated with the set fan speed also in the thermostat OFF condition.
- (iv) If the "Intermittence" is selected, following controls are performed:
  - 1) If the thermostat is turned OFF during the heating operation, the indoor unit moves to the hot control and turns OFF the indoor fan if the heat exchanger thermistors (both Thi-R1 and R2) detect 25°C or lower.
  - 2) Indoor fan OFF is fixed for 5 minutes. After the 5 minutes, the indoor fan is operated at ULo for 2 minutes. In the meantime the louver is controlled at level.
  - 3) After operating at ULo for 2 minutes, the indoor fan moves to the state of 1) above.
  - 4) If the thermostat is turned ON, it moves to the hot start control.
  - 5) When the heating thermostat is turned OFF, the remote control displays the temperature detected at the fan stop and revises the temperature later when the indoor fan changes from ULo to stop. The remote control uses the operation data display function to display temperatures and updates values of temperature even when the indoor fan is turned OFF.
  - 6) When the defrosting starts while the heating thermostat is turned OFF or the thermostat is turned OFF during defrosting, the indoor fan is turned OFF. (Hot keep or hot start control takes priority.) However, the suction temperature is updated at every 7-minute.
  - 7) When the heating thermostat is turned ON or the operation is changed to another mode (including stop), this control is stopped immediately, and the operating condition is restored.
- (v) When the "Fan OFF" is selected, the fan on the indoor unit of which the thermostat has been turned OFF, is turned OFF. The same occurs also when the remote control sensor is effective.

### (d) Fan control during cooling thermostat OFF

- (i) Following fan controls during the cooling thermostat OFF can be selected with the indoor function setting of the wired remote control.
  - (1) Low fan speed (2) Set fan speed (Factory default) (3) Intermittence (4) Fan OFF
- (ii) When the "Low fan speed" is selected, the following taps are used for the indoor fans.ULo tap
- (iii) When the "Set fan speed" is selected, it is operated with the set fan speed also in the thermostat OFF condition.
- (iv) If the "Intermittence" is selected, following controls are performed:
  - 1) If the thermostat is turned OFF during the cooling operation, the indoor fan motor stops.
  - 2) Indoor fan OFF is fixed for 5 minutes. After the 5 minutes, the indoor fan is operated at ULo for 2 minutes. In the meantime the louver is controlled at level.
  - 3) After operating at ULo for 2 minutes, the indoor fan moves to the state of 1) above.
  - 4) If the thermostat is turned ON, the fan starts operation at set fan speed.
  - 5) When the cooling thermostat is turned OFF, the remote control displays the temperature detected at the fan stop and revises the temperature later when the indoor fan changes from ULo to stop.

By using operation data display function at wireless remote control, the tempenature as displayad and the value is updated including the fan stops.

- 6) When the cooling thermostat is turned ON or the operation is changed to another mode (including stop), this control is stopped immediately, and the operating condition is restored.
- (v) When the "Fan OFF" is selected, the fan on the indoor unit of which the thermostat has been turned OFF, is turned OFF. The same occurs also when the remote control sensor is effective.

#### (9) Filter sign

As the operation time (Total ON time of ON/OFF switch) accumulates to 180 hours (1), "FILTER CLEANING" is displayed on the remote control. (This is displayed when the unit is in trouble and under the centralized control, regardless of ON/OFF)

Notes (1) Time setting for the filter sign can be made as shown below using the indoor function of wired remote control "Filter sign". (It is set at setting 1 at the shipping from factory.)

Filter sign setting	Function
Setting <b>1</b>	Setting time: 180 hrs (Factory default)
Setting <b>2</b>	Setting time: 600 hrs
Setting <b>3</b>	Setting time: 1,000 hrs
Setting <b>4</b>	Setting time: 1,000 hrs (Unit stop) <sup>(2)</sup>

(2) After the setting time has elapsed, the "FILTER CLEANING" is displayed and, after operating for 24 hours further (counted also during the stop), the unit stops.

#### (10) Compressor inching prevention control

### (a) 3-minute timer

When the compressor has been stopped by the thermostat, remote control operation switch or anomalous condition, its restart will be inhibited for 3 minutes. However, the 3-minute timer is invalidated at the power on the electric power source for the unit.

#### (b) 3-minute forced operation timer

- (i) Compressor will not stop for 3 minutes after the compressor ON. However, it stops immediately when the unit is stoppe d by means of the ON/OFF switch or when the thermostat is turned OFF by the change of operation mode.
- (ii) If the thermostat is turned OFF during the forced operation control of heating compressor, the louver position (with the auto swing) is returned to the level position.

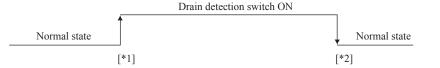
Note (1) The compressor stops when it has entered the protective control.

### (11) Drain pump control

- (a) This control is operated when the inverter frequency is other than 0 Hz during the cooling operation and automatic cooling and dehumidifying operations.
- (b) Drain pump ON condition continues for 5 minutes even when it enters the OFF range according to (a) above after turning the drain pump ON, and then stops. The 5-minute delay continues also in the event of anomalous stop.
- (c) The drain pump is operated with the 5-minute delay operation when the compressor is changed from ON to OFF.
- (d) Even in conditions other than the above (such as heating, fan, stop, cooling thermostat OFF), the drain pump control is performed by the drain detection.
- (e) Following settings can be made using the indoor function setting of the wired remote control.
- (i) 🗱 [Standard (in cooling)] : Drain pump is run during cooling.
- (ii) 常创的菜 [Operate in standard & heating]: Drain pump is run during cooling and heating.
- (iii) 攀部的菜部的話 [Operate in heating & fan]: Drain pump is run during cooling, heating and fan.
- (iv) 総合() 【Operate in standard & fan】: Drain pump is run during cooling and fan. Note (1) Values in [ ] are for the RC-EX3A model.

### (12) Drain pump motor (DM) control

(a) Drain detection switch is turned ON or OFF with the float switch (FS) and the timer.



- [\*1] Drain detection switch is turned "ON" when the float switch "Open" is detected for 3 seconds continuously in the drain detectable space.
- [\*2] Drain detection switch is turned "OFF" when the float switch "Close" is detected for 10 seconds continuously.
- (i) It detects always from 30 seconds after turning the power ON.
  - 1) There is no detection of anomalous draining for 10 seconds after turning the drain pump OFF.
  - 2) Turning the drain detection switch "ON" causes to turn ON the drain pump forcibly.
  - 3) Turning the drain detection switch "OFF" releases the forced drain pump ON condition.
- (b) Indoor unit performs the control A or B depending on each operating condition.

	I	ndoor unit ope				
	Stop (1)	Cooling	Dry	Fan (2)	Heating	Notes (1) Including the stop from the cooling, dehumidifying, fan
Compressor ON						and heating, and the anomalous stop (2) Including the "Fan" operation according to the
Compressor OFF						mismatch of operation modes

(i) Control A

- 1) If the float switch detects any anomalous draining condition, the unit stops with the anomalous stop (displays E9) and the drain pump starts. After detecting the anomalous condition, the drain pump motor continues to be ON.
- 2) It keeps operating while the float switch is detecting the anomalous condition.
- (ii) Control B

If the float switch detects any anomalous drain condition, the drain pump motor is turned ON for 5 minutes, and at 10 seconds after the drain pump motor OFF it checks the float switch. If it is normal, the unit is stopped under the normal mode or, if there is any anomalous condition, E9 is displayed and the drain pump motor is turned ON. (The ON condition is maintained during the drain detection.)

#### (13) Operation check/drain pump test run operation mode

- (a) If the power is turned on by the DIP switch (SW7-1) on the indoor unit control PCB when electric power source is supplied, it enters the mode of operation check/drain pump test run. It is ineffective (prohibited) to change the switch after turning power on.
- (b) When the communication with the remote control has been established within 60 seconds after turning power on by the DIP switch (SW7-1) ON, it enters the operation check mode. Unless the remote control communication is established, it enters the drain pump test run mode.

Note (1) To select the drain pump test run mode, disconnect the remote control connector (CnB) on the indoor unit PCB to shut down the remote control communication.

(c) Operation check mode

There is no communication with the outdoor unit but it allows performing operation in respective modes by operating the remote control.

(d) Drain pump test run mode

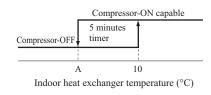
As the drain pump test run is established, the drain pump only operates and during the operation protective functions by the microcomputer of indoor unit become ineffective.

### (14) Cooling, dehumidifying frost protection

- (a) To prevent frosting during cooling mode or dehumidifying mode operation, the compressor-OFF if the indoor heat exchanger temperature (detected with Thi-R) drops to 1.0 °C or lower at 4 minutes after the compressor-ON. If the indoor unit heat exchanger temperature is 1.0 °C or lower after 5 minutes, the indoor unit is controlled compressor-OFF. If it becomes 10°C or higher, the control terminates.
  - Frost prevention temperature setting can be selected with the

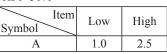
indoor unit function setting of the wired remote control.

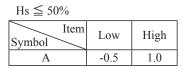
Item	А
Temperature - Low (Factory default)	1.0
Temperature - High	2.5



#### • Compressor forced off temperature

Hs > 50%





(b) Selection of indoor fan speed

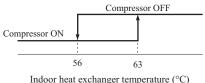
If it enters the frost prevention control during cooling operation (including dehumidifying), the indoor fan speed is switched.

- (i) When the indoor return air temperature (Thi-A) is 18°C or higher and the indoor heat exchanger temperature (detected with Thi-R) detects the compressor frequency drop start temperature A°C+1°C, indoor fan speed is increased by 20min<sup>-1</sup>.
- (ii) If the phenomenon of (i) above is detected again after the acceleration of indoor fan, indoor fan speed is increased further by 20min<sup>-1</sup>.

Note (1) Indoor fan speed can be increased by up to P-Hi.

### (15) Heating overload protection

(a) If the indoor heat exchanger temperature (detected with Thi-R) at 63°C or higher is detected for 2 seconds continuously, the compressor stops. When the compressor is restarted after a 3-minute delay, if a temperature at 63°C or higher is detected for 2 seconds continuously within 60 minutes after initial detection and if this is detected 5 times consecutively, the compressor stops with the anomalous stop (E8). Anomalous stop occurs also when the indoor heat exchanger temperature at 63°C or higher is detected for 6 minutes continuously.



(b) Indoor fan speed selection

If, after second detection of heating overload protection up to fourth, the indoor fan is set at below Hi tap when the compressor is turned ON, the indoor fan speed is increased by 1 tap.

#### (16) Anomalous fan motor

- (a) After starting the fan motor, if the fan motor speed is 200 min<sup>-1</sup> or less is detected for 30 seconds continuously and 4 times within 60 minutes, then fan motor stops with the anomalous stop (E16).
- (b) If the fan motor fails to reach at  $-50 \text{ min}^{-1}$  less than the required speed, it stops with the anomalous stop (E20).

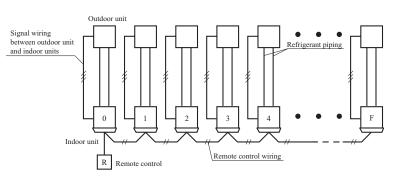
# (17) Plural unit control – Control of 16 units group by one remote control

### (a) Function

One remote control can control a group of multiple number of unit (Max. 16 indoor units). "Operation mode" which is set by the remote control can operate or stop all units in the group one after another in the order of unit. No.<sup>(1)</sup>. Thermostat and protective function of each unit function independently.

Note (1) Unit No. is set by SW2 on the indoor control PCB. Unit No. setting by SW2 is necessary for the indoor unit only.

```
SW2: For setting of 0 - 9, A - F
```



(2) Unit No. may be set at random unless duplicated, it should be better to set orderly like 0, 1, 2..., F to avoid mistake.

#### (b) Display to the remote control

- (i) Central or each remote control basis, heating preparation: the smallest unit No. among the operating units in the remote mode (or the center mode unless the remote mode is available) is displayed.
- (ii) Inspection display, filter sign: Any of unit that starts initially is displayed.

## (c) Confirmation of connected units

- (i) In case of RC-EX3A remote control
   If you touch the buttons in the order of "Menu" → "Service setting" → "Service & Maintenance" → "Service password" → "IU address" on the TOP screen of remote control, the indoor units which are connected are displayed.
- (ii) In case of RC-E5 remote control

Pressing "AIR CON No." button on the remote control displays the indoor unit address. If " $\blacktriangle$ " " $\blacktriangledown$ " button is pressed at the next, it is displayed orderly starting from the unit of smallest No..

#### (d) In case of anomaly

If any anomaly occurs on a unit in a group (a protective function operates), that unit stops with the anomalous stop but any other normal units continue to run as they are.

#### (e) Signal wiring procedure

Signal wiring between indoor and outdoor units should be made on each unit same as the normal wiring. For the group control, connect the remote control wiring to each indoor unit via terminal block for the remote control.

Connect the remote control wiring separately from the power source cable or wires of other electric devices (AC220V or higher).

### (18) Fan speed setting control

When sufficient air flow rate cannot be obtained from the indoor unit which is installed at a room with high ceiling, the air flow rate can be increased by changing the fan tap. To change the fan tap, use the indoor unit function "Fan speed setting" on the wired remote control.

Ean	ton	Indoo	or unit air flow ra	te setting	Wired remote control	
Fan tap		8a11 - 8a1 - 8a0 - 8a0	8af - 8af - 8af	link - Ink	Rati - Rati	Series
	Standard	P-Hil - Hi - Me - Lo	Hi - Me - Lo	Hi - Lo	Hi - Me	RC-EX3A
		UH - Hi - Me - Lo	Hi - Me - Lo	Hi - Lo	Hi - Me	RC-E5
Fan speed setting	Setting1	P-Hi2 - P-Hi1 - Hi - Me	P-Hi1 - Hi - Me	P-Hil - Me	P-Hi1 - Hi	RC-EX3A
	Setting2	P-Hi2 - Hi - Me - Lo	Hi - Me - Lo	Hi - Lo	Hi - Me	RC-EX3A
	HIGH SPEED1, 2	UH - UH - Hi - Me	UH - Hi - Me	UH - Me	UH - Hi	RC-E5

Notes (1) Factory default is Standard.

(2) At the hot-start and heating thermostat OFF, or other, the indoor fan is operated at the low speed tap of each setting.

(3) This function is not able to be set with wireless remote control or simple remote control (RCH-E3).

# (19) Abnormal temperature sensor (return air/indoor heat exchanger) broken wire/short-circuit detection

(a) Broken wire detection

When the return air temperature sensor detects  $-50^{\circ}$ C or lower or the heat exchanger temperature sensor detect  $-50^{\circ}$ C or lower for 5 seconds continuously, the compressor stops. After 3-minute delay, the compressor restarts but, if it is detected again within 60 minutes after the initial detection for 6 minutes continuously, stops again (the return air temperature sensor : E7, the heat exchanger temperature sensor : E6).

## (b) Short-circuit detection

If the heat exchanger temperature sensor detects short-circuit for 5 seconds continuously within 2 minutes to 2 minutes 20 seconds after the compressor ON during cooling operation, the compressor stops (E6).

# (20) External input/output control (CnT or CnTA)

External input/output connectors are provided on the indoor unit control PCB, and each input/output is possible to be changed by RC-EX3A.

Be sure to connect the wired remote control to the indoor unit. Remote operation with CnT/CnTA only is not possible.

•CnT •CnTA Input/Output Connector Factory default setting RC-EX3A function name CnT-2 (XR1) Operation output External output 1 CnTA CnT-3 (XR2) Heating output External output 2 Output Blue CnT-4 (XR3) Compressor ON output External output 3 6 12V CnT-5 (XR4) External output 4 CnT XR6 Inspection(Error) output - - (XR2)-Blue "Input CnT-6 (XR5) Remote operation input External input 1 CnTA (XR6) Remote operation input External input 2 (Volt-free contact)

#### Priority order for combinations of CnT and CnTA input.

			CnTA							
		① Operation stop level	② Operation stop pulse	③ Operation permission/prohibition	④ Operation permission/prohibition pulse	- U U	6 Cooling/heating selection pulse			
	① Operation stop level	CnT ①	CnT ①	CnT ① +CnTA ②	CnT ①	CnT ① /CnTA ⑤	CnT ① /CnTA ⑥			
	(2) Operation stop pulse	CnT 2	CnT 2	CnT (2) +CnTA (3)	CnT ②	CnT 2 /CnTA 5	CnT 2 /CnTA 6			
	③ Operation permission/prohibition level	CnT ③ >CnTA ①	CnT ③ >CnTA ②	CnT ③ +CnTA ③	CnT ③	CnT ③ /CnTA ⑤	CnT ③ /CnTA ⑥			
CnT	(4) Operation permission/prohibition pulse	CnT ④	CnT ④	CnT ④ +CnTA ③米	CnT ④	CnT (4) /CnTA (5)	CnT ④ /CnTA ⑥			
	(5) Cooling/heating selection level	CnT (5) /CnTA (1)	CnT (5) /CnTA (2)	CnT (5) /CnTA (3)	CnT (5) /CnTA (4)	CnT (5)	CnT (5)			
	6 Cooling/heating selection pulse	CnT 6 /CnTA 1	CnT 6 /CnTA 2	CnT 6 /CnTA 3	CnT 6 /CnTA 4	CnT 6	CnT 6			

Note (1) Following operation commands are accepted when the operation prohibition is set with CnTA as indicated with \*.

Individual operation command from remote control, test run command from outdoor unit and operation command from option device, CnT input. Reference: Explanation on the codes and the combinations of codes in the table above

1. In case of CnT "Number", the CnT "Number" is adopted and CnTA is invalidated.

In case of CnTA "Number", the CnTA "Number" is adopted and CnT is invalidated.

In case of CnT "Number"/CnTA "Number", the CnT "Number" and the CnTA "Number" become independent functions each other.

In case of ChT 'Number' + ChTA 'Number', the ChT 'Number' and the ChTA 'Number' become independent functions each other.

In case of CnT "Number" > CnTA "Number", the function of CnT "Number" supersedes that of CnTA "Number".

In case of CnT "Number" < CnTA "Number", the function of CnTA "Number" supersedes that of CnT "Number".</li>

(The "Number" above means (1) - (6) in the table.)

# (a) Output for external control (remote display)

Indoor unit outputs the following signal for operation status monitoring.

	, °°°	
	Output name	Condition
1	Operation output	During operation
2	Heating output	During heating operation
3	Compressor ON output	During compressor operation
4	Inspection(Error) output	When anomalous condition occurs.
5	Cooling output	During cooling operation
6	Fan operation output 1	When indoor unit's fan is operating
7	Fan operation output 2	When indoor unit's fan is operating, and fan speed is higher than Hi speed.
8	Fan operation output 3	When indoor unit's fan is operating, and fan speed is Lower than Me speed.
9	Defrost/oil return output	When indoor unit receive defrost/oil return signal from the outdoor unit.
10	Ventilation output	When "Venti.ON" is selected from remote control
11	Free cooling output	When the ambient temp. is between 10 - 18°C in cooling and fan operation
12	Indoor unit overload alrm output	Refer to "IU overload alarm"
13	Heater output	Refer to "(8) Thermostat operation (b) Heating"

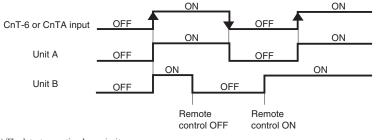
#### (b) Input for external control

The external input for the indoor unit can be selected from the following input.

	Input name	Content
1	Run/Stop	Refer to [(20) (c) Remote operation input]
2	Premission/Prohibition	Refer to [(21) Operation permission/prohibition]
3	Cooling/Heating	Refer to [(23) Selection of cooling/heating external input function]
4	Emergency stop	Indoor/outdoor units stop the operation, and [E63] is displayed.
5	Setting temperature shift	Set temperature is shifted by +2/-2°C in cooling/heating.
6	Forced thermo-OFF	Unit goes thermo off.
7	Temporary stop	Refer to [(22) Temporary stop input]
8	Silent mode	Outdoor unit silent mode is activated.

#### (i) In case of "Level input" setting (Factory default)

Input signal to CnT-6 or CnTA is OFF→ON ..... unit ON Input signal to CnT-6 or CnTA is ON→OFF ..... unit OFF Operation is not inverted.

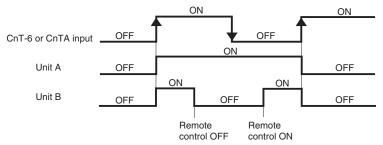


Note (1) The latest operation has priority

It is available to operate/stop by remote control or central control.

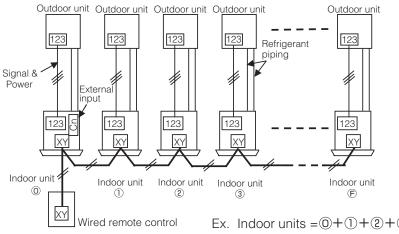
#### (ii) In case of "Pulse input" setting (Local setting)

It is effective only when the input signal to CnT-6 or CnTA is changed OFF→ON, and at that time unit operation [ON/OFF] is inverted.



### (c) Remote operation

(i) In case of multiple units (Max. 16 indoor units group) are connected to one wired remote control When the R/C function setting of wired remote control for "External control set" is changed from "Individual (Factory default)" to "For all units", all units connected in one wired remote control system can be controlled by external operation input.



	Individual operation	on (Factory default)	All units operation (Local setting)		
	ON	OFF	ON	OFF	
CnT-6 or CnTA	Only the unit directly connected to the remote control can be operated.	Only the unit directly connected to the remote control can be stopped opeartion.	All units in one remote control system can be operated.	All units in one remote control system can be stopped operation.	
	Unit ① only	Unit ① only	Units $\widehat{\mathbb{1}} - \widehat{\mathbb{F}}$	Units ① – ④	

When more than one indoor unit (Max. 16 indoor units) are connected in one wired remote control system:

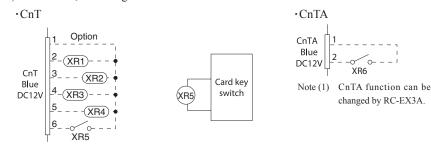
(1) With the factory default, external input to CnT-6 or CnTA is effective for only the unit ①.

- (2) When setting "For all unit" (Local setting), all units in one remote control system can be controlled by external input to CnT-6 or CnTA on the indoor unit ①.
- (3) External input to CnT-6 or CnTA on the other indoor unit than the unit (1) is not effective.

#### (21) Operation permission/prohibition

#### (In case of adopting card key switches or commercially available timers)

When the indoor function setting of wired remote control for "Operation permission/prohibition" is changed from "Invalid (Factory default)" to "Valid", following control becomes effective.



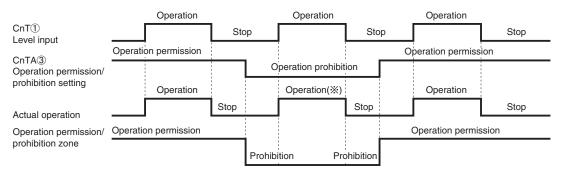
		operation default)	Operation permission/prohibition mode "Valid" (Local setting)		
CrrT 6 or	ON	OFF	ON	OFF	
CnT-6 or CnTA	Operation	Stop	Operation permission*1	Operation prohibition (Unit stops)	

\*1 **Only the "LEVEL INPUT" is acceptable for external input**, however when the indoor function setting of "Level input (Factory default)" or "Pulse input" is selected by the function for "External input" of the wired remote control, operation status will be changed as follows.

In case of "Level input" setting	In case of "Pulse input" setting
Unit operation from the wired remote control becomes available % 1	Unit starts operation ※2

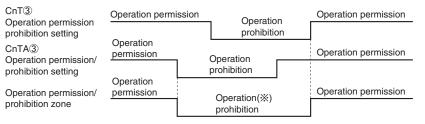
- \*\*1) In case that "Operation permission/prohibition mode" setting is "Valid" and "External input" setting is "Level input (Factory default)";
  - (1) When card key switch is ON (CnT-6 or CnTA ON: Operation permission), start/stop operation of the unit from the wired remote control becomes available.
  - 2 When card key switch is OFF (CnT-6 or CnTA OFF: Operation prohibition), the unit stops operation in conjunction with OFF signal, and start/stop operation of the unit from the wired remote control becomes unavailable.
- %2) In case that "Operation permission/prohibition mode" setting is "Valid" and "External input" setting is "Pulse input (Local setting)";
  - ① When card key switch is ON (Operation permission), the unit starts operation in conjunction with ON signal, and also start/stop operation of the unit from the wired remote control becomes available.
  - 2 When card key switch is OFF (Operation prohibition), the unit stops operation in conjunction with OFF signal, and start/stop operation of the unit from the wired remote control becomes unavailable.
  - 3) This function is invalid only at "Center mode" setting done by central control.

### (a) In case of CnT (1) Operation stop level > CnTA (3) Operation permission/prohibition level



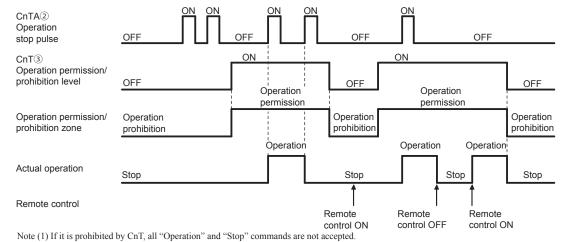
(%) CnT level input supersedes CnTA operation prohibition.

#### (b) In case of CnT ③ Operation permission/prohibition level + CnTA ③ Operation permission/prohibition level

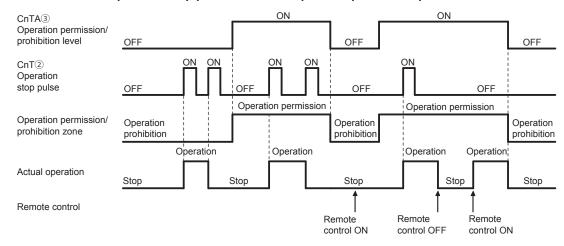


(\*) Operation prohibition zone is determined by the OR judgment between CnT operation prohibition zone and CnTA operation prohibition zone.

#### (c) In case of CnT ③ Operation permission/prohibition level > CnTA ② Operation stop pulse



#### (d) In case of CnT 2 Operation stop pulse + CnTA 3 Operation permission/prohibition level

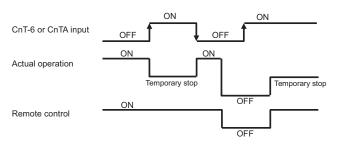


### (22) Temporary stop input

In case of temporary stop, operation lamp of remote control lights, but indoor/outdoor unit stop the operation.

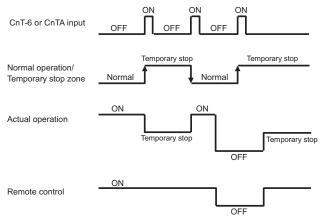
# (a) In case of "level input" setting (Factory default)

Input signal to CnT-6 or CnTA is OFF  $\rightarrow$  ON : Temporary stop Input signal to CnT-6 or CnTA is OFF  $\rightarrow$  ON : Normal operation



### (b) In case of "pulse input" setting (Local setting)

It is effective only when the input signal is changed OFF→ON, and "temporary stop/normal operation" is inverted.



### (23) Selection of cooling/heating external input function

- (a) When "External input 1 setting: Cooling/heating" is set by the indoor unit function from remote control, the cooling or heating is selected with CnT-6 or CnTA.
- (b) When the external input 1 method selection: Level input is set by the indoor unit function:
  - CnT-6 or CnTA: OPEN  $\rightarrow$  Cooling operation mode
  - $\cdot$  CnT-6 or CnTA: CLOSE  $\rightarrow$  Heating operation mode
- (c) When the external input 1 method selection: Pulse input is set by the indoor unit function:
- If the external input is changed OPEN  $\rightarrow$  CLOSE, operation modes are inverted (Cooling  $\rightarrow$  Heating  $\rightarrow$  Cooling).
- (d) If the cooling/heating selection signal is given by the external input, the operation mode is transmitted to the remote control.

External input selection	External input method		Operation
		External terminal input (CnT or CnTA)	OFF OFF OF OFF
	(5) Level	Cooling/heating	Cooling Cooling Heating
External input selection		Cooling/heating (Competitive)	Cooling Heating Heating Auto, cooling, dry mode command † † Hating, auto, heating mode command from remote control
External input selection Cooling/heating selection		External terminal input (CnT or CnTA)	OFF ON OFF Cooling zone After straing "Cooling Andream Section", the cooling/heating is selected by the current operation mode. During cooling, dry, auto and fur mode: Set at a cooling zone (heating zone (cooling prohibition zone).
	6 Pulse	Cooling/heating	Auto Cooling Cooling
		Cooling/heating (Competitive)	Auto Cooling 1 Set "Cooling" 1 Auto, cooling, dry mode command 1 Auto, heating mode Heating "Pules" by remote control command by remote control

Selection of cooling/heating external input function

Note (1) Regarding the priority order for combinations of CnT and CnTA, refer to page 158.

#### (24) Fan control at heating startup

### (a) Starting conditions

At the start of heating operation and after the end of hot start control, if the difference of setting temperature and return air temperature is 5°C or higher, this control is performed.

#### (b) Contents of control

(i) Sampling is made at each minute and, when the indoor heat exchanger temperature (detected with Thi-R) is 37°C or higher, present number of revolutions of indoor fan speed is increased by 10min<sup>-1</sup>.

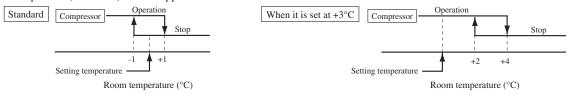
(ii) If the indoor heat exchanger temperature drops below 37°C at next sampling, present number of revolutions of indoor fan speed is reduced by 10min<sup>-1</sup>.

#### (c) Ending conditions

Indoor fan speed is reduced to the setting air flow rate when the compressor OFF is established and at 30 minutes after the start of heating operation.

#### (25) Room temperature detection temperature compensation during heating

With the standard specification, the compressor is turned ON/OFF with the thermostat setting temperature. When the thermostat is likely to turn OFF earlier because the unit is installed at the ceiling where warm air tends to accumulate, the setting can be changed with the wired remote control indoor unit function "\$SP OFFSET". The compressor and the heater are turned ON/OFF at one of the setting temperature +3, +2 or +1°C in order to improve the feeling of heating. The setting temperature, however, has the upper limit of 30°C.



#### (26) Return air temperature compensation

This is the function to compensate the deviation between the detection temperature by the return air temperature sensor and the measured temperature after installing the unit.

(a) It is adjustable in the unit of 0.5°C with the wired remote control indoor unit function "RETURN AIR TEMP".

• +1.0°C, +1.5°C, +2.0°C • -1.0°C, -1.5°C, -2.0°C

(b) Compensated temperature is transmitted to the remote control and the compressor to control them. Note (1) The detection temperature compensation is effective on the indoor unit thermistor only.

#### (27) High power operation (RC-EX3A only)

It operates at with the set temperature fixed at 16°C for cooling, 30°C for heating and maximum indoor fan speed for 15 minutes maximum.

#### (28) Energy-saving operation (RC-EX3A only)

It operates with the setting temperature fixed at 28°C for cooling, 22°C for heating or 25°C for auto. When fan control in cooling/heating thermo-OFF setting is "Set fan speed", fan speed during thermo-OFF is changed to "Low". (Maximum capacity is restricted at 80%.)

#### (29) Warm-up control (RC-EX3A only)

Operation will be started 5 to 60 minutes before use according to the forecast made by the microcomputer which calculates when the operation should be started in order to warm up the indoor temperature near the setting temperature at the setting time of operation start.

#### (30) Home leave mode (RC-EX3A only)

When the unit is not used for a long period of time, the room temperature is maintained at a moderate level, avoiding extremely hot or cool temperature.

- (a) Cooling or heating is operated according to the outdoor temperature (factory setting 35°C for cooling, 0°C for heating) and the setting temperature. (factory setting 33°C for cooling, 10°C for heating)
- (b) Setting temperature and indoor fan speed can be set by RC-EX3A.

#### (31) Auto temperature setting (RC-EX3A only)

Setting temperature is adjusted automatically at the adequate temperature the center setting temperature is 24°C by correcting the outdoor air temperature.

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### (32) Fan circulator operation (RC-EX3A only)

When the fan is used for circulation, the unit is operated as follows depending on the setting with the remote control.

- (a) If the invalid is selected with the remote control, the fan is operated continuously during the fan operation. (normal fan mode)
- (b) If the valid is selected with the remote control, the fan is operated or stopped when on the difference of the remote control temperature sensor and the return air temperature sensor becomes bigger than 3°C.

### (33) The operation judgment is executed every 5 minutes (RC-EX3A only)

Setting temperature Ts is changed according to outdoor temperature.

This control is valid with cooling and heating mode. (Not auto mode)

- (a) Operate 5 minutes forcedly.
- (b) Setting temperature is adjusted every 10 minutes.
  - (i) Cooling mode.
  - Ts = outdoor temperature offset value (ii) Heating mode.
  - Ts = outdoor temperature offset value
- (c) If the return air temperature lower than 18°C in cooling or return air temperature becomes higher than 25°C in heating, unit goes thermostat OFF.

### (34) Auto fan speed control (RC-EX3A only)

In order to reach the room temperature to the setting temperature as quickly as possible, the air flow rate is increased when the setting temperature of thermostat differs largely from the return air temperature. According to temperature difference between setting temperature and return air temperature, indoor fan tap are controlled automalically.

• Auto 1: Changes the indoor fan tap within the range of Hi  $\leftrightarrow$  Me  $\leftrightarrow$  Lo.

• Auto 2: Changes the indoor fan tap within the range of P-Hi  $\leftrightarrow$  Hi  $\leftrightarrow$  Me  $\leftrightarrow$  Lo.

### (35) Indoor unit overload alarm (RC-EX3A only)

If the following condition is satisfied at 30 minutes after starting operation, RC-EX3A shows maintenance code "M07" and the signal is transmitted to the external output (CnT-2-5).

· Cooling, Dry, Auto(Cooling) : Indoor air temperature = Set room temperature by remote control + Alarm temperature difference

• Heating, Auto(Heating) : Indoor air temperature = Set room temperature by remote control - Alarm temperature difference Alarm temperature difference is selectable between 5 to  $10^{\circ}$ C.

If the following condition is satisfied or unit is stopped, the signal is disappeared.

- Cooling, Dry, Auto(Cooling) : Indoor air temperature = Set room temperature + Alarm temperature difference -2°C
- Heating, Auto(Heating) : Indoor air temperature = Set room temperature Alarm temperature difference  $+2^{\circ}C$

### (36) Peak-cut timer (RC-EX3A only)

Power consumption can be reduced by restricting the maximum capacity.

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 interval.
- The selectable range of capacity limit % (Peak-cut %) is from 0% to 40-80% (20% interval).

• Holiday setting is available.

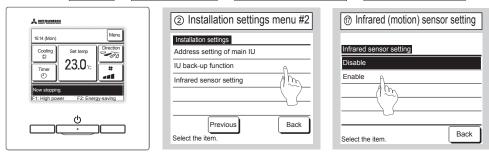
### (37) Motion sensor control (RC-EX3A and RCN-E2 only)

The sensor determines the presence of people and the amount of activity, and the following controls are done by the motion sensor. Following settings are necessary to activate motion sensor control.

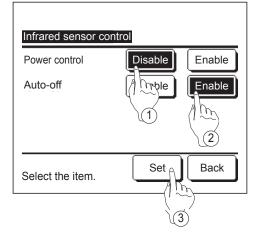
- (a) Infrared (motion) sensor setting: Installation setting of remote control The indoor unit which is set to "Enable" become valid.
- (b) Infrared (motion) sensor control: Energy-saving setting of remote control The function which is set to "Enable" become valid.

### RC-EX3A

TOP screen Menu ⇒ Service setting ⇒ Installation settings ⇒ Service password



### TOP screen Menu



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.

### RCN-E2

- 1. 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.

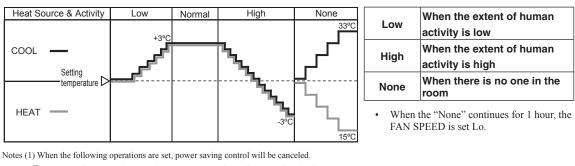
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#### 2. Setting details

Button	Number indicator	Function setting
SILENT	00	Infrared sensor setting (Motion sensor setting) : Disable
SILEINI	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
HIFOWER	02	Infrared sensor control (Motion sensor control) : Auto OFF only
	03	Infrared sensor control (Motion sensor control) : Power control and Auto OFF

### (i) Power saving / comfort control

The setting temperature is adjusted according to the presence of people and their amount of activity detected by the infrared (motion) sensor.



MODE:AUTO/COOL/HEAT mode operation

Notes (1) When the following operations are set, power saving control will be canceled.
① Energy-saving, Home leave mode, Warm-up control, Cooling operation check.
② When the operation mode is changed DRY or FAN.
(2) Not operable while the air-conditioner is OFF.

(ii) Auto-off control

When no activity is detected for 1 hour, unit will go stand-by mode.<sup>\*\*</sup> Unit will re-start operation automatically with the original setting temperature by activity detection during the stand-by mode. When stand-by mode continues for 12 hours, unit stops.

\*Compressor keeps stopped regardless of the setting temperature.

# 10.2.4 Operation control function by the outdoor control

# (1) Defrost operation

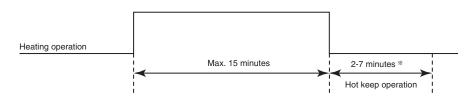
- (a) Starting conditions (Defrosting operation can be started only when all of the following conditions are satisfied.)
  - 1) After start of heating operation
    - When it elapsed 35 minutes. (Accumulated compressor operation time)
  - 2) After end of defrosting operation
    - When it elapsed 35 minutes. (Accumulated compressor operation time)
  - 3) Outdoor heat exchanger sensor (TH2) temperature
  - When the temperature has been below  $-5^{\circ}$ C for 3 minutes continuously.
  - 4) The difference between the outdoor air sensor temperature and the outdoor heat exchanger sensor temperature (TH3-TH2)
    - The outdoor air temperature  $\geq 0^{\circ}$ C : 7°C or higher
    - -15°C  $\leq$  The outdoor air temperature < 0°C : 3/15 × The outdoor air temperature + 7°C or higher (FDTC25)

 $4/15 \times$  The outdoor air temperature + 7°C or higher (FDTC35)

- The outdoor air temperature < -15°C : -5°C or higher FDTC25 FDTC35 Outdoor heat exchanger temperature (°C) Outdoor heat exchanger temperature  $(^{\circ}C)$ -10 -10 -10 -20 -20 -15 -10 -20 -15 -10-5 0 10 Outdoor air temperature (°C) Outdoor air temperature (°C)
- 5) During continuous compressor operation

In addition, when the speed command from the indoor control of the indoor unit during heating operation has counted 0 rps 10 times or more and all conditions of 1), 2) and 3) above and the outdoor air temperature is 3°C or less are satisfied (note that when the temperature for outdoor heat exchanger sensor (TH2) is -5°C or less: 62 rps or more, -4°C or less: less than 62 rps), defrost operation is started.

- (b) Ending conditions (Operation returns to the heating cycle when either one of the following is satisfied.)
  - 1) Outdoor heat exchanger sensor (TH2) temperature: 13°C or higher
  - 2) Continued defrost operation time  $\rightarrow$  For more than 15 minutes Defrost operation



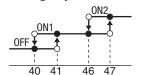
\*Depends on an operation condition, the time can be longer than 7 minutes.

#### (2) Cooling overload protective control

#### (a) Operating conditions

When the outdoor air temperature (TH3) has become continuously for 30 seconds at 41°C or more, or 47°C or more with the compressor running, the lower limit speed of compressor is brought up.

Outdoor air temperature	41°C or more	47°C or more
Lower limit speed	30 rps	45 rps



Outdoor air temperature (°C)

### (b) Detail of operation

- 1) The outdoor fan is stepped up by 3 speed step. (Upper limit 8th speed)
- 2) The lower limit of compressor command speed is set to 30 or 45 rps and even if the calculated result becomes lower than that after fuzzy calculation, the speed is kept to 30 or 45 rps. However, when the thermo OFF, the speed is reduced to 0 rps.

### (c) Reset conditions

When either of the following condition is satisfied

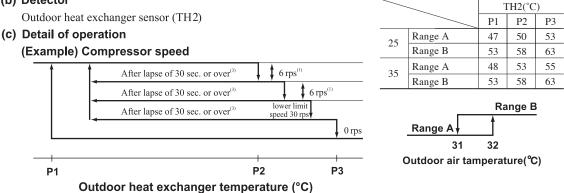
- 1) The outdoor air temperature is lower than 40°C.
- 2) The compressor command speed is 0 rps.

### (3) Cooling high pressure control

### (a) Purpose

Prevents anomalous high pressure operation during cooling

#### (b) Detector



Notes (1) When the outdoor heat exchanger temperature is in the range of P2-P3°C, the speed is reduced by 6 rps at each 30 seconds. When the temperature is P3°C or higher, the compressor is stopped. (2)

When the outdoor heat exchanger temperature is in the range of P1-P2°C, if the compressor speed is been maintained and the operation has (3)continued for more than 20 seconds at the same speed, it returns to the normal cooling operation.

#### (4) Cooling low outdoor temperature protective control

#### (a) Operating conditions

When the outdoor air temperature (TH3) is 22°C or lower continues for 20 seconds while the compressor command speed is other than 0 rps

### (b) Detail of operation

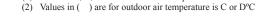
1) The lower limit of the compressor command speed is set to 50  $\langle 44 \rangle$  (30) rps and even if the speed becomes

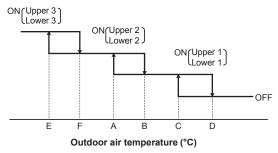
lower than 50  $\langle 44 \rangle$  (30) rps, the speed is kept to 50  $\langle 44 \rangle$  (30) rps. However, when the thermo OFF, the speed is reduced to 0 rps.

2) The upper limit of the compressor command speed is set to 50  $\langle 50 \rangle$  (60) rps and even if the calculated result be-

comes higher than that after fuzzy calculation, the speed is kept to 50  $\langle 50 \rangle$  (60) rps.

Notes (1) Values in  $\langle \rangle$  are for outdoor air temperature is A or B<sup>o</sup>C

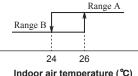




Compressor speed: Upper/lower limit (rps)								
Low Range B	rer 1 Range A	Upper 1	Lower 2	Upper 2	Lower 3	Upper 3		
30	Release	60	44	50	50	50		

•Values of A, B, C, D, E, F
-----------------------------

	Outdoor air temperature (°C)           E         F         A         B         C         D					
First time	-8	-5	0	3	22	25
After the second times	-2	1	5	8	25	28



Indoor air temperature (°C)

### (c) Reset conditions

When either of the following condition is satisfied

- 1) The outdoor air temperature (TH3) is D °C or higher.
- 2) The compressor command speed is 0 rps.

### (5) Heating high pressure control

### (a) Starting condition

When the indoor heat exchanger temperature (Thi-R) has risen to a specified temperature while the compressor is turned on.

(b) Compressor speed is controlled according to the zones of indoor heat exchanger temperature as shown by the following table.

1		Thi	Thi-R <p1 p1≦thi-r<p2="" p<="" th=""><th>P2≦Thi-R<p3< th=""><th>P3≦Thi-R</th></p3<></th></p1>		P2≦Thi-R <p3< th=""><th>P3≦Thi-R</th></p3<>	P3≦Thi-R	
Protection control speed (NP)		N	Normal		Retention	NP-4rps	NP-8rps
Sampling time	(s)	N	Normal		20	20	20
					Unit:	°C	
NP Thi-R	Thi-R P1		P2		P3		
NP<50	47	7	52		54		
50≦NP<92	47.	5 55			57		
92≦NP<115	47.5	-39	55-40		57-42		
115 <np< th=""><th>30</th><th>)</th><th>40</th><th></th><th>42</th><th></th><th></th></np<>	30	)	40		42		

### (6) Heating overload protective control

# (a) Indoor unit side

#### 1) Operating conditions

When the outdoor air temperature (TH3) is 17°C or higher continues for 30 seconds while

the compressor command speed other than 0 rps

## 2) Detail of operation

The indoor fan is stepped up by 1 speed step. (Upper limit 9th speed)

### 3) Reset conditions

The outdoor air temperature (TH3) is lower than 16°C.

### (b) Outdoor unit side

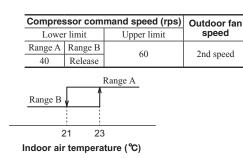
#### 1) Operating conditions

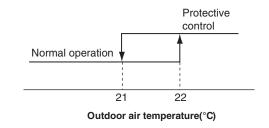
When the outdoor air temperature (TH3) is 22°C or higher continues for 30

seconds while the compressor command speed other than 0 rps

### 2) Detail of operation

Upper and lower limits of compressor speed and the outdoor unit fan speed are restricted.





#### 3) Reset condition

When the outdoor air temperature (TH3) drops below 21°C

#### (7) Heating low outdoor temperature protective control

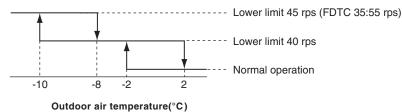
#### (a) Protective control I

#### 1) Operating conditions

When the outdoor air temperature (TH3) is -2°C or lower continues for 30 seconds while the compressor command speed is other than 0 rps

#### 2) Detail of operation

The lower limit compressor command speed is changed as shown in the figure below.



#### 3) Reset conditions

- When either of the following condition is satisfied
- a) The outdoor air temperature (TH3) becomes 2°C.
- b) The compressor command speed is 0 rps.

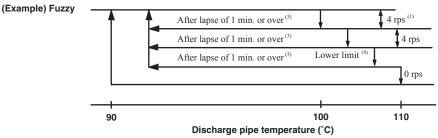
#### (8) Compressor overheat protection

#### (a) Purpose

It is designed to prevent deterioration of oil, burnout of motor coil and other trouble resulting from the compressor overheat.

### (b) Detail of operation

1) Speeds are controlled with temperature detected by the sensor mounted on the discharge pipe.



- Notes (1) When the discharge pipe temperature is in the range of 100-110°C, the speed is reduced by 4 rps.
  - (2) When the discharge pipe temperature is raised and continues operation for 20 seconds without changing, then the speed is reduced again by 4 rps.
  - (3) If the discharge pipe temperature is in the range of 90-100°C even when the compressor speed is maintained for 3 minutes when the temperature is in the
    - range of 90-100°C, the speed is raised by 1 rps and kept at that speed for 1 minute. This process is repeated until the command speed is reached.
  - (4) Lower limit speed

Model	Item	Cooling	Heating
Lower limit speed		15 rps	20 rps

2) If the temperature of 110°C is detected by the sensor on the discharge pipe, then the compressor will stop immediately. When the discharge pipe temperature drops and the time delay of 3 minutes is over, the unit starts again within 1 hour but there is no start at the third time.

### (9) Current safe

### (a) Purpose

Current is controlled not to exceed the upper limit of the setting operation current.

### (b) Detail of operation

Input current to the converter is monitored with the current sensor fixed on the printed circuit board of the outdoor unit and, if the operation current value reaches the limiting current value, the compressor command speed is reduced. If the mechanism is actuated when the compressor command speed is less than 30 (FDTC35:36) rps, the compressor is stopped immediately. Operation starts again after a delay time of 3 minutes.

### (10) Current cut

### (a) Purpose

Inverter is protected from overcurrent.

### (b) Detail of operation

Output current from the inverter is monitored with a shunt resistor and, if the current exceeds the setting value, the compressor is stopped immediately. Operation starts again after a delay time of 3 minutes.

#### (11) Outdoor unit failure

This is a function for determining when there is trouble with the outdoor unit during air-conditioning.

The compressor is stopped if any one of the following in item (i), (ii) is satisfied. Once the unit is stopped by this function, it is not restarted.

(i) When the input current is measured at 1 A or less for 3 continuous minutes or more

(ii) If the outdoor unit sends a 0 rps signal to the indoor unit 3 times or more within 20 minutes of the power being turned on

#### (12) Indoor fan motor protection

When the air-conditioner is operating and the indoor fan motor is turned ON, if the indoor fan motor has operated at 200 min<sup>-1</sup> or under for more than 30 seconds, the unit enters first in the stop mode and then stops the entire system.

### (13) Rotor lock

If the motor for the compressor does not turn after it has been started, it is determined that a compressor lock has occurred and the compressor is stopped.

### (14) Outdoor fan motor protection

If the outdoor fan motor has operated at 75 min<sup>-1</sup> or under for more than 30 seconds, the compressor and fan motor are stopped.

### (15) Outdoor fan control at low outdoor air temperature

### (a) Cooling

#### 1) Operating conditions

When the outdoor air temperature (TH3) is 22°C or lower continues for 30 seconds while the compressor speed is other than 0 rps

#### 2) Detail of operation

After the outdoor fan operates at A speed for 60 seconds; the corresponding outdoor heat exchanger temperature shall implement the following controls.

• Value of A

	Outdoor fan
Outdoor temperature > 10°C	2nd speed
Outdoor temperature ≦ 10°C	1st speed

a) Outdoor heat exchanger temperature (TH2)  $\leq 21^{\circ}$ C

After the outdoor fan speed drops (down) to 1 speed for 60 seconds; if the outdoor heat exchanger temperature is lower than 21°C, gradually reduce the outdoor fan speed by 1 speed. (Lower limit 1st speed)

b) 21°C < Outdoor heat exchanger temperature (TH2)  $\leq$  38°C

After the outdoor fan speed maintains at A speed for 20 seconds; if the outdoor heat exchanger temperature is 21°C-38°C, maintain outdoor fan speed.

c) Outdoor heat exchanger tempeature (TH2) > 38°C

After the outdoor fan speed rises (up) to 1 speed for 60 seconds; if the outdoor heat exchanger temperature is higher than 38°C, gradually increase outdoor fan speed by 1 speed. (Upper limit 3rd speed)

#### 3) Reset conditions

When either of the following conditions is satisfied

- a) The outdoor air temperature (TH3) is 24°C or higher.
- b) The compressor command speed is 0 rps.

## (b) Heating

### 1) Operating conditions

When the outdoor air temperature (TH3) is 0°C (In addition SRC35:6°C) or lower continues for 30 seconds while the compressor command speed is other than 0 rps

### 2) Detail of operation

The outdoor fan is stepped up by 2 speed step at each 20 seconds. (Upper limit 8th speed (In addition SRC35:1 speed step up corresponding to inverter number of rotations when the outdoor air temperature (TH3) is 6°C or lower))

### 3) Reset conditions

When either of the following conditions is satisfied

- a) The outdoor air temperature (TH3) is 2°C (SRC35:7°C) or higher.
- b) The compressor command speed is 0 rps.

### (16) Refrigeration cycle system protection

### (a) Starting conditions

- 1) When 5 minutes have elapsed after the compressor ON or the completion of the defrost control
- 2) Other than the defrost control
- 3) When, after satisfying the conditions of 1) and 2) above, the compressor speed, room temperature (Thi-A) and indoor heat exchanger temperature (Thi-R) have satisfied the conditions in the following table for 5 minutes:

Operation mode	Compressor speed (N)	Room temperature (Thi-A)	Room temperature (Thi-A)/ Indoor heat exchanger temperature (Thi-R)
Cooling	50≦N	10≦Thi-A ≦40	Thi-A-4 <thi-r< td=""></thi-r<>
Heating <sup>(1)</sup>	50≦N	0≦Thi-A≦40	Thi-R <thi-a+4< td=""></thi-a+4<>

Note (1) Except that the fan speed is Hi in heating operation.

#### (b) Contents of control

1) When the conditions of (a) above are satified, the compressor stops.

2) Error stop occurs when the compressor has stopped 3 times within 60 minutes.

#### (c) Reset condition

When the compressor has been turned OFF

# **11. MAINTENANCE DATA**

# 11.1 SRK, SRF & SRR series

# (1) Cautions

- (a) If you are disassembling and checking an air-conditioner, be sure to turn off the power before beginning. When working on indoor units, let the unit sit for about 1 minute after turning off the power before you begin work. When working on an outdoor unit, there may be an electrical charge applied to the main circuit (electrolytic condenser), so begin work only after discharging this electrical charge (to DC10V or lower).
- (b) When taking out printed circuit boards, be sure to do so without exerting force on the circuit boards or package components.
- (c) When disconnecting and connecting connectors, take hold of the connector housing and do not pull on the lead wires.

### (2) Items to check before troubleshooting

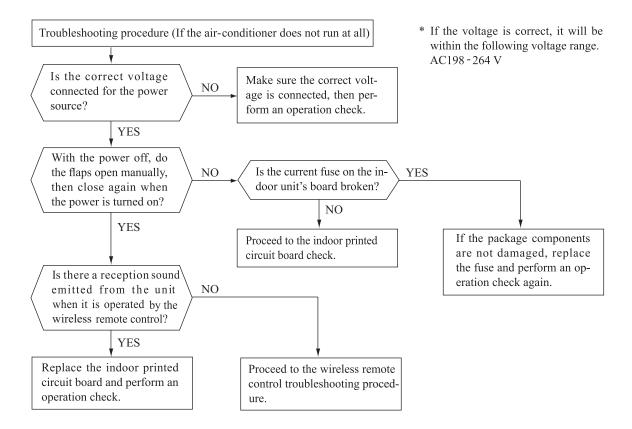
- (a) Have you thoroughly investigated the details of the trouble which the customer is complaining about?
- (b) Is the air-conditioner running? Is it displaying any self-diagnosis information?
- (c) Is a power source with the correct voltage connected?
- (d) Are the control lines connecting the indoor and outdoor units wired correctly and connected securely?
- (e) Is the outdoor unit's service valve open?

### (3) Troubleshooting procedure (If the air-conditioner does not run at all)

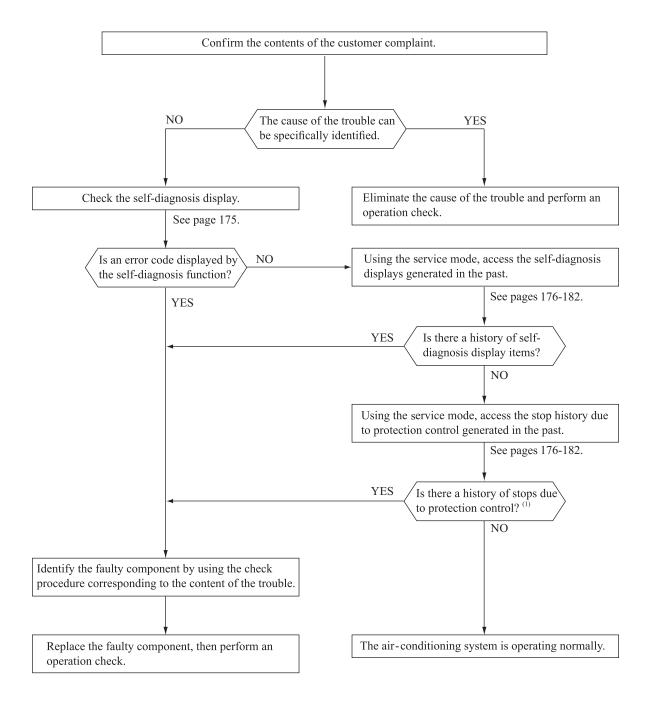
If the air-conditioner does not run at all, diagnose the trouble using the following troubleshooting procedure. If the air-conditioner is running but breaks down, proceed to troubleshooting step (4).

**Important** When all the following conditions are satisfied, we say that the air-conditioner will not run at all.

- (a) The RUN light does not light up.
- (b) The flaps do not open.
- (c) The indoor unit fan motors do not run.
- (d) The self-diagnosis display does not function.



### (4) Troubleshooting procedure (If the air-conditioner runs)



Note (1) Even in cases where only intermittent stop data are generated, the air-conditioning system is normal. However, if the same protective operation recurs repeatedly (3 or more times), it will lead to customer complaints. Judge the conditions in comparison with the contents of the complaints.

### (5) Self-diagnosis table

When this air-conditioner performs an emergency stop, the reason why the emergency stop occurred is displayed by the flashing of display lights. If the air-conditioner is operated using the remote control 3 minutes or more after the emergency stop, the trouble display stops and the air-conditioner resumes operation.  $^{\left( l\right) }$ 

ndoor unit d	lisplay panel	Wired <sup>(2)</sup> remote	Description	Causa	Display (flashing) condition
RUN light	TIMER light	control display	of trouble	Cause	Display (flashing) condition
1-time flash	ON	_	Heat exchanger sensor 1 error	<ul> <li>Broken heat exchanger sensor l wire, poor connector connection</li> <li>Indoor unit PCB is faulty</li> </ul>	When a heat exchanger sensor 1 wire disconnection is detected while operation is stopped. (If a temperature of -28°C or lower is detected for 15 seconds, it is judged that the wire is discon- nected.) (Not displayed during operation.)
2-time flash	ON	_	Room temperature sensor error	<ul> <li>Broken room temperature sensor wire, poor connector connection</li> <li>Indoor unit PCB is faulty</li> </ul>	When a room temperature sensor wire disconnection is detected while operation is stopped. (If a temperature of -45°C or lowe is detected for 15 seconds, it is judged that the wire is disco- nnected.) (Not displayed during operation.)
3-time flash	ON	_	Heat exchanger sensor 2 error	<ul> <li>Broken heat exchanger sensor 2 wire, poor connector connection</li> <li>Indoor unit PCB is faulty</li> </ul>	When a heat exchanger sensor 2 wire disconnection is detected while operation is stopped. (If a temperature of -28°C or lower is detected for 15 seconds, it is judged that the wire is discon- nected.)(Not displayed during operation.)
4-time flash	ON	E 9	Drain trouble (SRR series only)	<ul> <li>Defective drain pump (DM), broken drain pump wire</li> <li>Anomalous float switch operation Defective indoor unit PCB faulty</li> </ul>	If the float switch OPEN is defected for 3 seconds continuously or if float switch connector or wire is disconnected.
6-time flash	ON	E 16	Indoor fan motor error	• Defective fan motor, poor connector connection	When conditions for turning the indoor unit's fan motor on exist during ai -conditioner operation, an indoor unit fan motor speed of 300min or lower is measured for 30 seconds or longer. (The air-conditioner stops.
Keeps flashing	1-time flash	E 38	Outdoor air temperature sensor error	<ul> <li>Broken outdoor air temp. sensor wire, poor connector connection</li> <li>Outdoor unit PCB is faulty</li> </ul>	-55°C or lower is detected for 5 seconds continuously 3 times within 40 minutes after initial detection of this anomalous temperature.Or -55°C or higher is detected for within 20 seconds after power ON. (The compressor is stopped.)
Keeps flashing	2-time flash	E 37	Outdoor heat exchanger sensor error	<ul> <li>Broken heat exchanger sensor wire, poor connector connection</li> <li>Outdoor unit PCB is faulty</li> </ul>	−55°C or lower is detected for 5 seconds continuously 3 times within 40 minutes after initial detection of this anomalous temperature.Or −55°C or higher is detected for within 20 seconds after power ON. (The compressor is stopped.)
Keeps flashing	4-time flash	E 39	Discharge pipe sensor error	<ul> <li>Broken discharge pipe sensor wire, poor connector connection</li> <li>Outdoor unit PCB is faulty</li> </ul>	-25°C or lower is detected for 5 seconds continuously 3 times within 40 minutes after initial detection of this anomalous temperature.(The compressor is stopped.)
ON	1-time flash	E 42	Current cut	Compressor locking, open phase on compressor output, short circuit on power transistor, service valve is closed	The compressor output current exceeds the set value during compressor start. (The air-conditioner stops.)
ON	2-time flash	E 59	Trouble of outdoor unit	Broken compressor wire     Compressor blockage	When there is an emergency stop caused by trouble in the outdoor unit, or the input current value is found to be lower than the set value.(The air-conditioner stops.)
ON	3-time flash	E 58	Current safe stop	<ul> <li>Overload operation</li> <li>Overcharge</li> <li>Compressor locking</li> </ul>	When the compressor command speed is lower than the set value and the current safe has operated. (the compressor stops)
ON	4-time flash	E 51	Power transistor error	Broken power transistor	When the power transistor is judged breakdown while compressor starts. (The compressor is stopped.)
ON	5-time flash	E 36	Over heat of compressor	• Gas shortage, defective discharge pipe sensor, service valve is closed	When the value of the discharge pipe sensor exceeds the se value.(The air-conditioner stops.)
ON	6-time flash	E 5	Error of signal transmission	• Defective power source, Broken signal wire, defective indoor/outdoor unit PCB	When there is no signal between the indoor unit PCB and outdoor unit PCB for 10 seconds or longer (when the power is turned on), or when there is no signal for 7 minute 35 seconds or longer (during operation)(the compressor is stopped).
ON	7-time flash	E 48	Outdoor fan motor error	• Defective fan motor, poor connector connection	When the outdoor unit's fan motor speed continues for 30 seconds or longer at 75 min <sup>-1</sup> or lower. (3 times) (The air -conditioner stops.)
ON	Keeps flashing	E 35	Cooling high pressure protecton	<ul> <li>Overload operation, overcharge</li> <li>Broken outdoor heat exchange sensor wire</li> <li>Service valve is closed</li> </ul>	When the value of the outdoor heat exchanger sensor exceeds the set value.
2-time flash	2-time flash	E 60	Rotor lock	<ul> <li>Defective compressor</li> <li>Open phase on compressor</li> <li>Defective outdoor unit PCB</li> </ul>	If the compressor motor's magnetic pole positions cannot be correctly detected when the compressor starts. (The air-conditioner stops.)
5-time flash	ON	E 47	Active filter voltage error	Defective active filter	When the wrong voltage connected for the power source. When the outdoor unit PCB is faulty
7-time flash	ON	E 57	Refrigeration cycle system protective control	<ul> <li>Service valve is closed.</li> <li>Refrigerant is insufficient</li> </ul>	When refrigeration cycle system protective control operates
7-time flash	1-time flash	E 40	Service valve (gas side) closed opertion	<ul> <li>Service valve (gas side) closed</li> <li>Defective outdoor unit PCB</li> </ul>	If the output current of inverter exceeds the specifications, it makes the compressor stopping. (In heating mode). After 3-minute delay, the compressor restarts, but if this anomaly occurs 2 times within 20 minutes after the initial detection.
_	_	E 1	Error of wired remote control wiring	• Broken wired remote control wire, defective indoor unit PCB	The wired remote control wire Y is open. The wired remote control wires X and Y are reversely connected. Noise is penetrating the wired remote control lines. The wired remote control or indoor unit PCB is faulty. (The communications circuit is faulty.)

Notes (1)The air-conditioner cannot be restarted using the remote control for 3 minutes after operation stops. (2)The wired remote control is option parts.

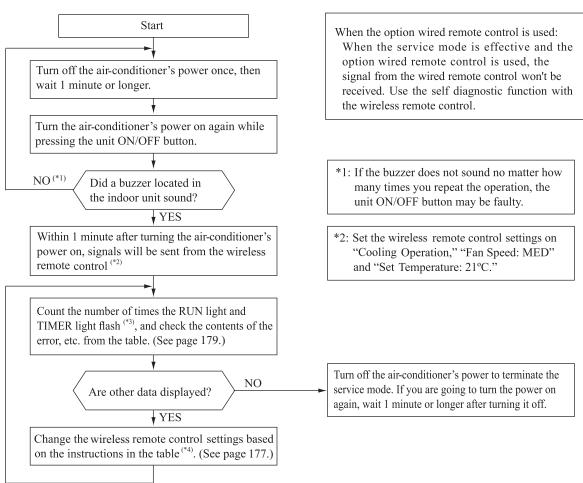
### (6) Service mode (Trouble mode access function)

This air-conditioner is capable of recording error displays and protective stops (service data) which have occurred in the past. If self-diagnosis displays cannot be confirmed, it is possible to get a grasp of the conditions at the time trouble occurred by checking these service data.

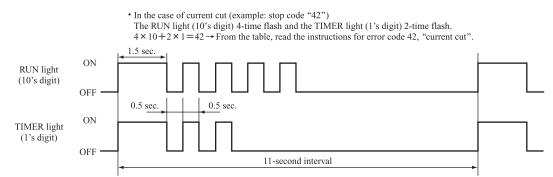
Term	Explanation
Service mode	The service mode is the mode where service data are displayed by flashing of the display lights when the operations in item (b) below are performed with the indoor control.
Service data	These are the contents of error displays and protective stops which occurred in the past in the air- conditioner system. Error display contents and protective stop data from past anomalous operations of the air-conditioner system are saved in the indoor unit control's non-volatile memory (memory which is not erased when the power goes off). There are two types of data, self-diagnosis data and stop data, described below.
Self-diagnosis data	These are the data which display the reason why a stop occurred when an error display(self- diagnosis display) occurred in an indoor unit. Data are recorded for up to 5 previous occurrences. Data which are older than the 5th previous occurrence are erased. In addition, data on the temperature of each sensor (room temperature, indoor heat exchanger, outdoor heat exchanger, outdoor air temperature, discharge pipe), remote control information (operation switching, fan speed switching) are recorded when trouble occurs, so more detailed information can be checked.
Stop data	These are the data which display the reason by a stop occurred when the air-conditioning system performed protective stops, etc. in the past. Even if stop data alone are generated, the system restarts automatically. (After executing the stop mode while the display is normal, the system restarts automatically.) Data for up to 10 previous occasions are stored. Data older than the 10th previous occasion are erased. (Important) In cases where transient stop data only are generated, the air-conditioner system may still be normal. However, if the same protective stop occurs frequently (3 or more times), it could lead to customer complaints.

### (a) Explanation of terms

### (b) Service mode display procedure



\*3: To count the number of flashes in the service mode, count the number of flashes after the light lights up for 1.5 second initially (start signal). (The time that the light lights up for 1.5 second (start signal) is not counted in the number of flashes.)



\*4: When in the service mode, when the wireless remote control settings (operation mode, fan speed mode, temperature setting) are set as shown in the following table and sent to the air-conditioner unit, the unit switches to display of service data.

### (i) Self-diagnosis data

What are Self-diagnosis Data?

These are control data (reasons for stops, temperature at each sensor, wireless remote control information) from the time when there were error displays (abnormal stops) in the indoor unit in the past. Data from up to 5 previous occasions are stored in memory. Data older than the 5th previous occasion are erased. The temperature setting indicates how many occasions previous to the present setting the error display data are and the operation mode and fan speed mode data show the type of data.

Wireless remote control setting		Contents of extruit data	
Operation mode	Fan speed mode	Contents of output data	
	MED	Displays the reason for stopping display in the past (error code).	
Cooling HI AUTO	HI	Displays the room temperature sensor temperature at the time the error code was displayed in the past.	
	AUTO	Displays the indoor heat exchanger sensor temperature at the time the error code was displayed in the past.	
	LO	Displays the wireless remote control information at the time the error code was displayed in the past.	
Heating	MED	Displays the outdoor air temperature sensor temperature at the time the error code was displayed in the past.	
Heating	HI	Displays the outdoor heat exchanger sensor temperature at the time the error code was displayed in the past.	
	AUTO	Displays the discharge pipe sensor temperature at the time the error code was displayed in the past.	

Wireless remote control setting	Indicates the number of occasions previous to the present
Temperature setting	the error display data are from.
21°C	1 time previous (previous time)
22°C	2 times previous
23°C	3 times previous
24°C	4 times previous
25°C	5 times previous

#### Only for indoor heat exchanger sensor 2

Wireless remote control setting	Indicates the number of occasions previous to the present	
Temperature setting	the error display data are from.	
26°C	1 time previous (previous time)	
27°C	2 times previous	
28°C	3 times previous	
29°C	4 times previous	
30°C	5 times previous	

# (Example)

Wireless	remote conti	ol setting		
Operation mode	Fan speed mode	Temperature setting	Displayed data	
	21°C 22°C	Displays the reason for the stop (error code) the previous time an error was displayed.		
		22°C	Displays the reason for the stop (error code) 2 times previous when an error was displayed.	
Cooling	MED	23°C	Displays the reason for the stop (error code) 3 times previous when an error was displayed.	
		24°C	Displays the reason for the stop (error code) 4 times previous when an error was displayed.	
		25°C	Displays the reason for the stop (error code) 5 times previous when an error was displayed.	

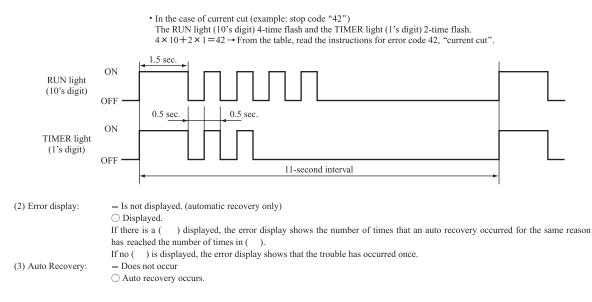
# (ii) Stop data

Wireless remote control setting		ol setting		
Operation mode	Fan speed mode	Temperature setting	Displayed data	
		21°C	Displays the reason for the stop (stop code) the previous time when the air-conditioner was stopped by protective stop control.	
		22°C	Displays the reason for the stop (stop code) 2 times previous when the air-conditioner was stopped by protective stop control.	
		23°C	Displays the reason for the stop (stop code) 3 times previous when the air-conditioner was stopped by protective stop control.	
		24°C	Displays the reason for the stop (stop code) 4 times previous when the air-conditioner was stopped by protective stop control.	
Cooling LO	10	25°C	Displays the reason for the stop (stop code) 5 times previous when the air-conditioner was stopped by protective stop control.	
	LU	26°C	Displays the reason for the stop (stop code) 6 times previous when the air-conditioner was stopped by protective stop control.	
		27°C	Displays the reason for the stop (stop code) 7 times previous when the air-conditioner was stopped by protective stop control.	
		28°C	Displays the reason for the stop (stop code) 8 times previous when the air-conditioner was stopped by protective stop control.	
		29°C	Displays the reason for the stop (stop code) 9 times previous when the air-conditioner was stopped by protective stop control.	
			Displays the reason for the stop (stop code) 10 times previous when the air-conditioner was stopped by protective stop control.	

Number of fla service RUN light	mode TIMER light	Stop coad or Error coad	Error content	Cause	Occurrence conditions	Error display	Auto
10's digit)		0	Normal				
	1-time flash	01	Error of wired remote control wiring	Broken wired remote control wire. defective indoor unit PCB	The wired remote control wire Y is open. The wired remote control wires X and Y are reversely connected. Noise is penetrating the wired remote control lines. The wired remote control or indoor unit PCB is faulty.		
OFF .	5-time flash	05	Can not receive signals for 35 seconds (if communications have recovered)	Power source is faulty Power source cables and signal lines are improperly wired. Indoor or outdoor unit PCB are faulty	When 35 seconds passes without communications signals from either the outdoor unit or the indoor unit being detected correctly.	0	-
	5-time flash	35	Cooling high pressure control	Cooling overload operation. Outdoor unit fan speed drops. Outdoor heat exchanger sensor is short circuit.	When the outdoor heat exchanger sensor's value exceeds the set value.	(5 times)	0
	6-time flash	36	Compressor overheat 110°C	Refrigerant is insufficient. Discharge pipe sensor is faulty. Service valve is closed.	When the discharge pipe sensor's value exceeds the set value.	(2 times)	0
3-time flash	7-time flash	37	Outdoor heat exchanger temperature sensor is abnormal	Outdoor heat exchanger sensor wire is disconnected. Connector connections are poor. Outdoor unit PCB is faulty	-55°C or lower is detected for 5 seconds continuously 3 times within 40 minutes after initial detection of this anomalous temperature. 07-55°C higher is detected for 5 seconds continuously within 20 seconds after power ON.	(3 times)	0
	8-time flash	38	Outdoor air temperature sensor is abnormal	Outdoor air temperature sensor wire is disconnected. Connector connections are poor. Outdoor unit PCB is faulty	-55°C or lower is detected for 5 seconds continuously 3 times within 40 minutes after initial detection of this anomalous temperature. 0r-55°C higher is detected for 5 seconds continuously within 20 seconds after power ON.	(3 times)	0
	9-time flash	39	Discharge pipe temperature sensor is abnormal (anomalous stop)	Discharge pipe sensor wire is disconnected. Connector connections are poor. Outdoor unit PCB is faulty	-25°C or lower is detected for 5 seconds continuously 3 times within 40 minutes after intial detection of this anomalous temperature.	(3 times)	0
	OFF	40	Service valve (gas side) closed operation (SRK series only)	Service valve (gas side) closed Outdoor unit PCB is faulty.	If the inverter output current value exceeds the setting value within 80 seconds after the compressor ON in the heating mode, the compressor stops.	(2 times)	0
4-time flash	2-time flash	42	Current cut	Compressor lock. Compressor wiring short circuit. Compressor output is open phase. Outdoor unit PCB is faulty Service valve is closed. Electronic expansion valve is faulty. Compressor is faulty.	Compressor start fails 42 times in succession and the reason for the final failure is current cut.	(2 times)	0
	7-time flash	47	Active filter voltage error	Defective active filter	When the wrong voltage connected for the power source. When the outdoor unit PCB is faulty.	0	-
	8-time flash	48	Outdoor unit's fan motor is abnormal	Outdoor fan motor is faulty. Connector connections are poor. Outdoor unit PCB is faulty	When a fan speed of 75 min <sup>-1</sup> or lower continues for 30 seconds or longer.	(3 times)	0
	1-time flash	51	Short-circuit in the power transistor (high side) Current cut circuit breakdown	Outdoor unit PCB is faulty Power transistor is damaged.	When it is judged that the power transistor was damaged at the time the compressor started.	0	-
	7-time flash	57	Refrigeration cycle system protective control	Service valve is closed. Refrigerant is insufficient.	When refrigeration cycle system protective control operates.	(3 times)	0
5-time flash	8-time flash	58	Current safe	Refrigerant is overcharge. Compressor lock. Overload operation.	When there is a current safe stop during operation.	_	0
	9-time flash	59	Compressor wiring is unconnection Voltage drop Low speed protective control	Compressor wiring is disconnected. Power transistor is damaged. Power source construction is defective. Outdoor unit PCB is faulty Compressor is faulty.	When the current is 1A or less at the time the compressor started. When the power source voltage drops during operation. When the compressor command speed is 1 ower than 32 rps for 60 minutes.	0	0
	OFF	60	Rotor lock	Compressor is faulty. Compressor output is open phase. Electronic expansion valve is faulty. Overload operation. Outdoor unit PCB is faulty	After the compressor starts, when the compressor stops due to rotor lock.	(2 times)	0
6-time flash	1-time flash	61	Connection lines between the indoor and outdoor units are faulty	Connection lines are faulty. Indoor or outdoor unit PCB are faulty	When 10 seconds passes after the power is turned on without communications signals from the indoor or outdoor unit being detected correctly.	0	-
	2-time flash	62	Serial transmission error	Indoor or outdoor unit PCB are faulty Noise is causing faulty operation.	When 7 minute 35 seconds passes without communications signals from either the outdoor unit or the indoor unit being detected correctly.	0	_
	OFF	80	Indoor fan motor is abnormal	Indoor fan motor is faulty. Connector connections are poor. Indoor unit PCB is faulty	When the indoor unit's fan motor is detected to be running at 300min <sup>-1</sup> or lower speed with the fan motor in the ON condition while the air-conditioner is running.	0	_
	2-time flash	82	Indoor heat exchanger temperature sensor is abnormal (anomalous stop)	Indoor heat exchanger sensor wire is disconnected. Connector connections are poor.	When a temperature of -28°C or lower is sensed continuously for 40 minutes during heating operation. (the compressor stops).	0	_
8-time flash	4-time flash	84	Anti-condensation control	High humidity condition.	Anti-condensation prevention control is operating.		0
	5-time flash	85	Anti-frost control	Indoor unit fan speed drops. Indoor heat exchanger sensor is broken wire.	When the anti-frost control operates and the compressor stops during cooling operation.		C
	6-time flash	86	Heating high pressure control	Heating overload operation. Indoor unit fan speed drops. Indoor heat exchanger sensor is short circuit.	When high pressure control operates during heating operation and the compressor stops.	_	0
	7-time flash	87	Drain trouble (SRR series only)	Defective drain pump (DM), broken drain pump wire Anomalous float switch operation Defective indoor unit PCB faulty	If the float switch OPEN is defected for 3 seconds continuously or if float switch connector or wire is disconnected.	(4 times)	-

### (c) Error code, stop code table (Assignment of error codes and stop codes is done in common for all models.)

Notes (1) The number of flashes when in the service mode do not include the 1.5 second period when the lights light up at first (start signal). (See the example shown below.)



### (d) Operation mode, Fan speed mode information tables

(i) Operation mode

Display pattern when in service mode RUN light (10's digit)	Operation mode when there is an abnormal stop
_	AUTO
1-time flash	DRY
2-time flash	COOL
3-time flash	FAN
4-time flash	HEAT

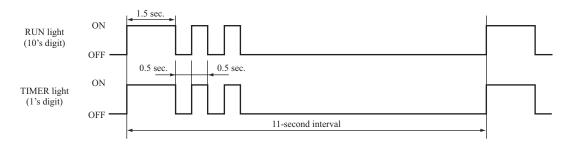
(ii) Fan speed mod	le
--------------------	----

Display pattern when in service mode	Fan speed mode when			
TIMER light (1's digit)	there is an abnormal stop			
_	AUTO			
2-time flash	HI			
3-time flash	MED			
4-time flash	LO			
5-time flash	ULO			
6-time flash	HI POWER			
7-time flash	ECONO			

\* If no data are recorded (error code is normal), the information display in the operation mode and fan speed mode becomes as follows.

Mode	Display when error code is normal.
Operation mode	AUTO
Fan speed mode	AUTO

(Example): Operation mode: COOL, Fan speed mode: HI



# (e) Temperatare information

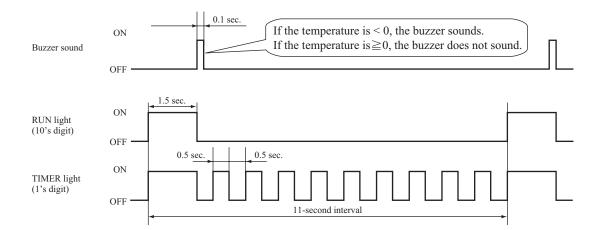
(i) Room temperature sensor, indoor heat exchanger temperature sensor, outdoor air temperature sensor, outdoor heat exchanger temperature sensor

				_		_	_		_	U	nit: °C
TIMER light (1's digit) RUN light (10's digit) Buzzer sound			1	2	3	4	5	6	7	8	9
	6	-60	-61	-62	-63	-64					
	5	-50	-51	-52	-53	-54	-55	-56	-57	-58	-59
Vaa	4	-40	-41	-42	-43	-44	-45	-46	-47	-48	-49
Yes (sounds for 0.1 second)	3	-30	-31	-32	-33	-34	-35	-36	-37	-38	-39
	2	-20	-21	-22	-23	-24	-25	-26	-27	-28	-29
	1	-10	-11	-12	-13	-14	-15	-16	-17	-18	-19
	0		-1	-2	-3	-4	-5	-6	-7	-8	-9
	0	0	1	2	3	4	5	6	7	8	9
	1	10	11	12	13	14	15	16	17	18	19
	2	20	21	22	23	24	25	26	27	28	29
	3	30	31	32	33	34	35	36	37	38	39
No	4	40	41	42	43	44	45	46	47	48	49
(does not sound)	5	50	51	52	53	54	55	56	57	58	59
	6	60	61	62	63	64	65	66	67	68	69
	7	70	71	72	73	74	75	76	77	78	79
	8	80	81	82	83	84	85	86	87	88	89
	9	90	91	92	93	94	95	96	97	98	99

\* If no data are recorded (error code is normal), the display for each temperature information becomes as shown below.

Sensor name	Sensor value displayed when the error code is normal
Room temperature sensor	-64°C
Indoor heat exchanger temperature sensor	-64°C
Outdoor air temperature sensor	-64°C
Outdoor heat exchanger temperature sensor	-64°C

(Example) Outdoor heat exchanger temperature data: "-9°C"



# (ii) Discharge pipe temperature sensor

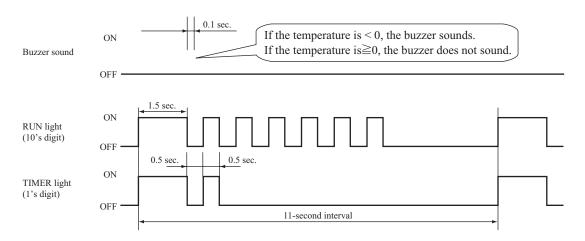
										Ur	nit: °C
TIMEF (1's di RUN light (10's digit) Buzzer sound		0	1	2	3	4	5	6	7	8	9
	3	-60	-62	-64							
Yes	2	-40	-42	-44	-46	-48	-50	-52	-54	-56	-58
(sounds for 0.1 second)	1	-20	-22	-24	-26	-28	-30	-32	-34	-36	-38
	0		-2	-4	-6	-8	-10	-12	-14	-16	-18
	0	0	2	4	6	8	10	12	14	16	18
	1	20	22	24	26	28	30	32	34	36	38
	2	40	42	44	46	48	50	52	54	56	58
No	3	60	62	64	66	68	70	72	74	76	78
(does not sound)	4	80	82	84	86	88	90	92	94	96	98
	5	100	102	104	106	108	110	112	114	116	118
	6	120	122	124	126	128	130	132	134	136	138
	7	140	142	144	146	148	150				

\* If no data are recorded (error code is normal), the display for each temperature information becomes as shown below.

Sensor name	Sensor value displayed when the error code is normal
Discharge pipe temperature sensor	-64°C

(Example) Discharge pipe temperature data: "122°C"

\* In the case of discharge pipe data, multiply the reading value by 2. (Below,  $61 \times 2 = (122^{\circ}C'')$ 

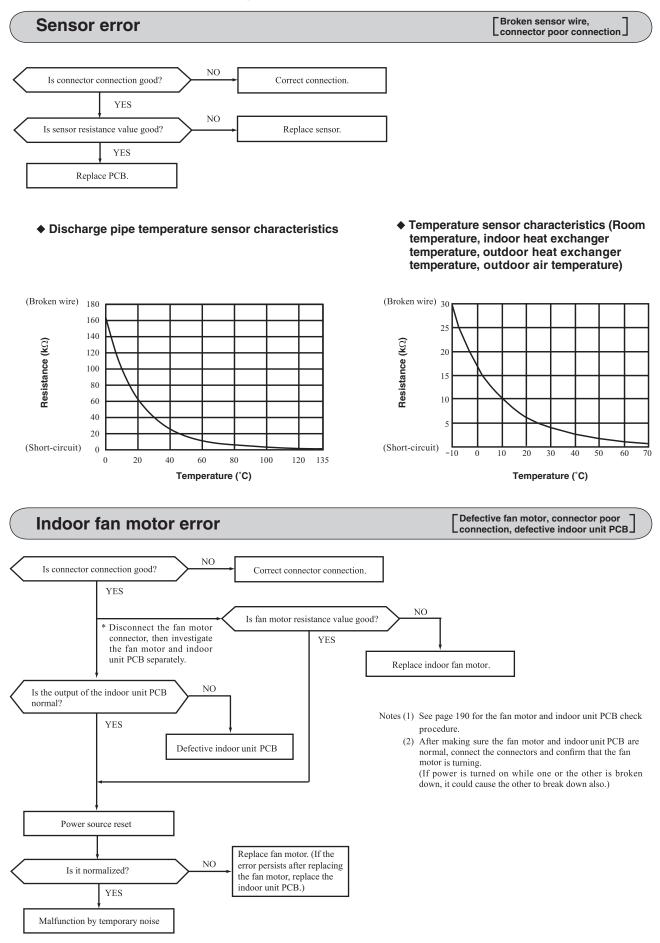


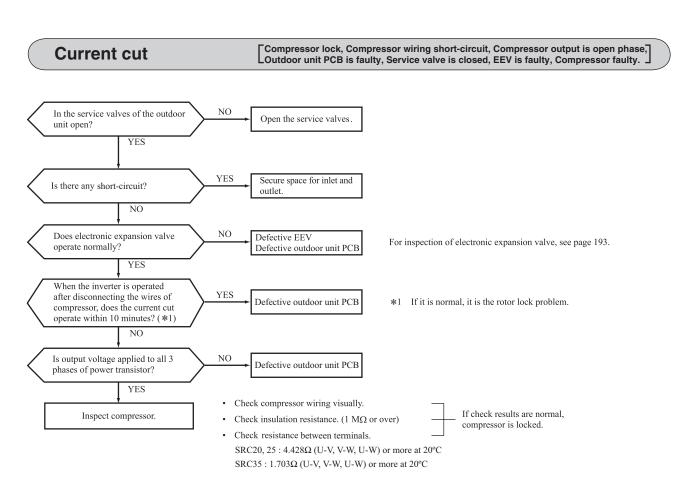
### Service data record form

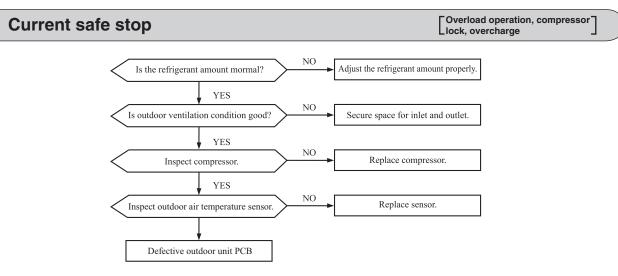
Customer				Model				
Date of inv	estigation							
Machine na	me							
Content of	complaint							
Wireless r	emote contro	l settings	Content of disclosed d			Display resul	ts	Display content
Temperature setting	Operation mode	Fan speed mode	Content of displayed d	Buzzer (Yes/No.)	RUN light (Times)	TIMER light (Times)	Display conten	
		MED	Error code on previous occasion					
	Cooling	HI	Room temperature sensor on previous occasi					
		AUTO	Indoor heat exchanger sensor 1 on previous o	ccasion				
21		LO	Wireless remote control information on previ	ous occasion				
		MED	Outdoor air temperature sensor on previous o	ccasion				
	Heating	HI	Outdoor heat exchanger sensor on previous o	ccasion				
		AUTO	Discharge pipe sensor on previous occasion					
26	Cooling	AUTO	Indoor heat exchanger sensor 2 on previous o	ccasion				
		MED	Error code on second previous occasion					
	Cooling	HI	Room temperature sensor on second previous	occasion				
		AUTO	Indoor heat exchanger sensor 1 on second prev	ous occasion				
22		LO	Wireless remote control information on seco	nd previous occasion				
		MED	Outdoor air temperature sensor on second pre	vious occasion				
	Heating	HI	Outdoor heat exchanger sensor on second pre					
		AUTO	Discharge pipe sensor on second previous oc	casion				
27	Cooling	AUTO	Indoor heat exchanger sensor 2 on second occ					
		MED	Error code on third previous occasion					
	Cooling	HI	Room temperature sensor on third previous o	ccasion				
		AUTO	Indoor heat exchanger sensor 1 on third previ					
23		LO	Wireless remote control information on third					
Heat		MED	Outdoor air temperature sensor on third previ	·				
	Heating	HI	Outdoor heat exchanger sensor on third previ					
		AUTO	Discharge pipe sensor on third previous occas					
28	Cooling	AUTO	Indoor heat exchanger sensor 2 on third occas	sion				
		MED	Error code on fourth previous occasion					
	Cooling	HI	Room temperature sensor on fourth previous	occasion				
		AUTO	Indoor heat exchanger sensor 1 on fourth pre-	vious occasion				
24		LO	Wireless remote control information on four	th previous occasion				
		MED	Outdoor air temperature sensor on fourth pre-	vious occasion				
	Heating	HI	Outdoor heat exchanger sensor on fourth prev	vious occasion				
		AUTO	Discharge pipe sensor on fourth previous occ	asion				
29	Cooling	AUTO	Indoor heat exchanger sensor 2 on fouth occa	sion				
		MED	Error code on fifth previous occasion					
	Cooling	HI	Room temperature sensor on fifth previous of	ccasion				
		AUTO	Indoor heat exchanger sensor 1 on fifth previ	ous occasion				
25		LO	Wireless remote control information on fifth	previous occasion				
	· ·	MED	Outdoor air temperature sensor on fifth previo	ous occasion				
	Heating	HI	Outdoor heat exchanger sensor on fifth previo	ous occasion				
		AUTO	Discharge pipe sensor on fifth previous occas	ion				
30	Cooling	AUTO	Indoor heat exchanger sensor 2 on fifth occas	ion				
21			Stop code on previous occasion					
22			Stop code on second previous occasion					
23			Stop code on third previous occasion					
24			Stop code on fourth previous occasion					
25	Centing		Stop code on fifth previous occasion					
26	Cooling	LO	Stop code on sixth previous occasion					
27			Stop code on seventh previous occasion					
28			Stop code on eighth previous occasion					
29			Stop code on ninth previous occasion					
30			Stop code on tenth previous occasion					
Judgment								Examiner

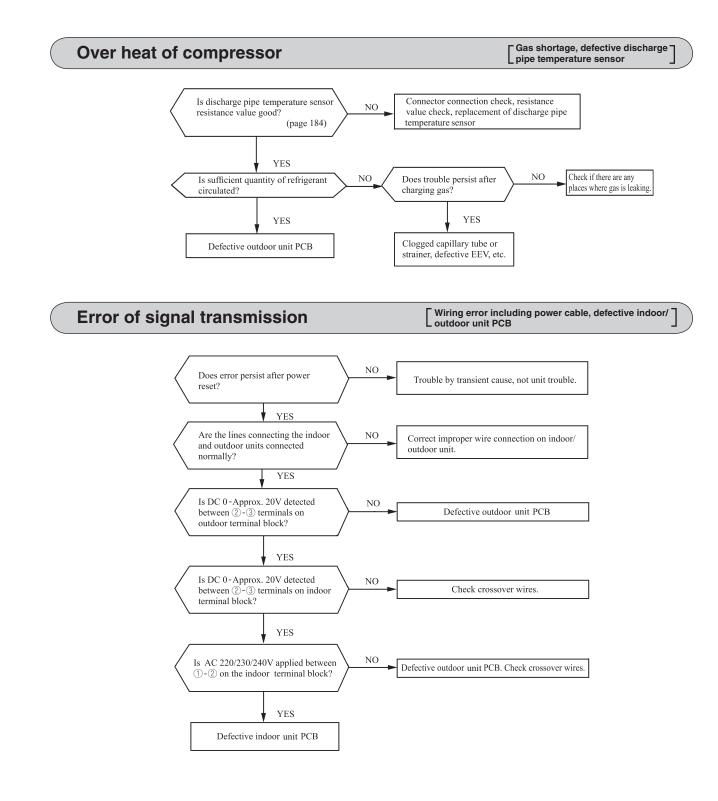
Note (1) In the case of indoor heat exchanger sensor 2, match from 26 to 30 the temperature setting of wireless remote control. (Refor to page 177.)

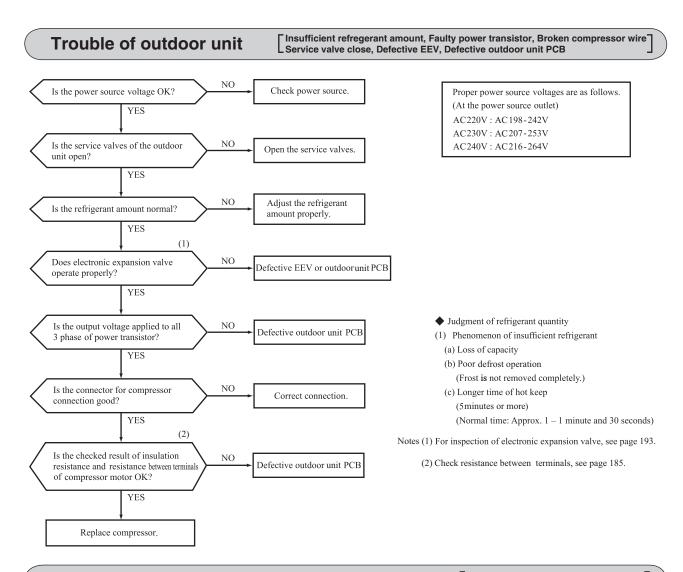
### (7) Inspection procedures corresponding to detail of trouble



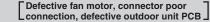


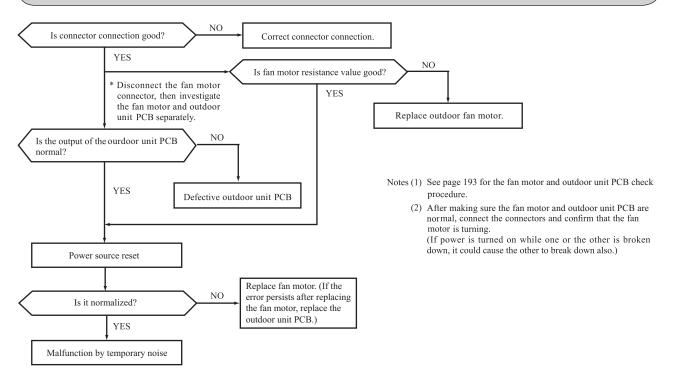




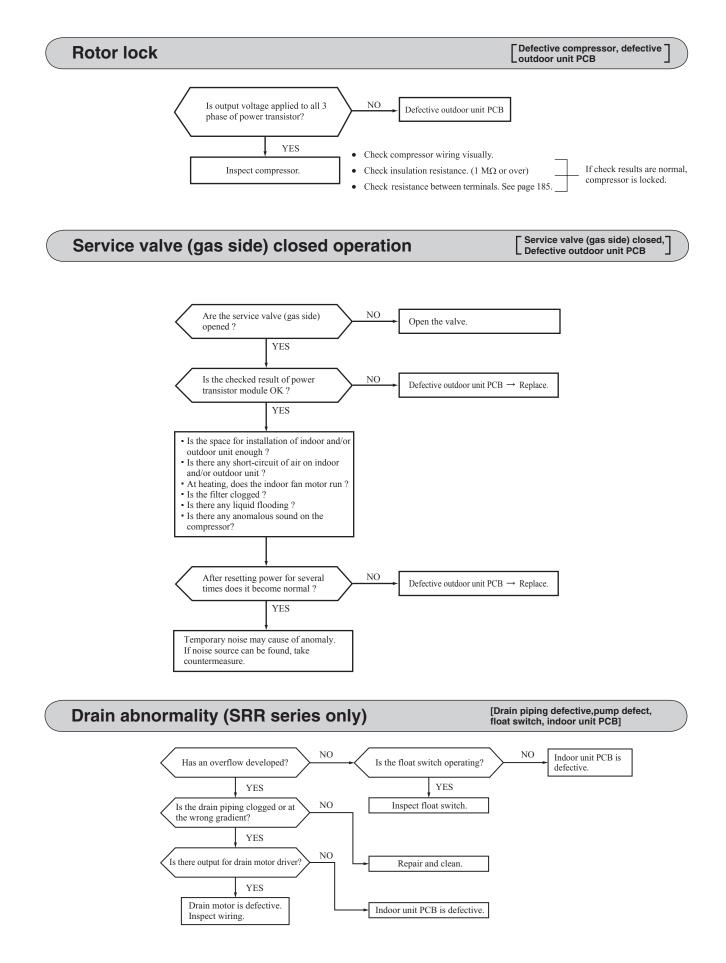


# Outdoor fan motor error





# '21 • SRK-T-299



Humidity sensor

Humidity sensor assembly

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element Connector (CNF)

1

0 2 c

#### (8) Phenomenon observed after short-circuit, wire breakage on sensor

## (a) Indoor unit

| Sensor                         | Operation | Phenomenon                                                       |                                                                              |  |  |  |  |
|--------------------------------|-----------|------------------------------------------------------------------|------------------------------------------------------------------------------|--|--|--|--|
| Sensor                         | mode      | Short-circuit                                                    | Disconnected wire                                                            |  |  |  |  |
| Room temperature               | Cooling   | Release of continuous compressor operation command.              | Continuous compressor operation command is not released.                     |  |  |  |  |
| sensor                         | Heating   | Continuous compressor operation command is not released.         | Release of continuous compressor operation command.                          |  |  |  |  |
| Heat exchanger<br>temperature  | Cooling   | Freezing cycle system protection trips and stops the compressor. | Continiuous compressor operation command is not released.<br>(Anti-frosting) |  |  |  |  |
| sensor                         | Heating   | High pressure control mode (Compressor stop command)             | Hot keep (Indoor fan stop)                                                   |  |  |  |  |
| Humidity sensor <sup>(1)</sup> | Cooling   | Refer to the table below.                                        | Refer to the table below.                                                    |  |  |  |  |
|                                | Heating   | Normal system operation is possible.                             |                                                                              |  |  |  |  |

Note (1) SRK35 only.

## Humidity sensor operation

|                   | Failure mode                     | Control input circuit resding | Air-conditioning system operation      |  |  |
|-------------------|----------------------------------|-------------------------------|----------------------------------------|--|--|
| cted              | 1 Disconnected wire              |                               |                                        |  |  |
| Disconnected      | ② Disconnected wire              | Humidity reading is 0%        | Anti-condensation control is not done. |  |  |
|                   | 12 Disconnected wire             |                               |                                        |  |  |
| Short-<br>circuit | 1) and 2) are shot-<br>circuited | Humidity reading is 100%      | Anti-condensation control keep doing.  |  |  |

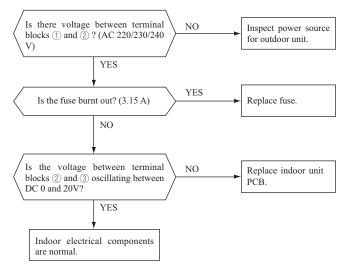
Remark: Do not perform a continuity check of the humidity sensor with a tester. If DC current is applied, it could damage the sensor.

### (b) Outdoor unit

| Concer                               | Operation | Pheno                                                                                                                              | omenon                                                               |
|--------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| Sensor                               | mode      | Short-circuit                                                                                                                      | Disconnected wire                                                    |
| Heat exchanger                       | Cooling   | Compressor stop.                                                                                                                   | Compressor stop.                                                     |
| temperature sensor                   | Heating   | Defrost operation is not performed.                                                                                                | Defrost operation is performed for 10 minutes at approx. 35 minutes. |
| Ourdoor air                          | Cooling   | The compressor cannot pick up its speed owing to the current safe so that the designed capacity is not achieved.                   | Compressor stop.                                                     |
| temperature sensor                   | Heating   | The compressor cannot pick up its speed owing to the heating<br>overload protection so that the designed capacity is not achieved. | Defrost operation is performed for 10 minutes at approx. 35 minutes. |
| Discharge pipe<br>temperature sensor | All modes | Compressor overload protection is disabled.<br>(Can be operated.)                                                                  | Compressor stop.                                                     |

## (9) Checking the indoor electrical equipment

## (a) Indoor unit PCB check procedure





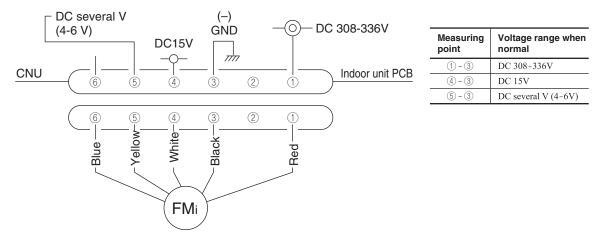
## (b) Indoor fan motor check procedure

This is a diagnostic procedure for determining if the indoor fan motor or the indoor unit PCB is broken down.

# 1) Indoor unit PCB output check

- a) Turn off the power.
- b) Remove the front panel, then disconnect the fan motor lead wire connector.
- c) Turn on the power. If the unit operates when the ON/OFF button is pressed, if trouble is detected after the voltages in the following figure are output for approximately 30 seconds, it means that the indoor unit PCB is normal and the fan motor is broken down.

If the voltages in the following figure are not output at connector pins No. (1), (4) and (5), the indoor unit PCB has failed and the fan motor is normal.



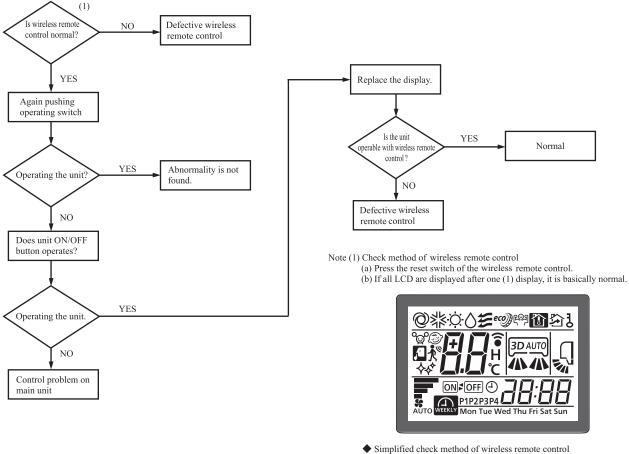
## 2) Fan motor resistance check

| Measuring point       | Resistance when normal  |
|-----------------------|-------------------------|
| ① - ③ (Red - Black)   | 20 M $\Omega$ or higher |
| ④ - ③ (White - Black) | 20 k $\Omega$ or higher |

Notes (1) Remove the fan motor and measure it without power connected to it. (2) If the measured value is below the value when the motor is normal, it means

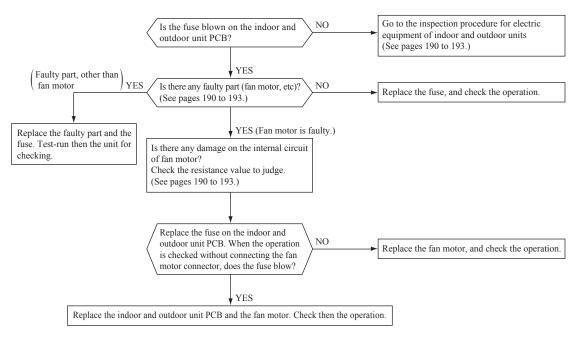
(2) If the measured value is below the value when the motor is normal, it means that the fan motor is faulty.

### (10) How to make sure of wireless remote control



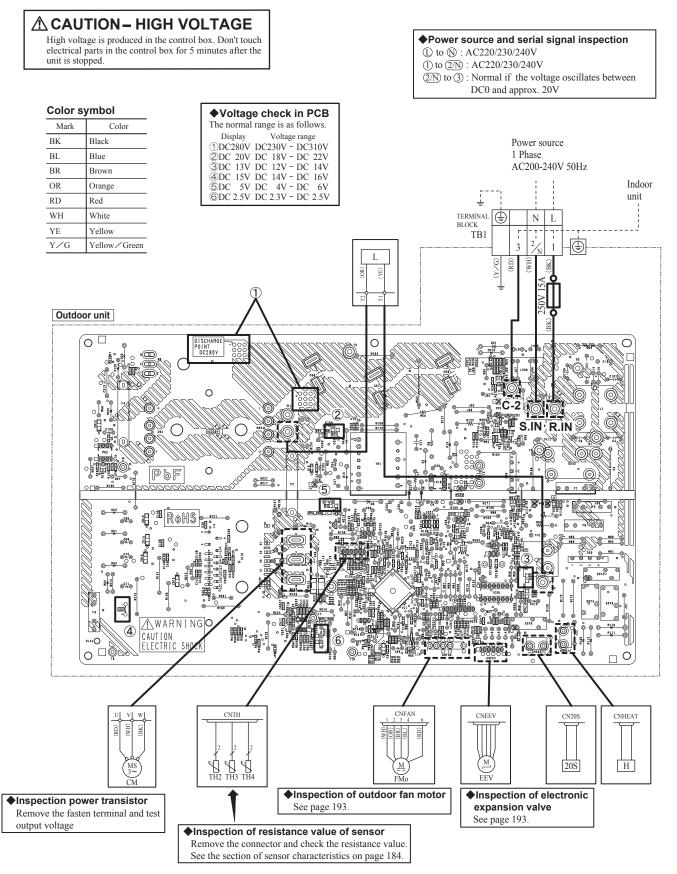
Simplified check method of wireless remote control It is normal if the signal transmission section of the wireless remote control emits a whitish light at each transmission on the monitor of digital camera.

(11) Inspection procedure for blown fuse on the indoor and outdoor unit PCB



# (12) Outdoor unit inspection points Models SRC20ZS-WA, 25ZS-WA2, 35ZS-WA2

# Check point of outdoor unit

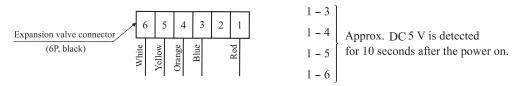


#### (a) Inspection of electronic expansion valve

Electronic expansion valve operates for approx. 10 seconds after the power on, in order to determine its aperture. Check the operating sound and voltage during the period of time. (Voltage cannot be checked during operation in which only the aperture change occurs.)

(i) If it is heard the sound of operating electronic expansion valve, it is almost normal.

(ii) If the operating sound is not heard, check the output voltage.



(iii) If voltage is detected, the outdoor unit PCB is normal.

(iv) If the expansion valve does not operate (no operating sound) while voltage is detected, the expansion valve is defective.

#### Inspection of electronic expansion valve as a separate unit

Measure the resistance between terminals with an analog tester.

|   | Measuring point | Resistance when normal |
|---|-----------------|------------------------|
|   | 1-6             |                        |
|   | 1-5             | $46\pm4\Omega$         |
| ĺ | 1-4             | (at 20°C)              |
| ĺ | 1-3             |                        |

#### (b) Outdoor fan motor check procedure

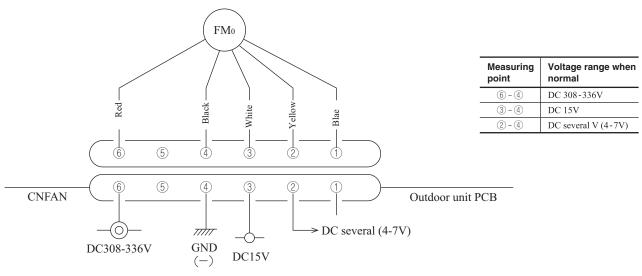
• When the outdoor unit fan motor error is detected, diagnose which of the outdoor unit fan motor or outdoor unit PCB is defective.

- Diagnose this only after confirming that the indoor unit is normal.
- (i) Outdoor unit PCB output check
  - 1) Turn off the power.
  - 2) Disconnect the outdoor fan motor connector CNFAN.

3) When the indoor unit is operated by inserting the power source plug and pressing (ON) the backup switch for more than 5 seconds, if the voltage of pin No. ② in the following figure is output for 30 seconds at 20 seconds after turning "ON" the backup switch, the outdoor unit PCB is normal but the fan motor is defective.

If the voltage is not detected, the outdoor unit PCB is defective but the fan motor is normal.

Note (1) The voltage is output 3 times repeatedly. If it is not detected, the indoor unit displays the error message.



(ii) Fan motor resistance check

| Measuring point       | Resistance when normal  |
|-----------------------|-------------------------|
| 6 - 4 (Red - Black)   | 20 M $\Omega$ or higher |
| ③ - ④ (White - Black) | 20 k $\Omega$ or higher |

Notes (1) Remove the fan motor and measure it without power connected to it. (2) If the measured value is below the value when the motor is normal, it means

(2) If the measured value is below the value when the motor is normal, it means that the fan motor is faulty.

# 11.2 FDTC series

# 11.2.1 Diagnosing of microcomputer circuit

# (1) Selfdiagnosis function

# (a) Check Indicator Table

Whether a failure exists or not on the indoor unit and outdoor unit can be know by the contents of remote control error code, indoor unit green LED (power pilot lamp and microcomputer normality pilot lamp) or red LED (check pilot lamp).

# (i) Indoor unit

| Remote control               |                  | Indoor unit control PCB |                   | Location of                                      |                                                                                                                                                                                    |                                                 | Reference |  |
|------------------------------|------------------|-------------------------|-------------------|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-----------|--|
| Error code                   | Red LED          | Red LED                 | Green<br>LED (1)  | trouble                                          | Description of trouble                                                                                                                                                             | Repair method                                   | page      |  |
|                              |                  | Stays OFF               | Keeps<br>flashing | _                                                | Normal operation                                                                                                                                                                   | _                                               | —         |  |
|                              |                  | Stays OFF               | Stays OFF         | Indoor unit power<br>source                      | Power OFF, broken wire/blown fuse, broken transformer wire                                                                                                                         | Repair                                          | 214       |  |
| No-indication                | Stays OFF        | *                       | Keeps             | Remote control<br>wires                          | <ul> <li>Poor connection, breakage of remote control wire * For wire breaking at power ON, the<br/>LED is OFF.</li> </ul>                                                          | Repair                                          |           |  |
|                              |                  | 3-time<br>flash         | flashing          | Remote control                                   | Defective remote control PCB                                                                                                                                                       | Replacement of<br>remote control                | 215       |  |
|                              | T 🖲 or<br>CT I/U | Stays OFF               | Keeps<br>flashing | Indoor-outdoor<br>units connection<br>wire       | Poor connection, breakage of indoor-outdoor units connection wire                                                                                                                  | Repair                                          | 216-220   |  |
|                              |                  |                         |                   | Remote control                                   | Improper setting of master and slave by remote control                                                                                                                             |                                                 |           |  |
|                              |                  |                         | *                 | Remote control<br>wires (Noise)                  | Poor connection of remote control signal wire (White)     * For wire breaking at power ON, the LED is OFF     Intrusion of noise in remote control wire                            | Repair                                          |           |  |
| Εl                           |                  | Stays OFF               | Keeps<br>flashing | Remote control<br>indoor unit control<br>PCB     | *• Defective remote control or indoor unit control PCB (defective communication circuit)?                                                                                          | Replacement of<br>remote control or<br>PCB      | 222       |  |
|                              | ]                | 2-time<br>flash         | Keeps<br>flashing | Indoor-outdoor<br>units connection<br>wire       | Poor connection of wire between indoor-outdoor units during operation<br>(disconnection, loose connection)     Anomalous communication between indoor-outdoor units by noise, etc. | Repair                                          |           |  |
|                              |                  | 2-time                  | Keeps             | (Noise)                                          | CPU-runaway on outdoor unit control PCB                                                                                                                                            | Power reset or<br>Repair                        |           |  |
| E5                           |                  | flash                   | flashing          | Outdoor unit control<br>PCB                      | *• Occurrence of defective outdoor unit control PCB on the way of power source (defective<br>communication circuit)?                                                               | Replacement of<br>PCB                           | 223       |  |
|                              |                  | 2-time                  | Keeps             | Outdoor unit control<br>PCB                      | • Defective outdoor unit control PCB on the way of power source                                                                                                                    |                                                 |           |  |
|                              |                  | flash                   | flashing          | Fuse                                             | • Blown fuse                                                                                                                                                                       | Replacement                                     |           |  |
| E6                           |                  | 1-time                  | Keeps             | Indoor heat<br>exchanger tempera-<br>ture sensor | Defective indoor heat exchanger temperature sensor (defective element, broken<br>wire, short-circuit)     Poor contact of temperature sensor connector                             | Replacement, repair<br>of temperature<br>sensor | 224       |  |
|                              |                  | flash                   | flashing          | Indoor unit control                              | Adoor unit control PCB (Defective temperature sensor input cir-<br>PCB cuit)?                                                                                                      | Replacement of<br>PCB                           |           |  |
| _ ¬                          |                  | 1-time                  | Vaana             | Indoor return air<br>temperature sensor          | Defective indoor return air temperature sensor (defective element, broken wire,<br>short-circuit)                                                                                  | Replacement, repair<br>of temperature           |           |  |
| E 1                          |                  | flash                   | Keeps<br>flashing | Indoor unit control                              | Poor contact of temperature sensor connector     *• Defective indoor unit control PCB (Defective temperature sensor input cir-                                                     | sensor<br>Replacement of                        | 225       |  |
|                              | Keeps            |                         |                   | PCB<br>Installation or oper-<br>ating condition  | cuit)? • Heating over-load (Anomalously high indoor heat exchanger temperature)                                                                                                    | PCB<br>Repair                                   |           |  |
| <i>E8</i>                    | flashing         | 1-time<br>flash         | Keeps<br>flashing | Indoor heat<br>exchanger tempera-<br>ture sensor | Defective indoor heat exchanger temperature sensor (short-circuit)                                                                                                                 | Replacement of<br>temperature sensor            | 226       |  |
|                              |                  |                         |                   | Indoor unit control<br>PCB                       | *• Defective indoor unit control PCB (Defective temperature sensor input circuit)?                                                                                                 | Replacement of<br>PCB                           |           |  |
|                              |                  |                         |                   | Drain trouble                                    | Defective drain pump (DM), broken drain pump wire, disconnected connector                                                                                                          | Replacement, repair<br>of DM                    |           |  |
|                              |                  | 1-time                  | Keeps             | Float switch                                     | Anomalous float switch operation (malfunction)                                                                                                                                     | Repair                                          | 007       |  |
| E9                           |                  | flash                   | flashing          | Indoor unit control<br>PCB                       | *• Defective indoor unit control PCB (Defective float switch input circuit)<br>*• Defective indoor unit control PCB (Defective DM drive output circuit)?                           | Replacement of<br>PCB                           | 227       |  |
|                              |                  |                         |                   | Option                                           | Defective option parts (At option anomalous input setting)                                                                                                                         | Repair                                          |           |  |
| E ID                         | 2                | Stays OFF               | Keeps<br>flashing | Number of con-<br>nected indoor units            | When multi-unit control by remote control is performed, the number of units is over                                                                                                | Repair                                          | 228       |  |
| E 13                         | 1                | Keeps<br>flashing       | Keeps<br>flashing | Address<br>setting error                         | Address setting error of indoor units                                                                                                                                              | Repair                                          | 229       |  |
|                              |                  | 1(2)-time               | Keeps             | Fan motor                                        | Defective fan motor                                                                                                                                                                | Replacement, repair                             |           |  |
| E 16<br>E 15<br>E 20<br>E 26 | 1                | flash                   | flashing          | Indoor unit power<br>PCB                         | Defective indoor unit power PCB                                                                                                                                                    | Replacement                                     | 230       |  |
| <u>E 15</u>                  | 1                | 1-time<br>flash         | Keeps<br>flashing | Indoor unit control<br>PCB                       | Improper operation mode setting                                                                                                                                                    | Repair                                          | 231       |  |
| FZN                          | ,                | 1(2)-time<br>flash      | Keeps<br>flashing | Fan motor<br>Indoor unit power                   | Indoor fan motor rotation speed anomaly                                                                                                                                            | Replacement, repair                             | 232       |  |
|                              | 1                |                         | Keeps             | PCB<br>Remote control                            | Defective indoor unit power PCB                                                                                                                                                    | Replacement                                     |           |  |
| <u> </u>                     |                  | Stays OFF               | flashing          | temperature sensor                               | Broken wire of remote control temperature sensor                                                                                                                                   | Repair                                          | 233       |  |

Notes (1) Normal indicator lamp (Indoor unit: Green) extinguishes (or lights continuously) only when CPU is anomalous. It keeps flashing in any trouble other than anomalous CPU.

(2) \* mark in the description of trouble means that, in ordinary diagnosis, it cannot identify the cause definitely, and, if the trouble is repaired by replacing the part, it is judged consequently that the replaced part was defective.

# (ii) Outdoor unit

| Remote control  |                   | Indoor unit control PCB |                         |                                                          |                                                                                               |                                                 | Reference |  |
|-----------------|-------------------|-------------------------|-------------------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-----------|--|
| Error code      | Red LED           | Red LED                 | Green<br>LED            | Location of trouble                                      | Description of trouble                                                                        | Repair method                                   | page      |  |
|                 |                   |                         |                         | Installation, operation status                           | Higher outdoor heat exchanger temperature                                                     | Repair                                          |           |  |
| E35             | E35               |                         | s OFF Keeps<br>flashing | Outdoor heat exchanger<br>temperature sensor             | Defective outdoor heat exchanger temperature sensor                                           | Replacement, repair<br>of temperature<br>sensor | 234       |  |
|                 |                   |                         |                         | Outdoor unit control PCB                                 | *• Defective outdoor unit control PCB (Defective temperature sensor input circuit)?           | Replacement of<br>PCB                           |           |  |
|                 |                   |                         |                         | Installation, operation status                           | Higher discharge temperature                                                                  | Repair                                          |           |  |
| E 36            |                   | Stays OFF               | Keeps<br>flashing       | Discharge pipe temperature sensor                        | Defective discharge pipe temperature sensor                                                   | Replacement, repair<br>of temperature<br>sensor | 235       |  |
|                 |                   |                         |                         | Outdoor unit control PCB                                 | *• Defective outdoor unit control PCB (Defective temperature sensor input circuit)?           | Replacement of<br>PCB                           |           |  |
| E37             |                   | Stays OFF               | Keeps<br>flashing       | Outdoor heat exchanger<br>temperature sensor             | Defective outdoor heat exchanger temperature sensor, broken wire or poor connector connection | Replacement, repair<br>of temperature<br>sensor | 236       |  |
|                 |                   |                         | nasning                 | Outdoor unit control PCB                                 | *• Defective outdoor unit control PCB (Defective temperature sensor input circuit)?           | Replacement of<br>PCB                           |           |  |
| E 38            |                   | Stays OFF               | Keeps<br>flashing       | Outdoor air temperature<br>sensor                        | Defective outdoor air temperature sensor, broken wire or poor connector connection            | Replacement, repair<br>of temperature<br>sensor | 237       |  |
|                 |                   |                         | nasning                 | Outdoor unit control PCB                                 | *• Defective outdoor unit control PCB (Defective temperature sensor input circuit)?           | Replacement of<br>PCB                           |           |  |
| E 3 9           | Keeps<br>flashing | Stays OFF               | tays OFF Keeps          | Discharge pipe temperature sensor                        | • Defective discharge pipe temperature sensor, broken wire or poor connector connection       | Replacement, repair<br>of temperature<br>sensor | 238       |  |
|                 | masining          | flashing                |                         | Outdoor unit control PCB                                 | *• Defective outdoor unit control PCB (Defective temperature sensor input circuit)?           | Replacement of<br>PCB                           |           |  |
| E48             |                   | Stays OFF               | Keeps<br>flashing       | Installation, operation status                           | Service valve (gas side) closing operation                                                    | Replacement                                     | 239       |  |
| ЕЧ2             |                   | Stays OFF               | Keeps                   | Outdoor unit control PCB,<br>compressor                  | Current cut (Anomalous compressor over-current)                                               | Replacement of<br>PCB                           | 240•241   |  |
|                 |                   |                         | flashing                | Installation, operation status                           | Service valve closing operation                                                               | Repair                                          |           |  |
| ЕЧЛ             |                   | Stays OFF               | Keeps<br>flashing       | Outdoor unit control PCB                                 | Defective active filter                                                                       | Repair<br>PCB replacement                       | 242       |  |
| ЕЧВ             |                   | Stays OFF               | Keeps                   | Fan motor                                                | Defective fan motor                                                                           | Replacement                                     | 243       |  |
|                 |                   | 5шуз 011                | flashing                | Outdoor unit control PCB                                 | Defective outdoor unit control PCB                                                            | Replacement                                     | 245       |  |
| E5 /            |                   | Stays OFF               | Keeps<br>flashing       | Power transistor error<br>(outdoor unit control PCB)     | Power transistor error                                                                        | Replacement of<br>PCB                           | 244       |  |
| - c - n         |                   |                         | Keeps                   | Operation status                                         | Shortage in refrigerant quantity                                                              | Repair                                          |           |  |
| E57             |                   | Stays OFF               | tays OFF flashing       | Installation status                                      | Service valve closing operation                                                               | Service valve<br>opening check                  | 245       |  |
| E 58            |                   | Stays OFF               | Keeps<br>flashing       | Overload operation     Overcharge     Compressor locking | • Current safe stop                                                                           | Replacement                                     | 246       |  |
| E59             |                   | Stays OFF               | Keeps<br>flashing       | Compressor, outdoor control<br>PCB                       | Anomalous compressor startup                                                                  | Replacement                                     | 247       |  |
| E60             |                   | Stays OFF               | Keeps<br>flashing       | Compressor                                               | Anomalous compressor rotor lock                                                               | Replacement                                     | 248       |  |
| ⊕WAIT<br>INSPEC |                   | Stays OFF               | Keep<br>flashing        | Indoor-outdoor<br>connection wire                        | Poor connection, breakage of indoor-outdoor unit connection wire                              | Repair                                          | _         |  |

Note (1) \* mark in the description of trouble means that, in ordinary diagnosis, it cannot identify the cause definitely, and, if the trouble is repaired by replacing the part, it is judged consequently that the replaced part was defective.

### (iii) Option control in-use

|            |                   | Indoor unit control PCB |                   | Description of trouble                                                                                    | Repair method  |
|------------|-------------------|-------------------------|-------------------|-----------------------------------------------------------------------------------------------------------|----------------|
| Error code | Red LED           | Red LED                 | Green LED         |                                                                                                           | Repair metriou |
| E75        | Keeps<br>flashing | Stays OFF               | Keeps<br>flashing | Communication error (Defective communication circuit on the main unit of SC-SL2NA-E or SC-SL4-AE/BE) etc. | Replacement    |

# (iv) Display sequence of error codes or inspection indicator lamps

# Occurrence of one kind of error

Displays are shown respectively according to errors.

# Occurrence of plural kinds of error

| Section           | Category of display                                                                              |
|-------------------|--------------------------------------------------------------------------------------------------|
| Error code on     | • Displays the error of higher priority (When plural errors are persisting)                      |
| remote control    |                                                                                                  |
| Red LED on indoor | E 1×ES>·····*E 10×E32>·····E60                                                                   |
| control PCB       | • Displays the present errors. (When a new error has occurred after the former error was reset.) |

# Error detecting timing

| Section | Error description                                    | Error code   | Error detecting timing                                                                                                                                                                                                                             |
|---------|------------------------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | Drain trouble (Float switch activated)               | 69           | Whenever float switch is activated after 30 second had past since power ON.                                                                                                                                                                        |
|         | Communication error at initial operation             | "''BWAIT'B'' | No communication between indoor and outdoor units is established at initial operation.                                                                                                                                                             |
|         | Remote control communication circuit error           | E I          | Communication between indoor unit and remote control<br>is interrupted for more than 2 minutes continuously after<br>initial communication was established.                                                                                        |
| Indoor  | Communication error during operation                 | ES           | Communication between indoor and outdoor units is<br>interrupted for more than 2 minutes continuously after<br>initial communication was established.                                                                                              |
| muoor   | Excessive number of connected indoor units by        |              | Whenever excessively connected indoor units is detected after power ON.                                                                                                                                                                            |
|         | Return air temperature sensor anomaly                | 67           | -50°C or lower is detected for 5 seconds continuously within 60 minutes after initial detection of this anomalous temperature.                                                                                                                     |
|         | Indoor heat exchanger temperature sensor anomaly     | 66           | -50°C or lower is detected for 5 seconds continuously within 60 minutes after initial detection of this anomalous temperature. Or 70°C or higher is detected for 5 seconds continuously.                                                           |
|         | Outdoor air temperature sensor anomaly               | E 38         | -55°C or lower is detected for 5 seconds continuously<br>3 times within 40 minutes after initial detection of this<br>anomalous temperature.<br>Or -55°C or lower is detected for 5 seconds continuously<br>within 20 seconds after compressor ON. |
| Outdoor | Outdoor heat exchanger<br>temperature sensor anomaly | 637          | -55°C or lower is detected for 5 seconds continuously<br>3 times within 40 minutes after initial detection of this<br>anomalous temperature.<br>Or -55°C or lower is detected for 5 seconds continuously<br>within 20 seconds after compressor ON. |
|         | Discharge pipe temperature sensor anomaly            | 639          | -25°C or lower is detected for 5 seconds continuously 3 times within 40 minutes after initial detection of this anomalous temperature.                                                                                                             |

#### Error log and reset

| Error indicator                    | Memorized error log                   | Reset                                                            |  |
|------------------------------------|---------------------------------------|------------------------------------------------------------------|--|
| Remote control display             | • Higher priority error is memorized. | • Stop the unit by pressing the ON/OFF switch of remote control. |  |
| Red LED on indoor unit control PCB | • Not memorized.                      | • If the unit has recovered from anomaly, it can be operated.    |  |

# Resetting the error log

## 1) RC-EX3A

• Resetting the memorized error log in the remote control

You touch the buttons in the order of "Menu"  $\rightarrow$  "Service setting"  $\rightarrow$  "Service & Maintenance"  $\rightarrow$  "Service password"  $\rightarrow$  "Error display"  $\rightarrow$  "Error history" on the TOP screen of remote control.And if you touch "Delete"  $\rightarrow$  "Yes" button, all error log and anomaly data memorized in the remote control are deleted.

· Resetting the memorized error log in the indoor unit

You touch the buttons in the order of "Menu"  $\rightarrow$  "Service setting"  $\rightarrow$  "Service & Maintenance"  $\rightarrow$  "Service password"  $\rightarrow$  "Error display"  $\rightarrow$  "Error anomaly data" on the TOP screen of remote control.

The remote control transmits error log erase command to the indoor unit when "Yes" button is pressed on the erase anomaly data screen.

Receiving the command, the indoor unit erase the log and answer the status of no error.

## 2) RC-E5

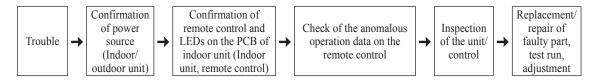
- Resetting the memorized error log in the remote control Holding down "CHECK" button, press "TIMER" button to reset the error log memorized in the remote control.
- · Resetting the memorized error log in the indoor unit

The remote control transmits error log erase command to the indoor unit when "VENTI" button is pressed while holding down "CHECK" button.

Receiving the command, the indoor unit erase the log and answer the status of no error.

## (2) Troubleshooting procedure

When any trouble has occurred, inspect as follows. Details of respective inspection method will be described on later pages.



#### (3) Troubleshooting at the indoor unit

### (a) FDTC series

With the troubleshooting, find out any defective part by checking the voltage (AC, DC), resistance, etc. at respective connectors at around the indoor unit PCB, according to the inspection display or operation status of unit (the compressor does not run, fan does not run, the 4-way valve does not switch, etc.), and replace or repair in the unit of following part.

## (i) Replacement part related to indoor unit PCB's

Control PCB, power source PCB, temperature sensor (return air, indoor heat exchanger), remote control switch, limit switch, transformer and fuse

Note (1) With regard to parts of high voltage circuits and refrigeration cycle, judge it according to ordinary inspection methods.

#### (ii) Instruction of how to replace indoor unit control PCB

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SAFETY PRECAUTIONS                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <ul> <li>Read the "SAFETY PRECAUTI</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ONS" carefully first of all and then strictly follow it during the replacement in order to protect yourself.      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ned below are distinguished into two levels, WARNING and CAUTION.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ns to protect your health and safety so strictly follow them by any means.                                        |
| WARNING Wrong ins                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | stallation would cause serious consequences such as injuries or death.                                            |
| CAUTION Wrong ins                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | stallation might cause serious consequences depending on circumstances.                                           |
| After completing the replacement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | nt, do commissioning to confirm there are no anomaly.                                                             |
| $\triangle$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | WARNING                                                                                                           |
| <ul> <li>Replacement should be perform</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ed by the specialist.                                                                                             |
| If you replace the PCB by yours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | elf, it may lead to serious trouble such as electric shock or fire.                                               |
| <ul> <li>Replace the PCB correctly according to the PCB co</li></ul> | rding to these instructions.                                                                                      |
| Improper replacement may cau                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | se electric shock or fire.                                                                                        |
| <ul> <li>Shut off the power before electr</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ical wiring work.                                                                                                 |
| Replacement during the applyin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | g the current would cause the electric shock, unit failure or improper running.                                   |
| It would cause the damage of c                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | onnected equipment such as fan motor,etc.                                                                         |
| <ul> <li>Fasten the wiring to the terminal</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | I securely, and hold the cable securely so as not to apply unexpected stress on the terminal.                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | I result in abnormal heat generation or fire.                                                                     |
| Check the connection of wiring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | to PCB correctly before turning on the power, after replacement.                                                  |
| Defectiveness of replacement n                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | nay cause electric shock or fire.                                                                                 |
| $\triangle$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CAUTION                                                                                                           |
| <ul> <li>In connecting connector onto th</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | e PCB, connect not to deform the PCB. It may cause breakage or malfunction.                                       |
| <ul> <li>Insert connecter securely, and I</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | look stopper. It may cause fire or improper running.                                                              |
| <ul> <li>Bundle the cables together so a</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | s not to be pinched or be tensioned. It may cause malfunction or electric shock for disconnection or deformation. |

## 1) Model FDTC series

PSC012D050

Replace and set up the PCB according to this instruction.

i) Set to an appropriate address and function using switch on PCB.

Select the same setting with the removed PCB.

| Item       | Switch         | Content of control                              |                                           |  |
|------------|----------------|-------------------------------------------------|-------------------------------------------|--|
| Address    | SW2            | Plural indoor units control by 1 remote control |                                           |  |
| Teatrup    | Test run SW7-1 |                                                 | Normal                                    |  |
| TestTull   |                |                                                 | Operation check/drain pump motor test run |  |
| O:ON —:OFF |                |                                                 |                                           |  |

| C | ON: | -:0 |
|---|-----|-----|
| U | NO: | -:0 |
|   |     |     |

ii) Set to an appropriate capacity using the model selector switch(SW6).

Select the same capacity with the PCB removed from the unit.

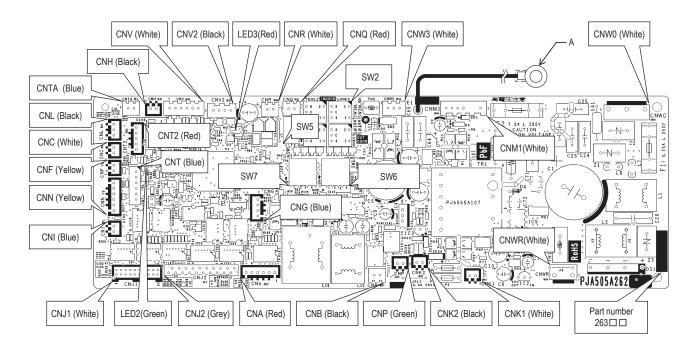
|       |    | •  |    |    |                           |
|-------|----|----|----|----|---------------------------|
| SW6   | -1 | -2 | -3 | -4 | SW6                       |
| 25VH1 | 0  | -  | -  | -  |                           |
| 35VH1 | -  | 0  | -  | -  |                           |
|       |    |    |    |    |                           |
|       |    |    |    |    | 1 2 3 4                   |
|       |    |    |    |    | Example setting for 25VH1 |

iii) Replace the PCB

① Unscrew terminal (Arrow A) of the "E1" wiring (yellow/green) that is connected to PCB.

- (2) Replace the PCB only after all the wirings connected to the connector are removed.
- ③ Fix the board such that it will not pinch any of the wires.
- ④ Switch setting must be same setting as that of the removed PCB.
- (5) Reconnect the wirings to the PCB. Wiring connector color should match with the color of connector of the PCB.
- 6 Screw back the terminal (Arrow A) of the "E1" wiring, that was removed in 1.

# iv) Control PCB Parts mounting are different by the kind of PCB.



# DIP switch setting list

| Switch | Descriptio                             | D                       | efault setting | Remark       |  |
|--------|----------------------------------------|-------------------------|----------------|--------------|--|
| SW2    | Address No. setting at plural indoor u | 0                       |                | 0-F          |  |
| SW6-1  |                                        |                         |                |              |  |
| SW6-2  | Model selection                        | As per model            |                | See table 1. |  |
| SW6-3  | Woder selection                        |                         |                |              |  |
| SW6-4  |                                        |                         |                |              |  |
| SW7-1  | Test run, drain pump motor             | Normal*/Test run        | OFF            | Normal       |  |
| SW7-2  | Reserved                               | OFF                     |                | Keep OFF     |  |
| SW7-3  | Reserved                               | OFF                     |                | Keep OFF     |  |
| SW7-4  | Reserved                               | OFF                     |                | Keep OFF     |  |
| JSL1   | Superlink terminal spare               | Normal*/switch to spare | With           |              |  |

\* Default setting

Table 1: Indoor unit model selection with SW6-1–SW6-4

| Switch | 25VH1 | 35VH1 |
|--------|-------|-------|
| SW6-1  | ON    | OFF   |
| SW6-2  | OFF   | ON    |
| SW6-3  | OFF   | OFF   |
| SW6-4  | OFF   | OFF   |

### (4) Troubleshooting at the outdoor unit

When troubleshooting the outdoor unit, firstly assess the overview of malfunction and try to presume the cause and the faulty part by checking the error code dispalyed on the remote control and then proceed further inspection and remedy it. Self-diagnosis system by microcomputor on indoor unit PCB can assist to find the cause of malfunction smoothly by making a diagnosis of not only the anomaly of microcomputer, but also the anomaly in power source system, installation space, overload resulting from improper charging amount of refrigerant and etc.

Unless the power is reset, the error log is saved in memory.

After automatical recovering from malfunction, if any another error mode which has a higher priority than the previous error saved in memory occurs, it is overwritten in memory and is displayed.

### [Reset of power source]

Be sure to avoid electrical shock, when replacing or checking the outdoor unit control PCB, because some voltage is still retained in the electrolytic capacitor on the PCB even after shutting down the power source to the outdoor unit.

Be sure to start repairing work and reconfirming that voltage has been discharged sufficiently by measuring the voltage (DC) between both terminals of electrolytic capacitor (C58).

(Measurment of voltage may be disturbed by the moisture-proof coating. In such case, remove the coating and measure it by taking care of avoiding electrical shock.)

#### (a) Module of part to be replaced for outdoor unit control

Outdoor unit PCB, Temperature sensor (of outdoor heat exchanger, discharge pipe, outdoor air), Fuses (for power source and PCB) and Reactor.

#### (5) Check of anomalous operation data with the remote control

#### (a) In case of RC-EX3A remote control

- [Operating procedure]
- ① On the TOP screen, touch the buttons in the order of "Menu"  $\rightarrow$  "Service setting"  $\rightarrow$  "Service & Maintenance"  $\rightarrow$ "Service password"  $\rightarrow$  "Set"  $\rightarrow$  "Error display"  $\rightarrow$  "Error history".
- <sup>②</sup> When only one indoor unit is connected to the remote control, followings will be displayed.
  - 1) When there is any anomaly: "Loading. Wait a while" is displayed, followed by the operation data at the occurrence of anomaly. Contents of display
  - Error code
  - Number and data item
  - 2) When there is no anomaly: "No anomaly" is displayed, and this mode is terminated.
- ③ When two or more indoor units are connected to the remote control, followings will be displayed.
  - 1) When there is any anomaly: If the unit having anomaly is selected on the "Select IU" screen, "Loading. Wait a while" is displayed, followed by the operation data at the occurrence of anomaly.

Contents of display

- · Indoor unit No.
- Error code
- · Number and data item
- 2) When there is no anomaly: "No anomaly" is displayed, ant this mode is terminated.

Note (1) When the number of connected units cannot be shown in a page, select "Next".

④ If you press [RUN/STOP] button, the display returns to the TOP screen.

#### ◎ If you touch "Back" button on the way of setting, the display returns to the last precious screen.

Note (1) When two remote controls are used to control indoor units, the check of anomaly operation data can be made on the master remote control

only. (It cannot be operated from the slave remote control.)

Anomaly operation data (Corresponding data may not be provided depending on models. Such items will not be displayed.)

| Number |                 | Data Item                                              |
|--------|-----------------|--------------------------------------------------------|
| 01     | **              | (Operation Mode)                                       |
| 02     | SET TEMP`c      | (Set Temperature)                                      |
| 03     | RETURN AIRc     | (Return Air Temperature)                               |
| 04     | 🗐 SBNSOR රි     | (Remote Control Temperature Sensor)                    |
| 05     | thi-Ric         | (Indoor Heat Exchanger Temperature Sensor / U Bend)    |
| 06     | THI-R2c         | (Indoor Heat Exchanger Temperature Sensor /Capillary)  |
| 07     | THI-R3ზ         | (Indoor Heat Exchanger Temperature Sensor /Gas Header) |
| 08     | I/U FANSPEED    | (Indoor Unit Fan Speed)                                |
| 09     | DEMANDHz        | (Frequency Requirements)                               |
| 10     | ANSWERHz        | (Response Frequency)                                   |
| 11     | I/UEEVP         | (Pulse of Indoor Unit Expansion Value)                 |
| 12     | TOTAL I /U RUN  | _ H (Total Running Hours of The Indoor Unit)           |
| 13     | SUPPLY AIR°     | (Supply Air Temperature)                               |
| 21     | OUTDOOR°C       | (Outdoor Air Temperature)                              |
| 22     | THO-R1C         | (Outdoor Heat Exchanger Temperature Sensor)            |
| 23     | THO-R2ზ         | (Outdoor Heat Exchanger Temperature Sensor)            |
| 24     | COMPHz          | (Compressor Frequency)                                 |
| 25     | HPMPa           | (High Pressure)                                        |
| 26     | LPMPa           | (Low Pressure)                                         |
| 27     | Tdc             | (Discharge Pipe Temperature)                           |
| 28     | COMP BOTTOM රි  | (Comp Bottom Temperature)                              |
| 29     | CTAMP           | (Current)                                              |
| 30     | TARGET SHරු     | (Target Super Heat)                                    |
| 31     | SH°             | (Super Heat)                                           |
| 32     | TDSHC           | (Discharge Pipe Super Heat)                            |
| 33     | PROTECTION No   | (Protection State No. of The Compressor)               |
| 34     | 0/UFANSPEED     | (Outdoor Unit Fan Speed)                               |
| 35     | 63H1            | (63H1 On/Off)                                          |
| 36     | DEFROST         | (Defrost Control On/Off)                               |
| 37     | TOTAL COMP RUN_ | _ H (Total Running Hours of The Compressor)            |
| 38     | 0∕UÆV1P         | (Pulse of The Outdoor Unit Expansion Valve EEVC)       |
| 39     | 0/U             | (Pulse of The Outdoor Unit Expansion Valve EEVH)       |

| No.  | Contents of display                                |
|------|----------------------------------------------------|
| "0"  | Normal                                             |
| "1"  | Discharge pipe temperature protection control      |
| "2"  | Discharge pipe temperature anomaly                 |
| "3"  | Current safe control of inverter primary current   |
| "4"  | High pressure protection control                   |
| "5"  | High pressure anomaly                              |
| "6"  | Low pressure protection control                    |
| "7"  | Low pressure anomaly                               |
| "8"  | Anti-frost prevention control                      |
| "9"  | Current cut                                        |
| "10" | Power transistor protection control                |
| "11" | Power transistor anomaly (Overheat)                |
| "12" | Compression ratio control                          |
| "13" | Spare                                              |
| "14" | Dewing prevention control                          |
| "15" | Current safe control of inverter secondary current |
| "16" | Stop by compressor rotor lock                      |
| "17" | Stop by compressor startup failure                 |
| "18" | Active filter anomaly                              |

Number 33 details of compressor protection status

·Data are dispalyed until canceling the protection control · In case of multiple protections controlled, only the younger No. is displayed.

Note(2) Common item. ① In heating mode.

During protection control by the command signal for reducing compressor frequency from indoor unit, No. "4" is displayed. ② In cooling and dehumidifying mode.

During protection control by the command signal for reducing compressor frequency from indoor unit, No. "8" is displayed.

| (b) | In case of RC-E5 remote control                                    | Number   |                        | Data Item                                              |
|-----|--------------------------------------------------------------------|----------|------------------------|--------------------------------------------------------|
|     | Operation data can be checked with remote control unit operation.  | 01       | 紫                      | (Operation Mode)                                       |
|     | ① Press the CHECK button.                                          | 02       | SET TEMP°c             | (Set Temperature)                                      |
|     | The display change " OPER DATA ▼"                                  | 03       | RETURN AIR ిం          | (Return Air Temperature)                               |
|     |                                                                    | 04       | 🖻 SENSOR ී             | (Remote Control Temperature Sensor)                    |
|     | ② Press the ○ (SET) button while " OPER DATA ▼ " is                | 05       | THI-R1°                | (Indoor Heat Exchanger Temperature Sensor / U Bend)    |
|     | displayed.                                                         | 06       | THI-R2c                | (Indoor Heat Exchanger Temperature Sensor /Capillary)  |
|     | 3 When only one indoor unit is connected to remote control,        | 07       | THI-R3c                | (Indoor Heat Exchanger Temperature Sensor /Gas Header) |
|     | "DATA LOADING" is displayed (blinking indication during data       | 08       | I/U FANSPEED           | (Indoor Unit Fan Speed)                                |
|     | loading).                                                          | 09       | DEMANDHz               | (Frequency Requirements)                               |
|     | Next, operation data of the indoor unit will be displayed. Skip to | 10       | ANSWERHz               | (Response Frequency)                                   |
|     |                                                                    | 11       | I/UEEVP                | (Pulse of Indoor Unit Expansion Value)                 |
|     | step ⑦.                                                            | 12       | TOTAL I/U RUN          | H (Total Running Hours of The Indoor Unit)             |
|     | ④ When plural indoor units is connected, the smallest address      | 21       | OUTDOORC               | (Outdoor Air Temperature)                              |
|     | number of indoor unit among all connected indoor unit is           | 22       | THO-R1C                | (Outdoor Heat Exchanger Temperature Sensor)            |
|     | displayed.                                                         | 23       | THD-R2C                | (Outdoor Heat Exchanger Temperature Sensor)            |
|     | [Example]:                                                         | 24       | COMPHz                 | (Compressor Frequency)                                 |
|     |                                                                    | 25       | HPMPa                  | (High Pressure)                                        |
|     | "⊕ $\clubsuit$ SELECT I/U" (blinking 1 seconds) → "I/U000          | 26       | LPMPa                  | (Low Pressure)                                         |
|     | blinking.                                                          | 27       | Тdc<br>ромп поттом — « | (Discharge Pipe Temperature)                           |
|     | ⑤ Select the indoor unit number you would like to have data        | 28       | COMP BOTTOM`උ<br>CTAMP | (Comp Bottom Temperature)<br>(Current)                 |
|     | displayed with the $\checkmark$ $\checkmark$ button.               | 29<br>30 | TARGET SH°             | (Target Super Heat)                                    |
|     | © Determine the indoor unit number with the O (SET) button.        | 31       | SH2                    | (Super Heat)                                           |
|     | (The indoor unit number changes from blinking indication to        | 32       | TDSH&                  | (Discharge Pipe Super Heat)                            |
|     | continuous indication)                                             | 33       | PROTECTION No          | (Protection State No. of The Compressor)               |
|     |                                                                    | 34       | 0/UFANSPEED            | (Outdoor Unit Fan Speed)                               |
|     | "I/U000" (The address of selected indoor unit is blinking for      | 35       | 63H1                   | (63H1 On/Off)                                          |
|     | 2 seconds.)                                                        | 36       | DEFROST                | (Defrost Control On/Off)                               |
|     | $\downarrow$                                                       | 37       | TOTAL COMP RUN_        | H (Total Running Hours of The Compressor)              |
|     | "DATALDADING" (A blinking indication appears while data            | 38       | 0/U EEV 1P             | (Pulse of The Outdoor Unit Expansion Valve EEVC)       |
|     | loaded.) Next, the operation data of the indoor unit is indicated. | 39       | 0/UEEV2P               | (Pulse of The Outdoor Unit Expansion Valve EEVH)       |

Upon operation of the button, the current operation data is displayed in order from data number 01. The items displayed are in the above table.

\*Depending on models, the items that do not have corresponding data are not displayed.

To display the data of a different indoor unit, press the AIR CON No.
 button, which allows you to go back to the indoor unit selection screen.

Pressing the ON/OFF button will stop displaying data.

Pressing the *(RESET)* button during remote control unit operation will undo your last operation and allow you to go back to the previous screen.

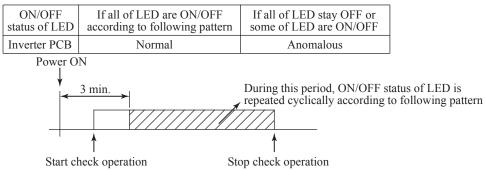
 $\odot$  If two (2) remote controls are connected to one (1) inside unit, only the master control is available for trial operation and confirmation of operation data. (The slave remote control is not available.)

#### Number 33 details of compressor protection status

| unin | ter be details of compressor protectio             | i status                                                                                                                                                               |
|------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No.  | Contents of display                                | Note(1) Operation data display on the remote control.                                                                                                                  |
| "0"  | Normal                                             | <ul> <li>Data are dispalyed until canceling the protection control.</li> <li>In case of multiple protections controlled, only the younger No. is displayed.</li> </ul> |
| "1"  | Discharge pipe temperature protection control      | Note(2) Common item.                                                                                                                                                   |
| "2"  | Discharge pipe temperature anomaly                 | ① In heating mode.                                                                                                                                                     |
| "3"  | Current safe control of inverter primary current   | During protection control by the command signal for reducing compressor                                                                                                |
| "4"  | High pressure protection control                   | frequency from indoor unit, No. "4" is displayed.<br>② In cooling and dehumidifying mode.                                                                              |
| "5"  | High pressure anomaly                              | During protection control by the command signal for reducing compressor                                                                                                |
| "6"  | Low pressure protection control                    | frequency from indoor unit, No. "8" is displayed.                                                                                                                      |
| "7"  | Low pressure anomaly                               |                                                                                                                                                                        |
| "8"  | Anti-frost prevention control                      |                                                                                                                                                                        |
| "9"  | Current cut                                        |                                                                                                                                                                        |
| "10" | Power transistor protection control                |                                                                                                                                                                        |
| "11" | Power transistor anomaly (Overheat)                |                                                                                                                                                                        |
| "12" | Compression ratio control                          |                                                                                                                                                                        |
| "13" | Spare                                              |                                                                                                                                                                        |
| "14" | Dewing prevention control                          |                                                                                                                                                                        |
| "15" | Current safe control of inverter secondary current |                                                                                                                                                                        |
| "16" | Stop by compressor rotor lock                      |                                                                                                                                                                        |
| "17" | Stop by compressor startup failure                 |                                                                                                                                                                        |
| "18" | Active filter anomaly                              |                                                                                                                                                                        |

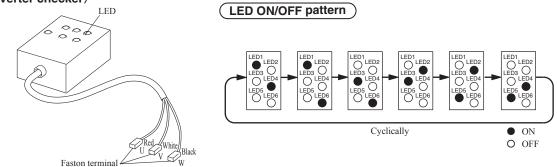
## (6) Inverter checker for diagnosis of inverter output

- Checking method
  - 1) Setup procedure of checker
  - a) Power OFF (Turn off the breaker).
  - b) Remove the terminal cover of compressor and disconnect the wires (U, V, W) from compressor.
  - c) Connect the wires U (Red), V (White) and W (Black) of the checker to the terminal of disconnected wires (U, V, W) from compressor respectively.
  - 2) Operation for judgment
  - a) Power ON and start check operation on cooling or heating mode.
  - b) Check ON/OFF status of 6 LED's on the checker.
  - c) Judge the PCB by ON/OFF status of 6 LED's on the checker.



d) Stop check operation within about 2 minutes after starting check operation.

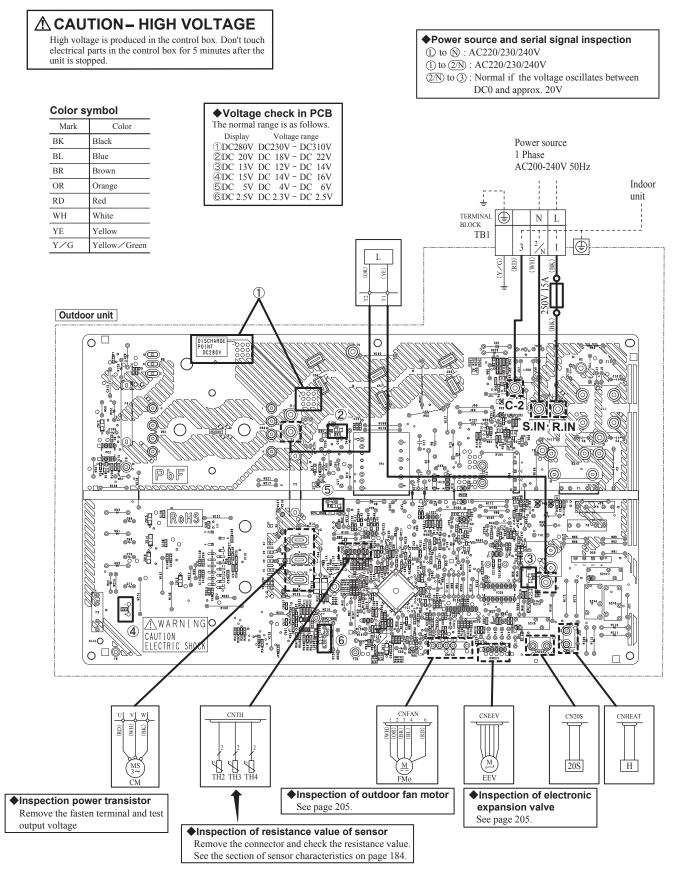
## $\langle$ Inverter checker $\rangle$



Connect to the terminal of the wires which are disconnected from compressor.

# (7) Outdoor unit inspection points Models SRC25ZS-WA2, 35ZS-WA2

# Check point of outdoor unit



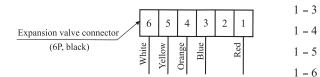
#### (a) Inspection of electronic expansion valve

Electronic expansion valve operates for approx. 10 seconds after the power on, in order to determine its aperture. Check the operating sound and voltage during the period of time. (Voltage cannot be checked during operation in which

only the aperture change occurs.)

(i) If it is heard the sound of operating electronic expansion valve, it is almost normal.

(ii) If the operating sound is not heard, check the output voltage.



Approx. DC5V is detected for 10 seconds after the power on.

(iii) If voltage is detected, the outdoor unit PCB is normal.

(iv) If the expansion valve does not operate (no operating sound) while voltage is detected, the expansion valve is defective.

#### • Inspection of electronic expansion valve as a separate unit

Measure the resistance between terminals with an analog tester.

| Measuring point | Resistance when normal |
|-----------------|------------------------|
| 1-6             |                        |
| 1-5             | $46\pm4\Omega$         |
| 1-4             | (at 20°C)              |
| 1-3             |                        |

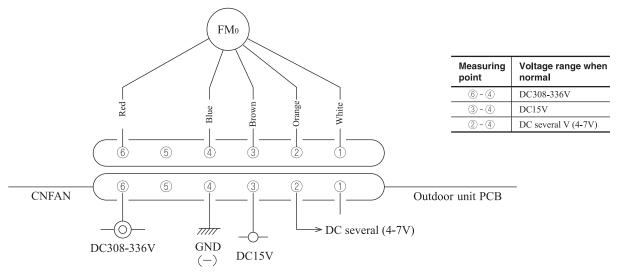
#### (b) Outdoor fan motor check procedure

- When the outdoor fan motor error is detected, diagnose which of the outdoor fan motor or outdoor unit PCB is defective.
- Diagnose this only after confirming that the indoor unit is normal.
- (i) Outdoor unit PCB output check
- 1) Turn off the power.
- 2) Disconnect the outdoor fan motor connector CNFAN.

3) When the indoor unit is operated by inserting the power source plug and pressing (ON) the backup switch for more than 5 seconds, if the voltage of pin No. ② in the following figure is output for 30 seconds at 20 seconds after turning "ON" the backup switch, the outdoor unit PCB is normal but the fan motor is defective.

If the voltage is not detected, the outdoor unit PCB is defective but the fan motor is normal.

Note (1) The voltage is output 3 times repeatedly. If it is not detected, the indoor unit displays the error message.



(ii) Fan motor resistance check

| Measuring point      | Resistance when normal  |
|----------------------|-------------------------|
| 6 - 4 (Red - Blue)   | 20 M $\Omega$ or higher |
| ③ - ④ (Brown - Blue) | 20 k $\Omega$ or higher |

Notes (1) Remove the fan motor and measure it without power connected to it.

(2) If the measured value is below the value when the motor is normal, it means that the fan motor is faulty.

# 11.2.2 Troubleshooting flow

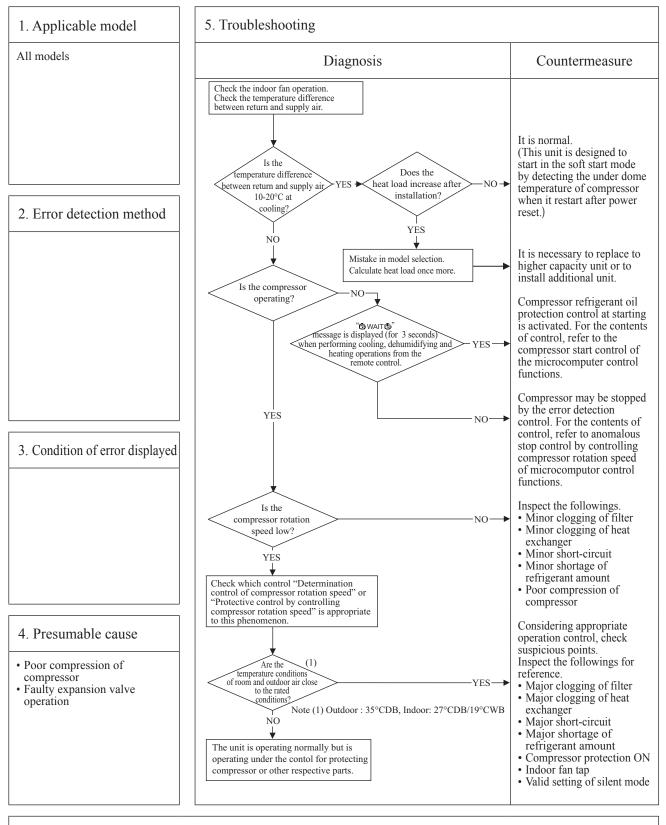
# (1) List of troubles

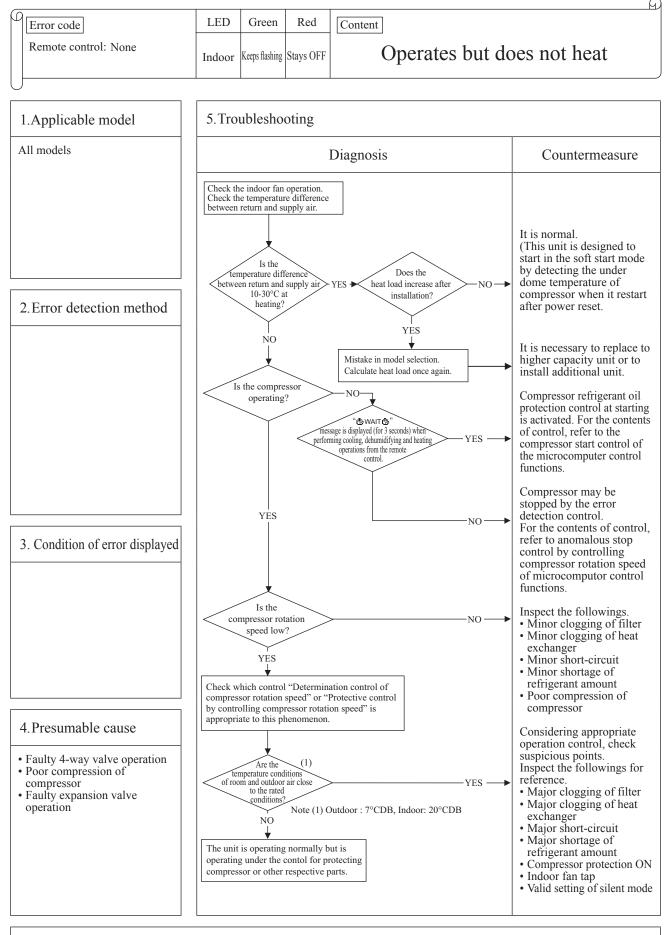
| Remote control display | Description of trouble                                                                                 | Reference pag |
|------------------------|--------------------------------------------------------------------------------------------------------|---------------|
| None                   | Operates but does not cool.                                                                            | 207           |
| None                   | Operates but does not heat.                                                                            | 208           |
| None                   | Earth leakage breaker activated                                                                        | 209           |
| None                   | Excessive noise/vibration (1/3)                                                                        | 210           |
| None                   | Excessive noise/vibration (2/3)                                                                        | 211           |
| None                   | Excessive noise/vibration (3/3)                                                                        | 212           |
| None                   | Louver motor failure                                                                                   | 213           |
| None                   | Power source system error (Power source to indoor unit control PCB)                                    | 214           |
| None                   | Power source system error (Power source to remote control)                                             | 215           |
| INSPECT I/U            | INSPECT I/U (When 1 or 2 remote controls are connected)                                                | 216           |
| INSPECT I/U            | INSPECT I/U (Connection of 3 units or more remote controls)                                            | 217           |
| மூwair மூ              | Communication error at initial operation                                                               | 218-220       |
| None                   | No display                                                                                             | 221           |
| E1                     | Remote control communication circuit error                                                             | 222           |
| E5                     | Communication error during operation                                                                   | 223           |
| E6                     | Indoor heat exchanger temperature sensor anomaly                                                       | 224           |
| E7                     | Return air temperature sensor anomaly                                                                  | 225           |
| E8                     | Heating overload operation                                                                             | 226           |
| E9                     | Drain trouble                                                                                          | 227           |
| E10                    | Excessive number of connected indoor units (more than 17 units) by controlling with one remote control | 228           |
| E11                    | Address setting error of indoor units                                                                  | 229           |
| E16                    | Indoor fan motor anomaly                                                                               | 230           |
| E19                    | Indoor unit operation check, drain pump motor check setting error                                      | 231           |
| E20                    | Indoor fan motor rotation speed anomaly                                                                | 232           |
| E28                    | Remote control temperature sensor anomaly                                                              | 233           |
| E35                    | Cooling overload operation                                                                             | 234           |
| E36                    | Discharge pipe temperature error                                                                       | 235           |
| E37                    | Outdoor heat exchanger temperature sensor anomaly                                                      | 236           |
| E38                    | Outdoor air temperature sensor anomaly                                                                 | 237           |
| E39                    | Discharge pipe temperature sensor anomaly                                                              | 238           |
| E40                    | Service valve (gas side) closing operation                                                             | 239           |
| E42                    | Current cut                                                                                            | 240•241       |
| E47                    | Active filter voltage error                                                                            | 242           |
| E48                    | Outdoor fan motor anomaly                                                                              | 243           |
| E51                    | Power transistor anomaly                                                                               | 244           |
| E57                    | Insufficient refrigerant amount or detection of service valve closure                                  | 245           |
| E58                    | Current safe stop                                                                                      | 246           |
| E59                    | Compressor startup failure                                                                             | 247           |
| E60                    | Compressor rotor lock error                                                                            | 248           |

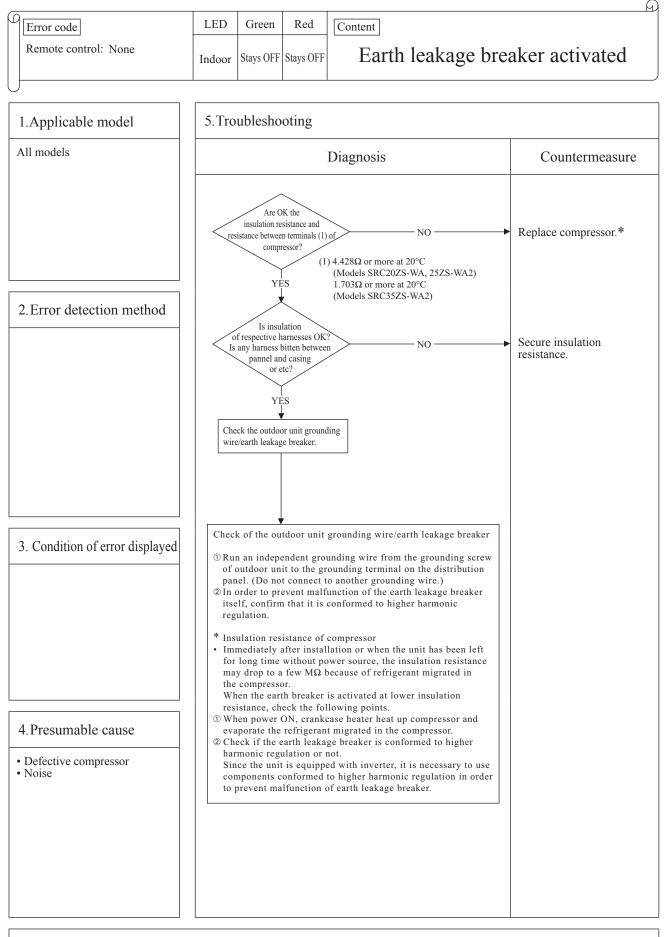
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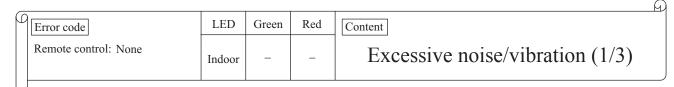
# (2) Troubleshooting

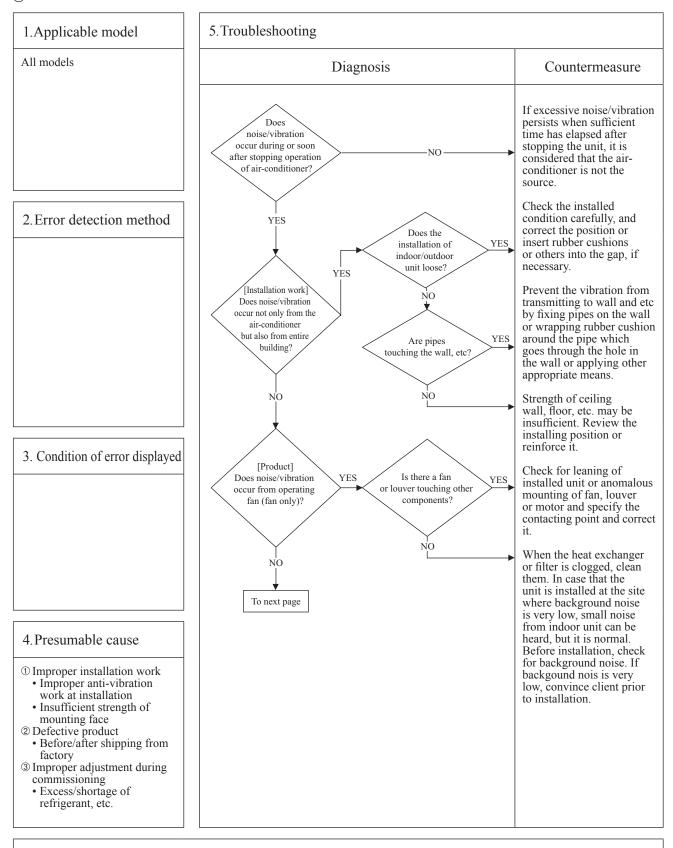
| Remote control: None         Indoor         Keeps flashing         Stays OFF         Operates but does not cool | β | Error code           | LED    | Green          | Red       | Content                    | 1 |
|-----------------------------------------------------------------------------------------------------------------|---|----------------------|--------|----------------|-----------|----------------------------|---|
|                                                                                                                 |   | Remote control: None | Indoor | Keeps flashing | Stays OFF | Operates but does not cool |   |



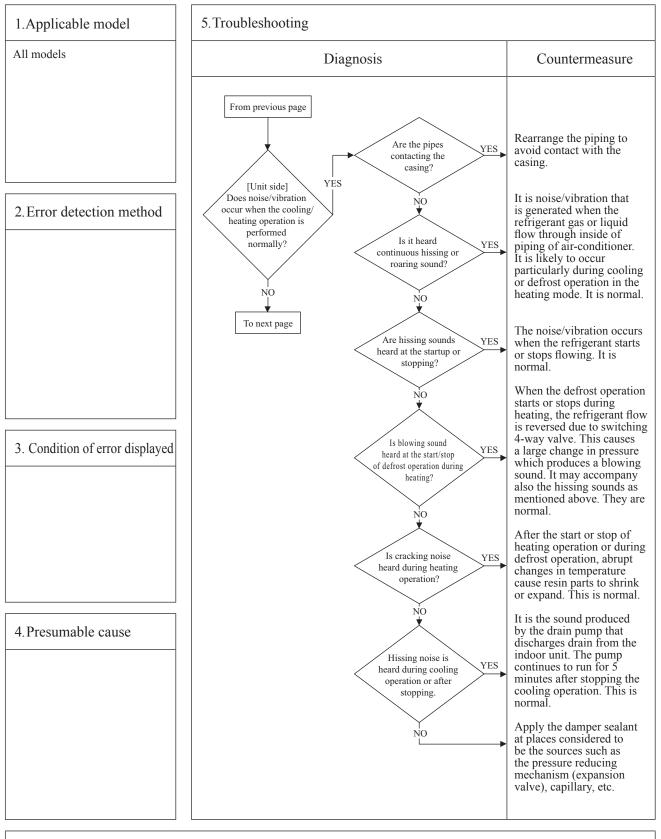




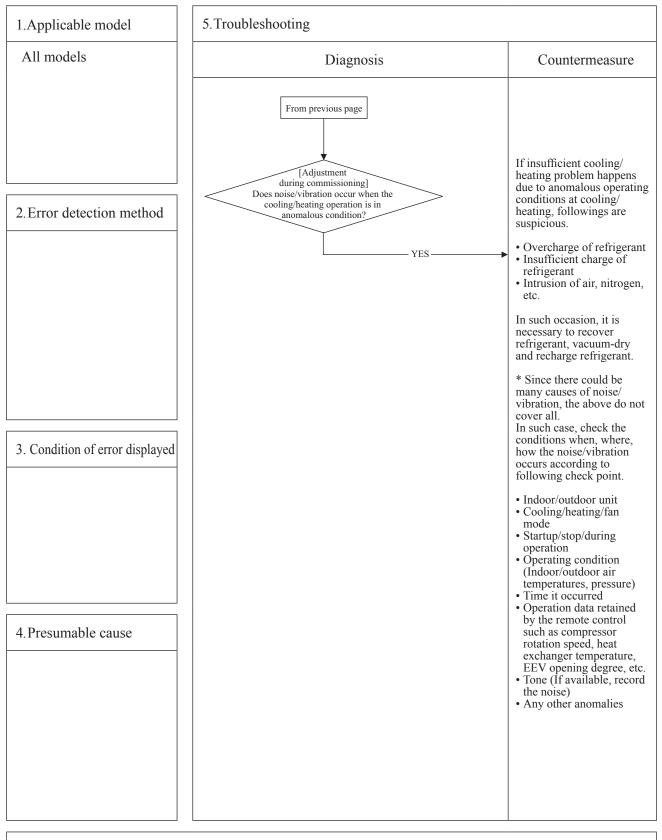




|   |                      |        |       |     |                                 | Ð |
|---|----------------------|--------|-------|-----|---------------------------------|---|
| ſ | Error code           | LED    | Green | Red | Content                         |   |
|   | Remote control: None | Indoor | -     | _   | Excessive noise/vibration (2/3) |   |
| L | J                    |        |       |     |                                 |   |

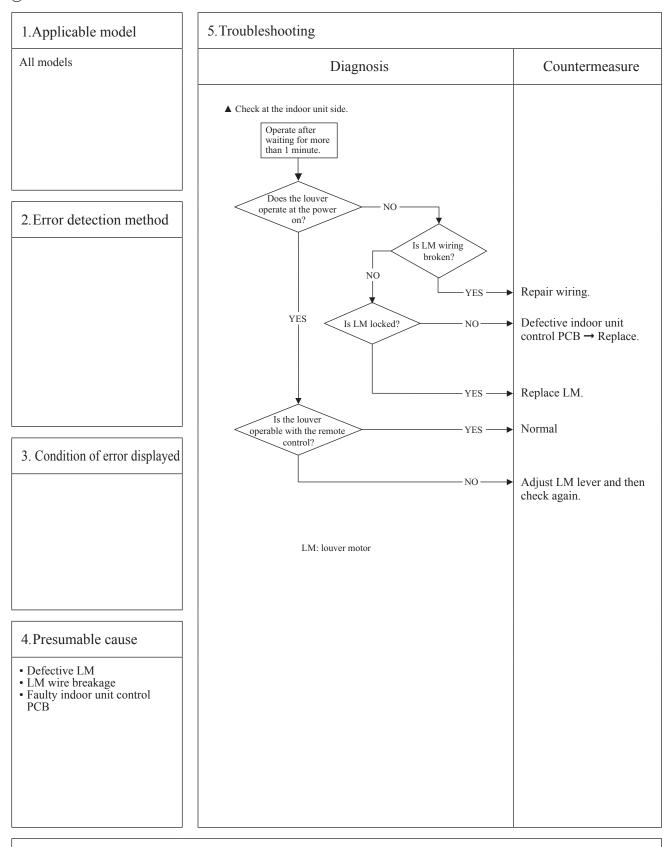


| _ |                      |        |       |     |                                 | A |
|---|----------------------|--------|-------|-----|---------------------------------|---|
| β | Error code           | LED    | Green | Red | Content                         |   |
|   | Remote control: None | Indoor | _     | _   | Excessive noise/vibration (3/3) |   |
| L | )                    |        |       |     |                                 |   |



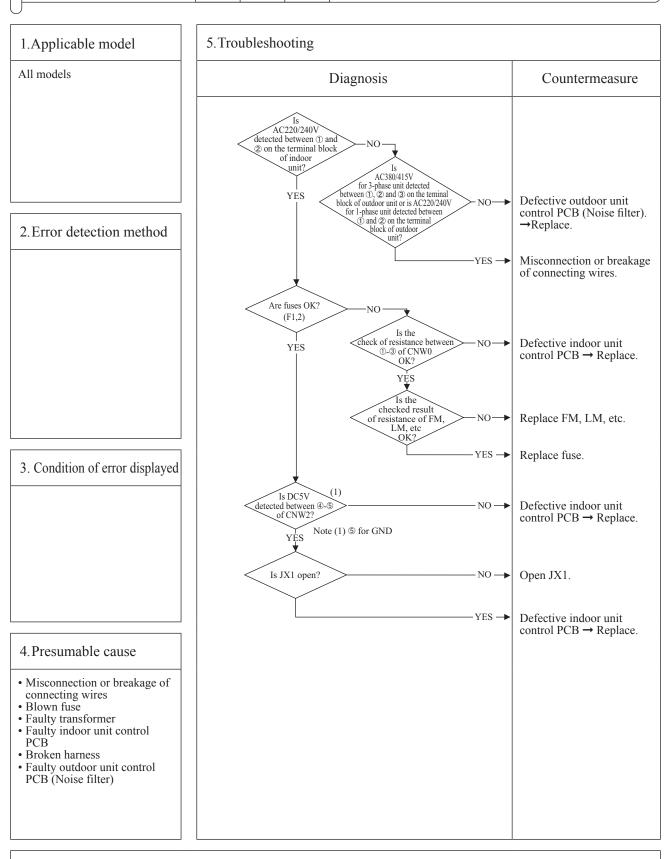
# '21 • SRK-T-299

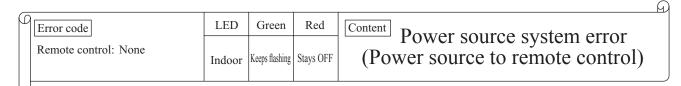


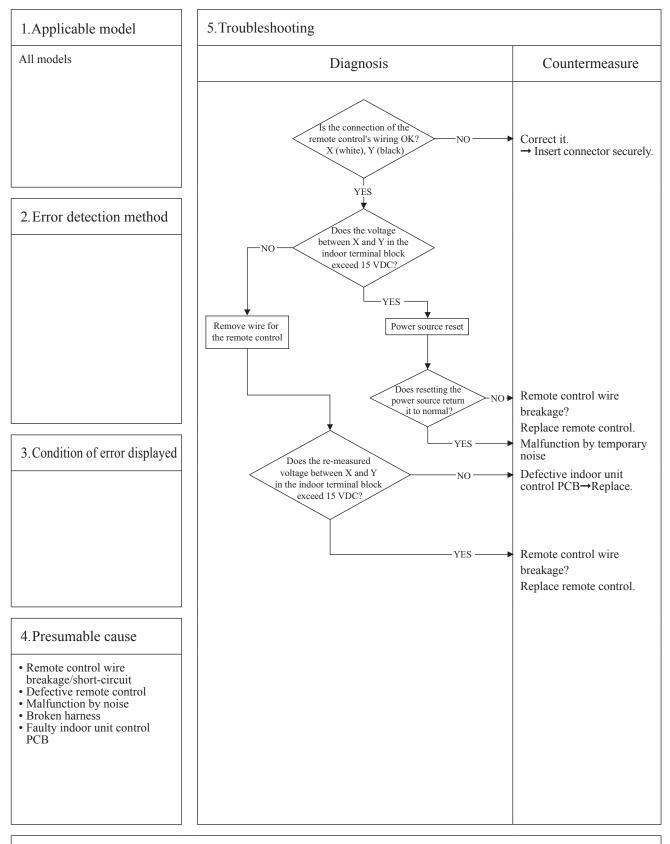


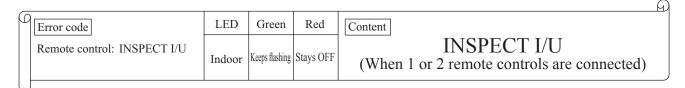
G

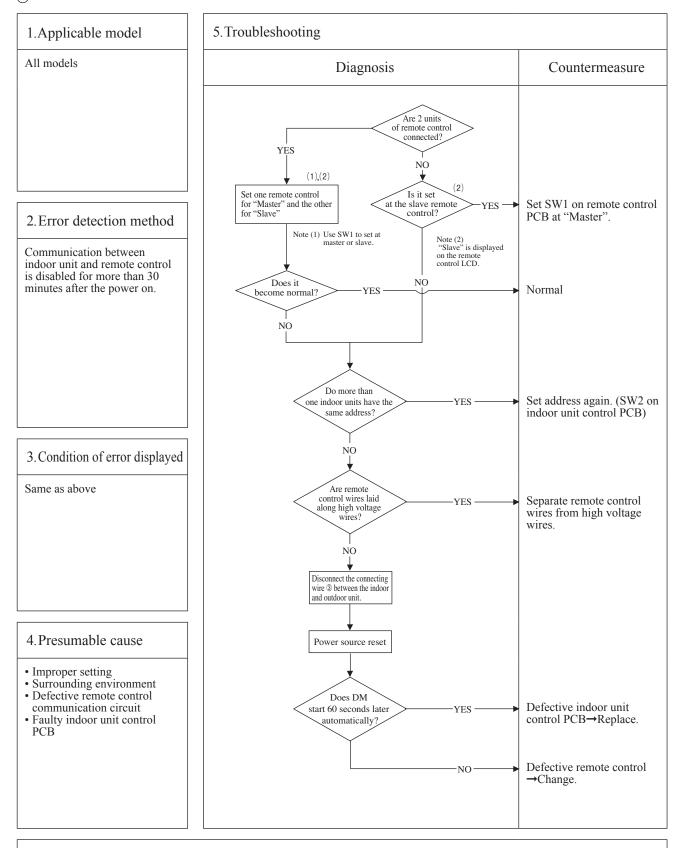
| ſ | Error code<br>Remote control: None | LED    | Green     | Red | Content Power source system error         |
|---|------------------------------------|--------|-----------|-----|-------------------------------------------|
|   |                                    | Indoor | Stays OFF |     | (Power source to indoor unit control PCB) |



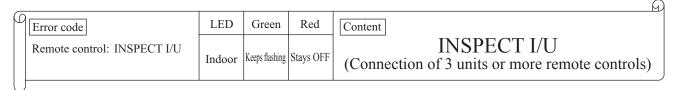


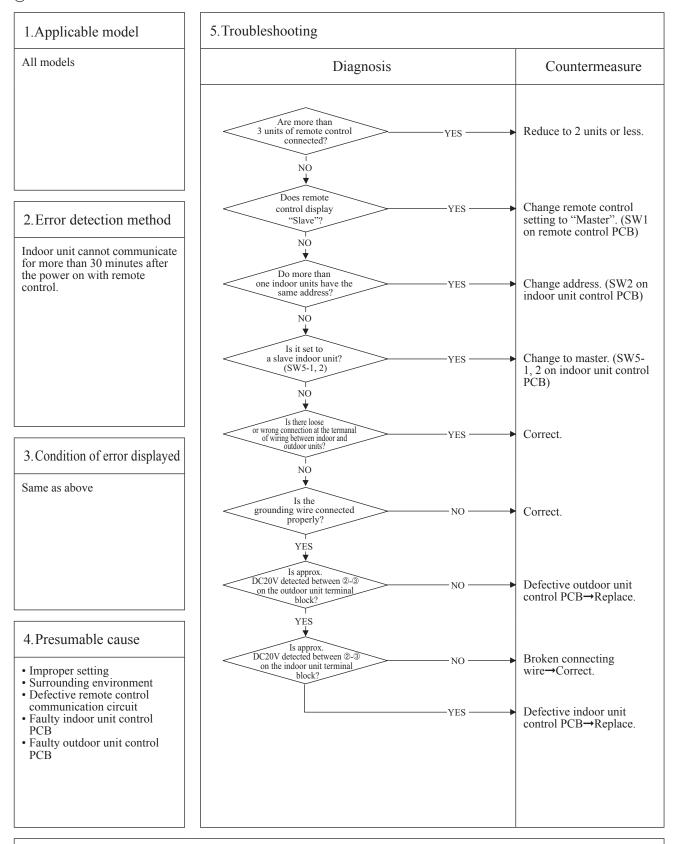




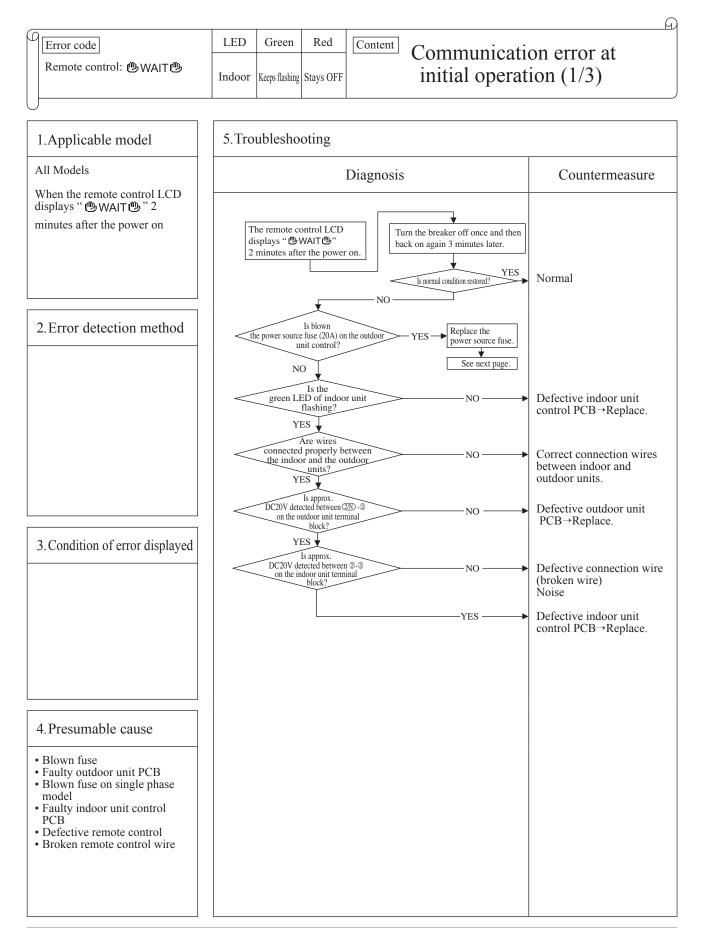


Note: If any error is detected 30 minutes after displaying ""WAIT"" on the remote control, the display changes to "INSPECT I/U".

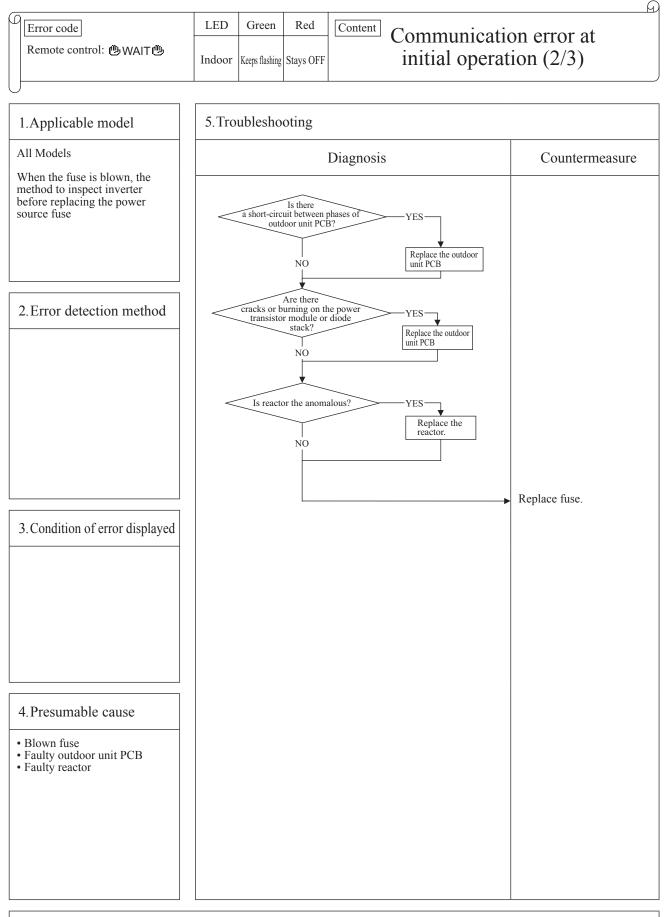


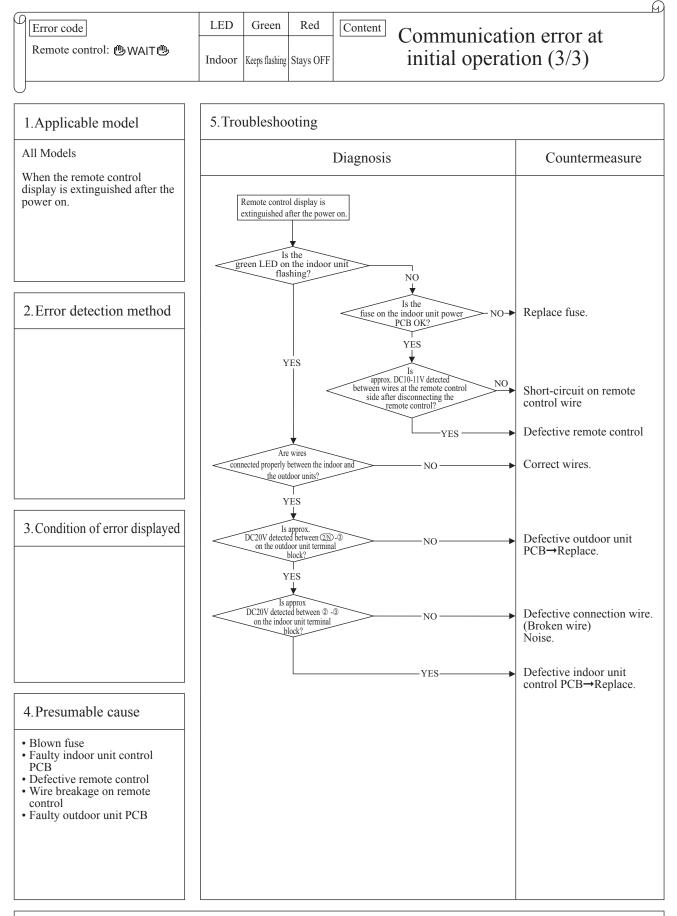


Note: If any error is detected 30 minutes after displaying ""WAIT"" on the remote control, the display changes to "INSPECT I/U".

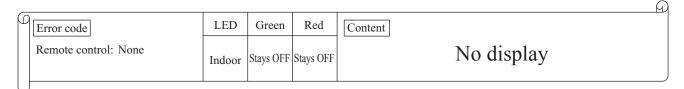


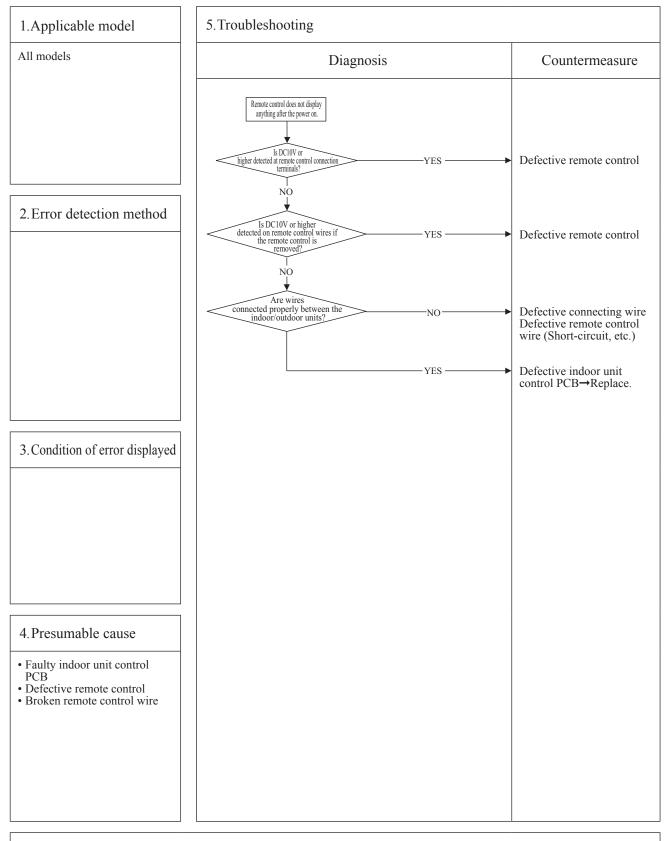
Note: If any anomaly is detected during communication, the error code E5 is displayed. (Outdoor unit red LED flashes twice.) Inspection procedure is same as above. (Excluding matters related to connection) When the power source is reset after the occurrence of E5, the LED will display "@WAIT@" if the anomaly continues. If the breaker ON/OFF is repeated in a short period of time (within 1 minute), "@WAIT@" may be displayed. In such occasion, turn the breaker off and wait for 3 minutes.

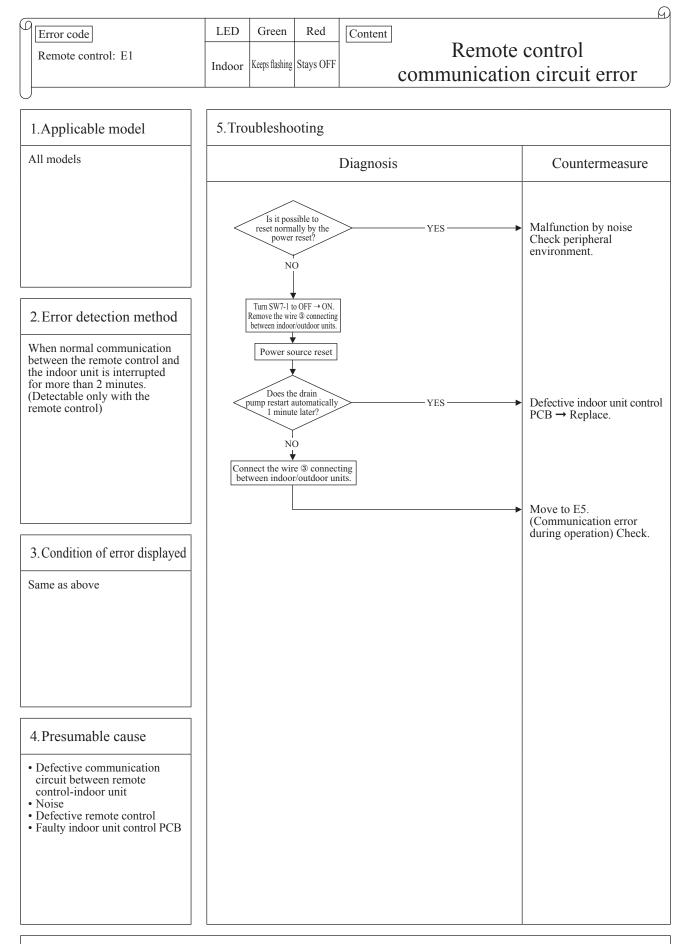




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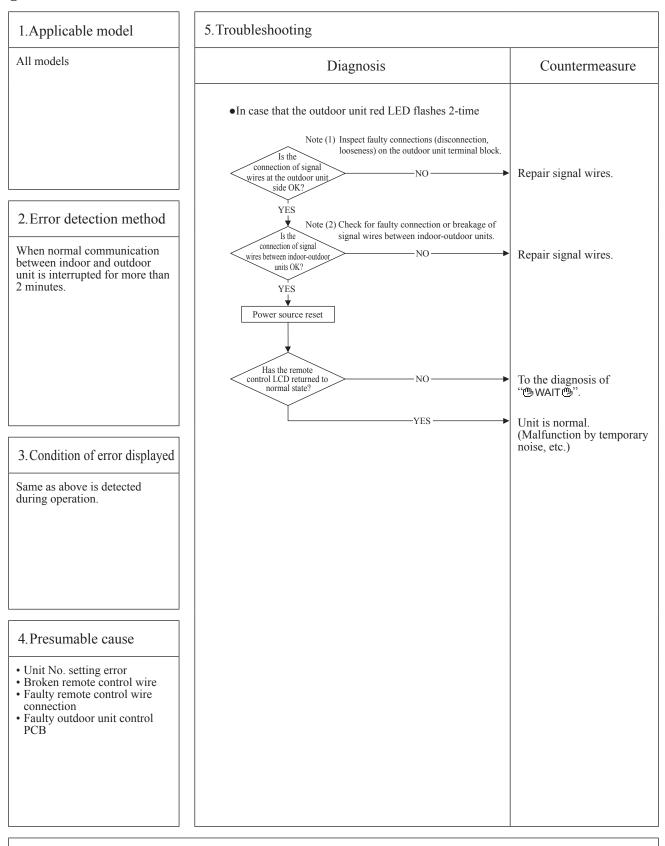


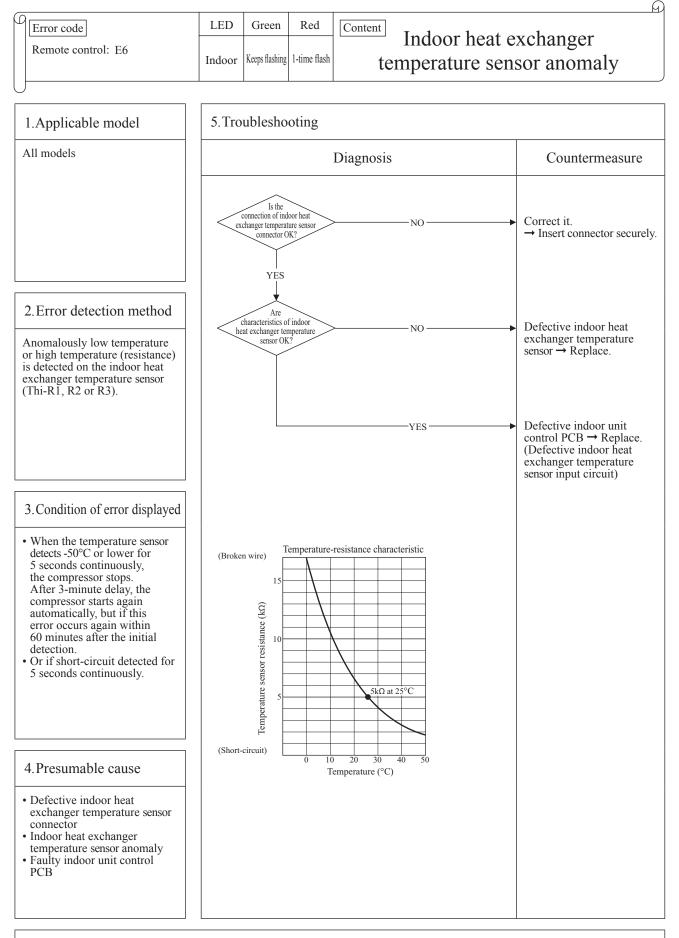


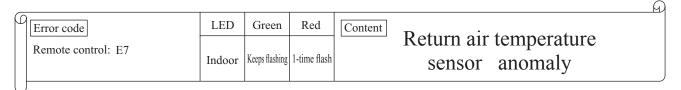


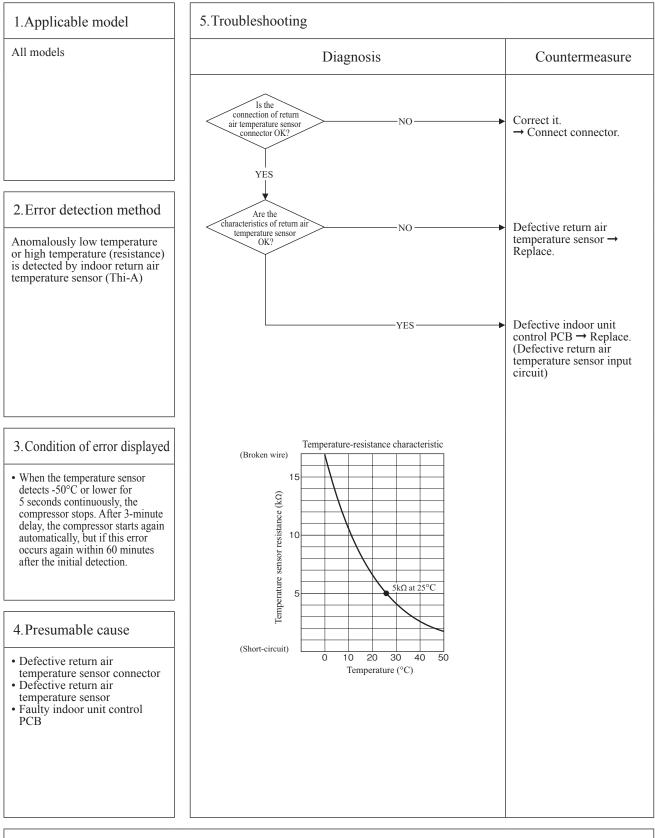
Note: If the indoor unit cannot communicate normally with the remote control for 180 seconds, the indoor unit PCB starts to reset automatically.

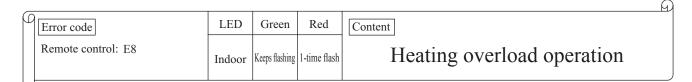
| _ |                    |        |                |              | <u> </u>                             |
|---|--------------------|--------|----------------|--------------|--------------------------------------|
| β | Error code         | LED    | Green          | Red          | Content                              |
|   | Remote control: E5 | Indoor | Keeps flashing | 2-time flash | Communication error during operation |
| U | )                  |        |                |              |                                      |

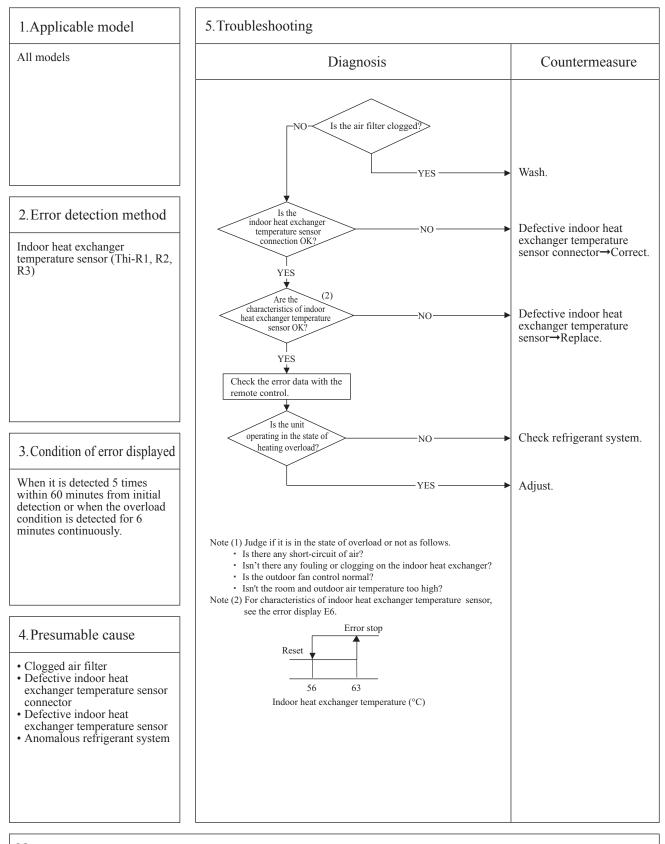




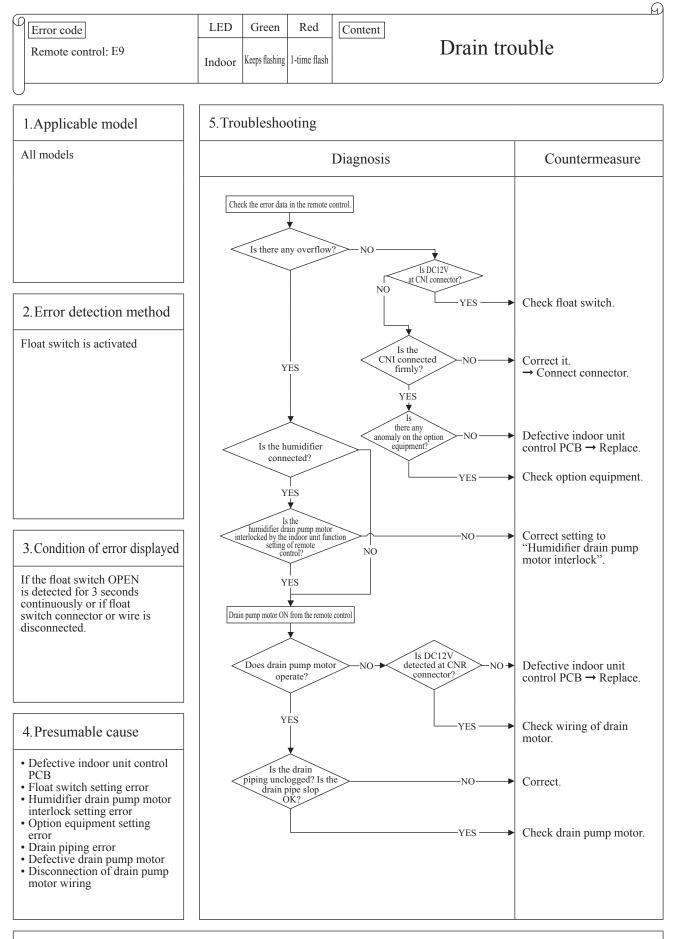






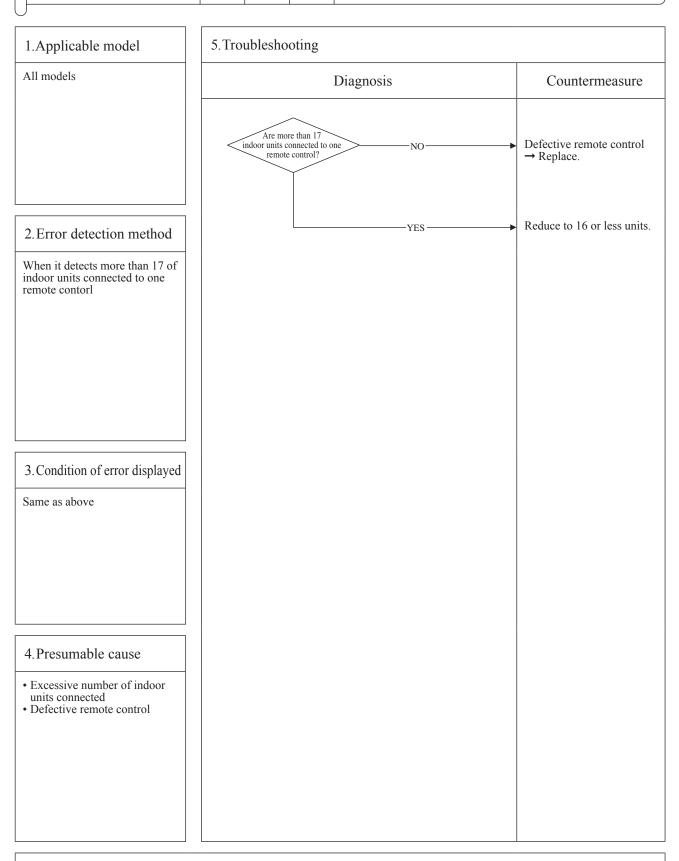


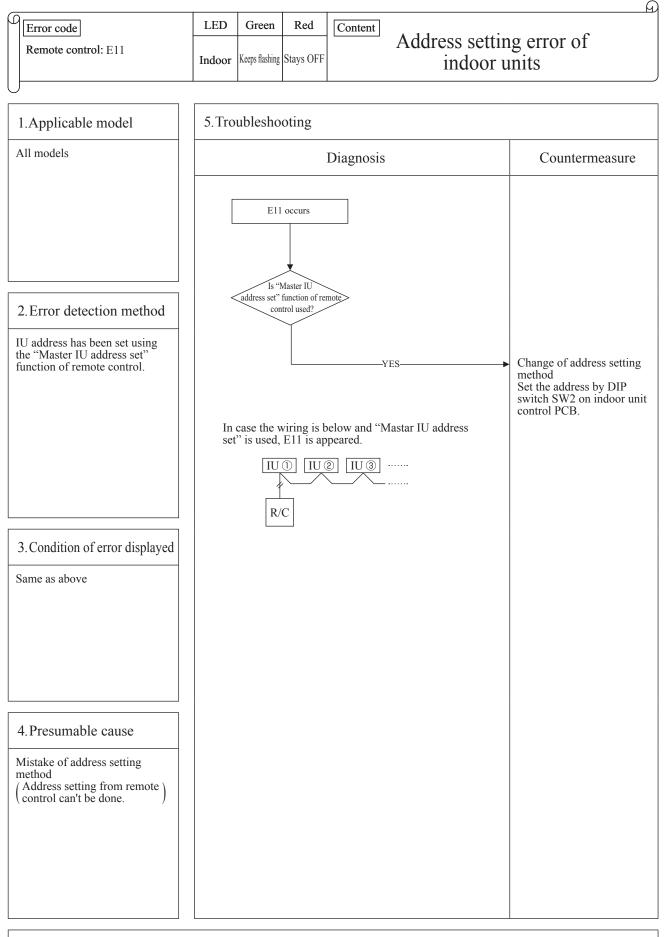
Note: During heating operation; After starting compressor, compressor rotation speed is decreased by detecting indoor heat exchanger temperature (Thi-R) in order to control high pressure.

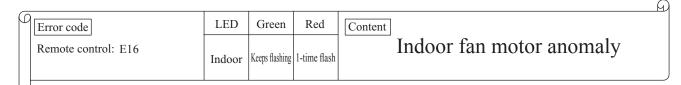


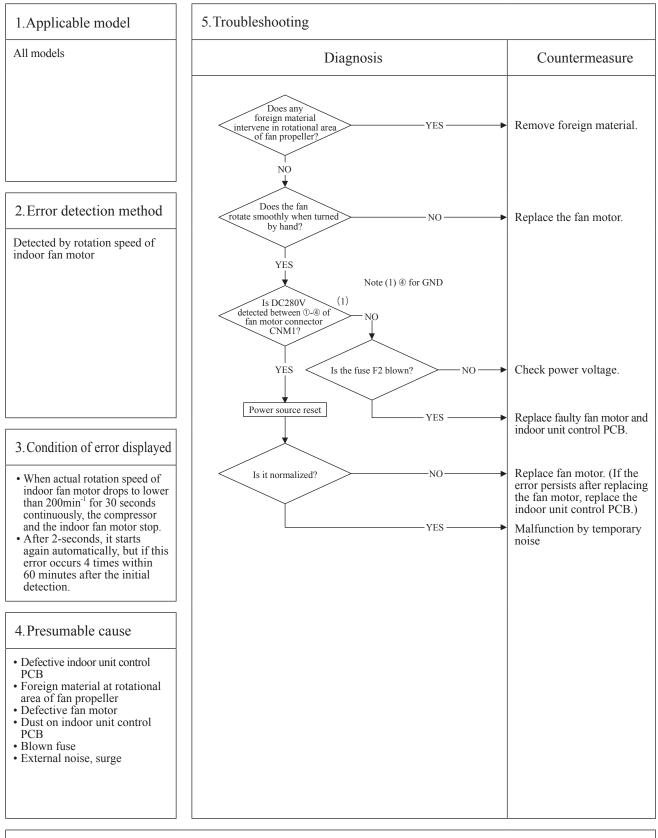
Note: When this error occurred at power ON, disconnection of wire or connector of the float switch is suspected. Check and correct it (or replace it, if necessary).

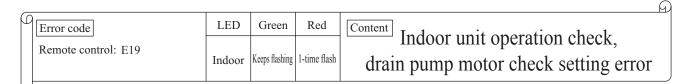
| _ |                     |        |                |           |                                                                             | Ð |
|---|---------------------|--------|----------------|-----------|-----------------------------------------------------------------------------|---|
| ſ | Error code          | LED    | Green          | Red       | Content Excessive number of connected                                       |   |
|   | Remote control: E10 | Indoor | Keeps flashing | Stays OFF | indoor units (more than 17 units)<br>by controlling with one remote control |   |

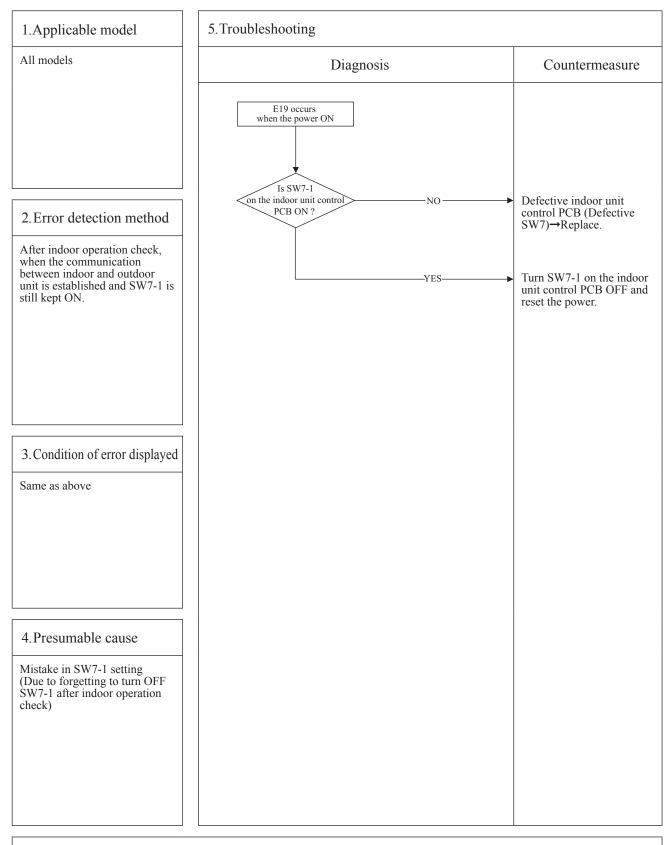


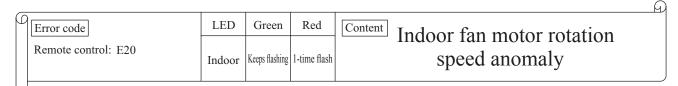


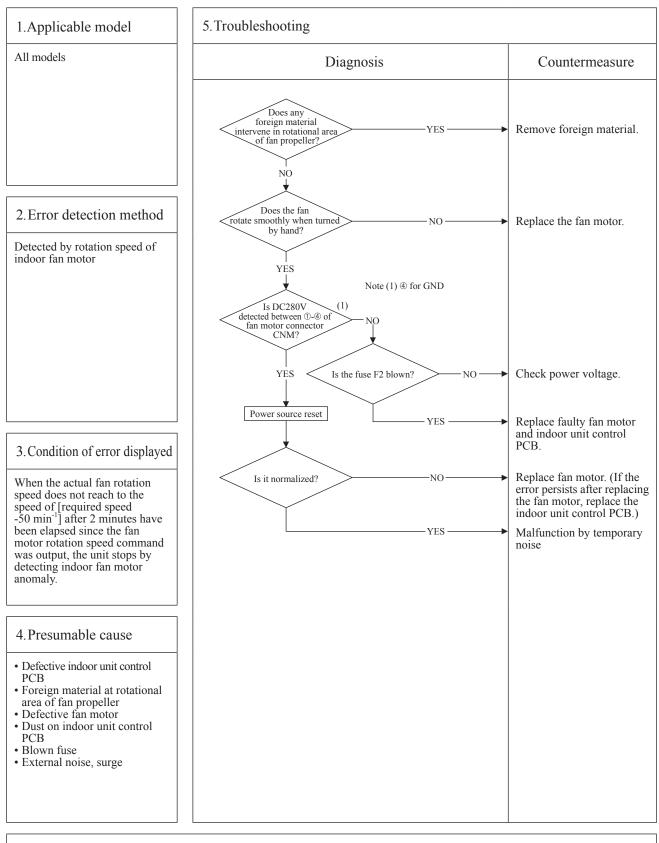


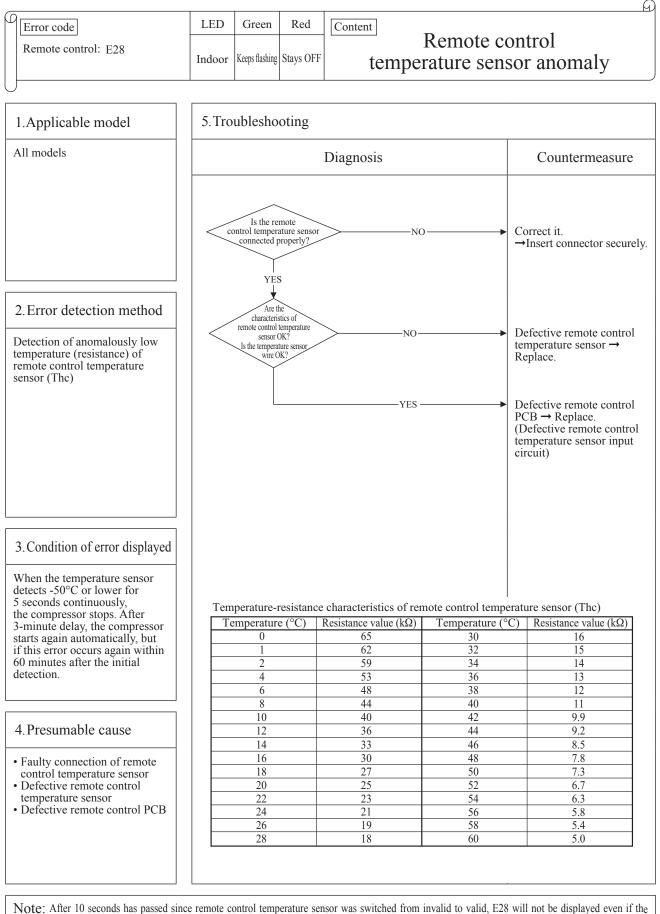






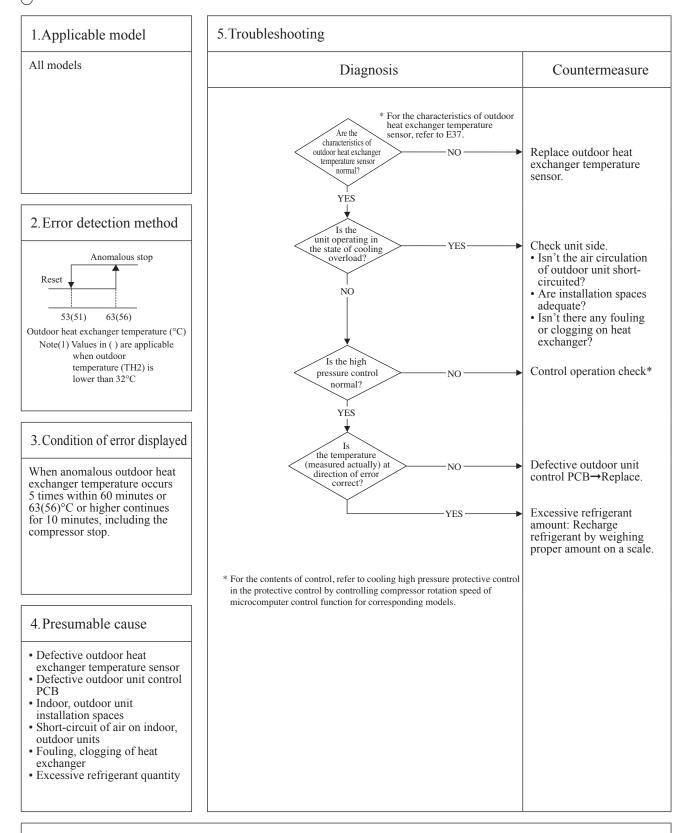




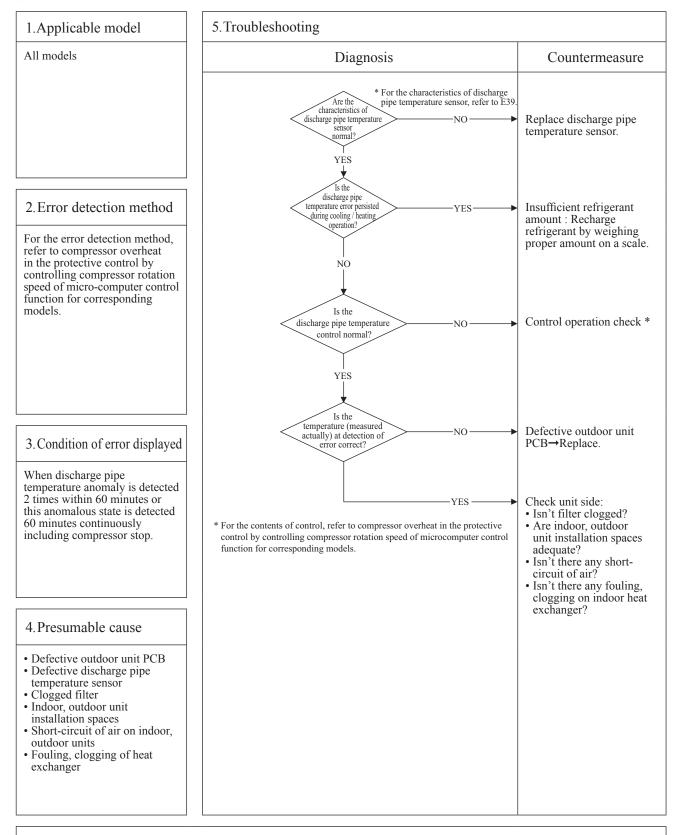


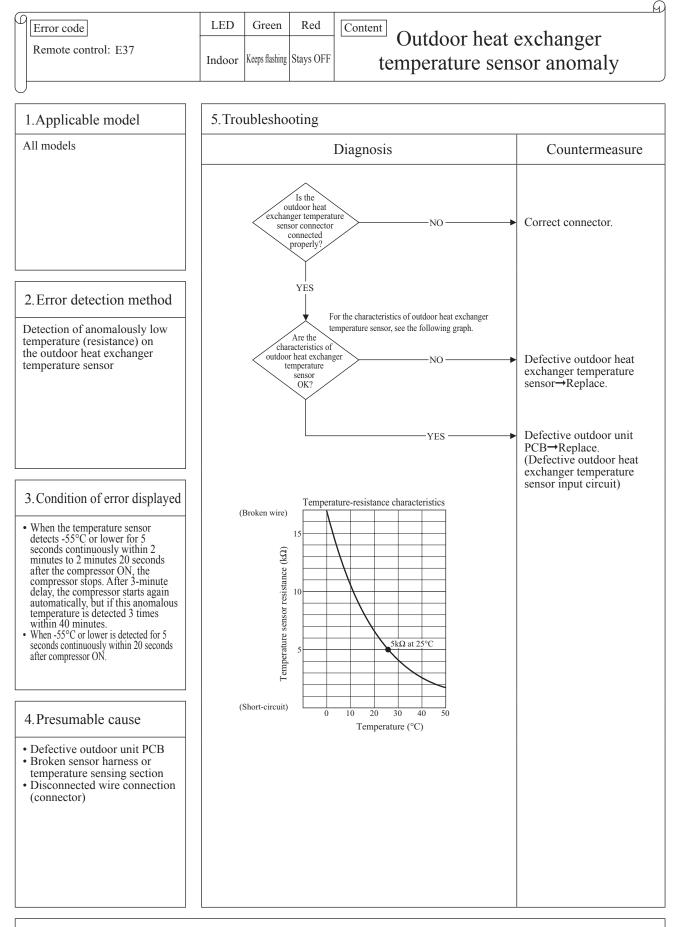
Note: After 10 seconds has passed since remote control temperature sensor was switched from invalid to valid, E28 will not be displayed even if the temperature sensor harness is disconnected. At same time the temperature sensor, which is effective, is switched from remote control temperature sensor to indoor return air temperature sensor. Even though the remote control temperature sensor is set to be effective, the return air temperature displayed on remote control for checking still shows the value detected by indoor return air temperature sensor, not by remote control temperature sensor.

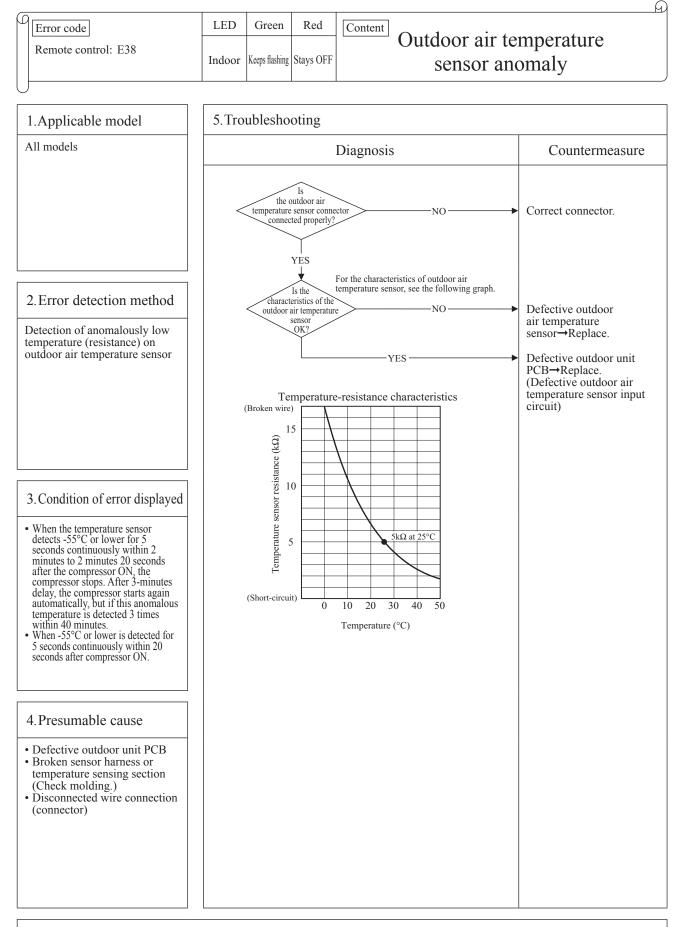


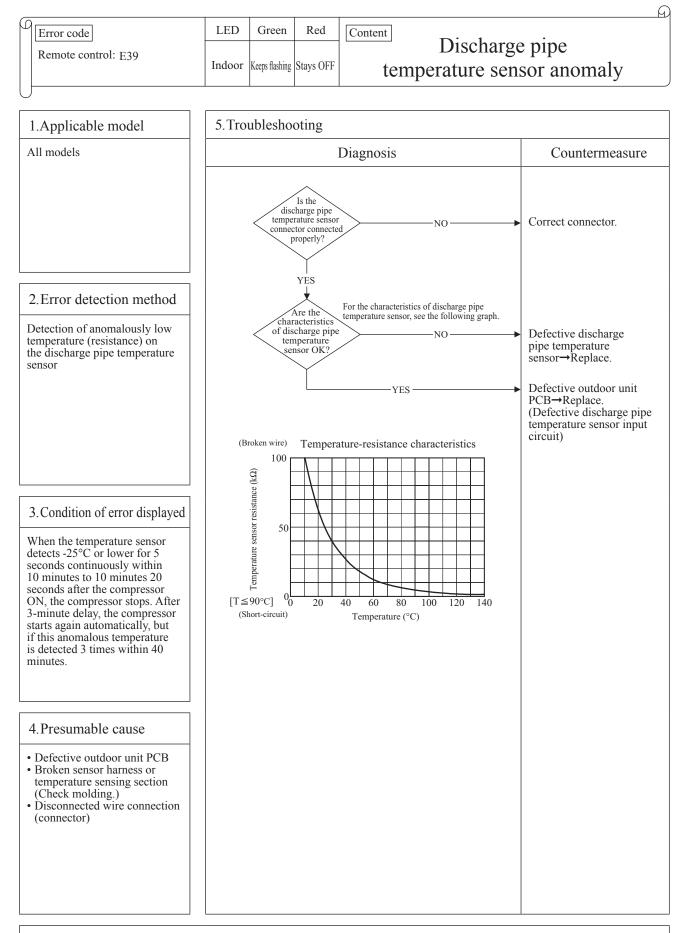


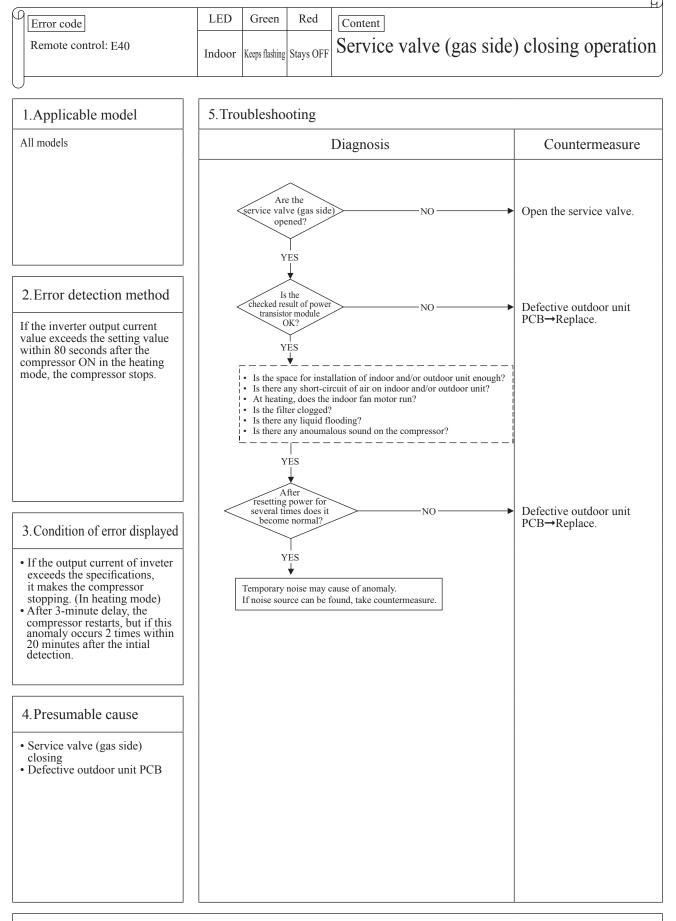


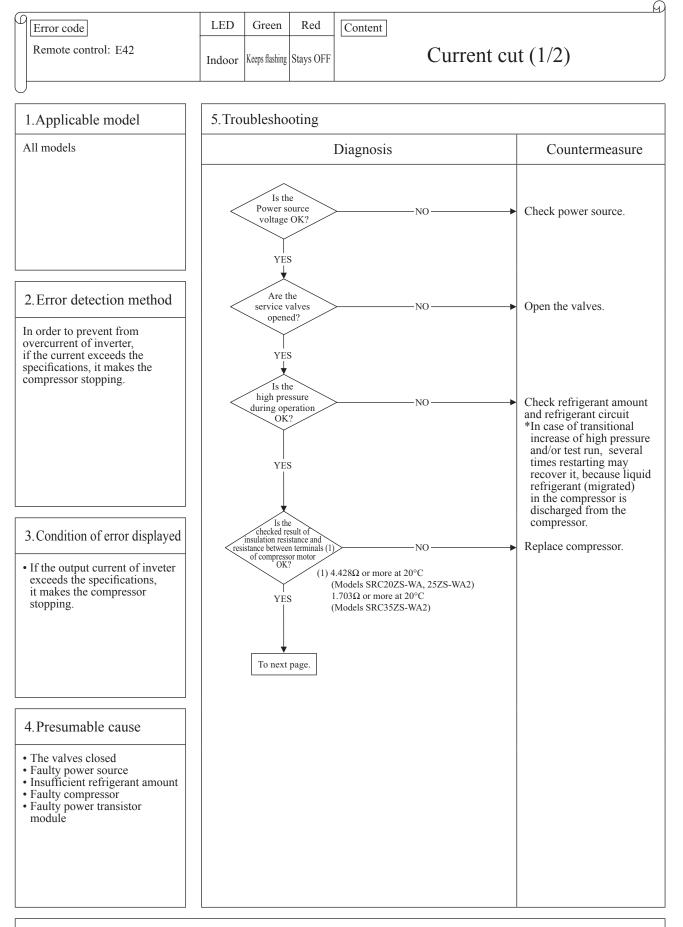


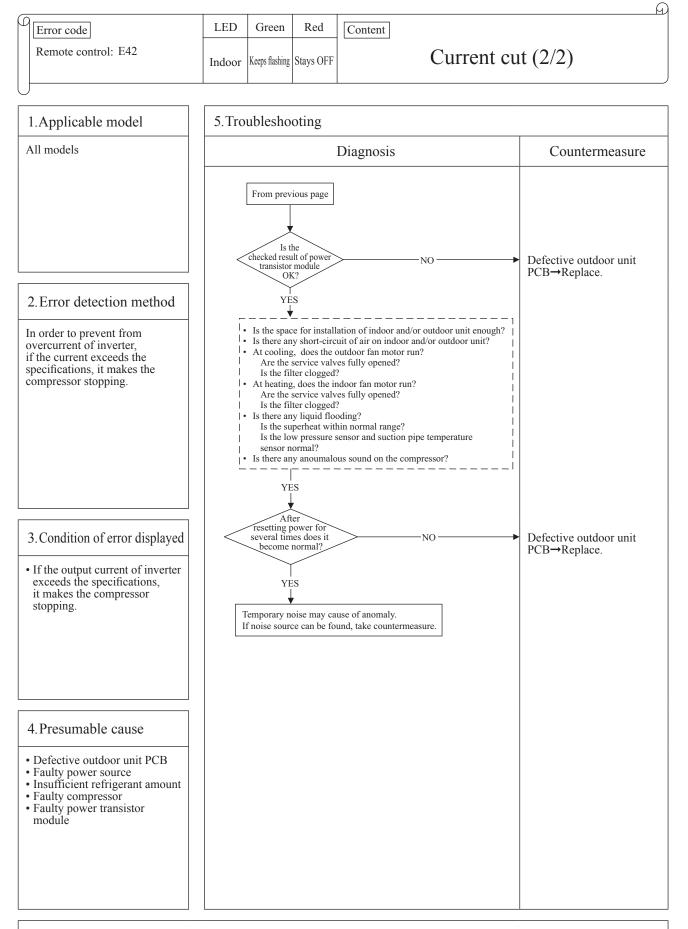




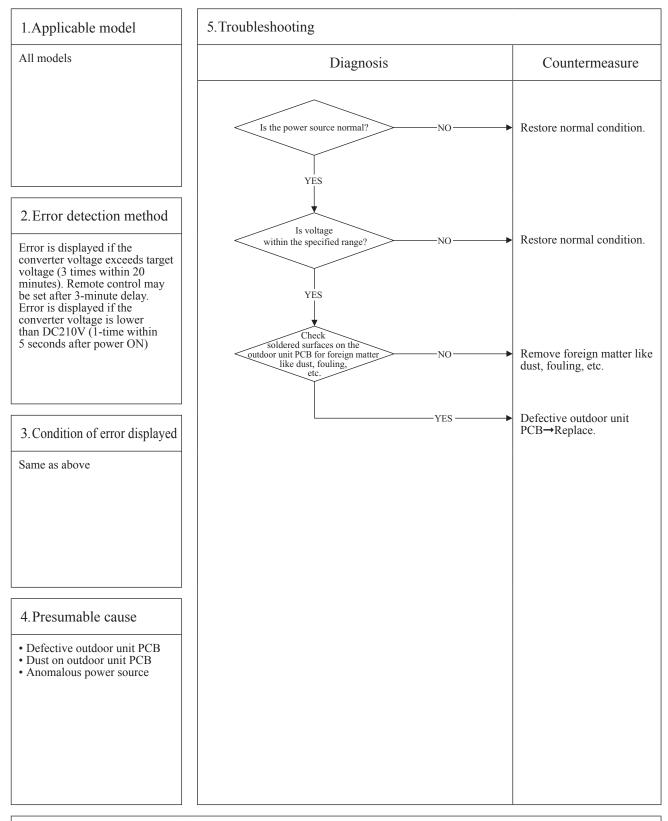




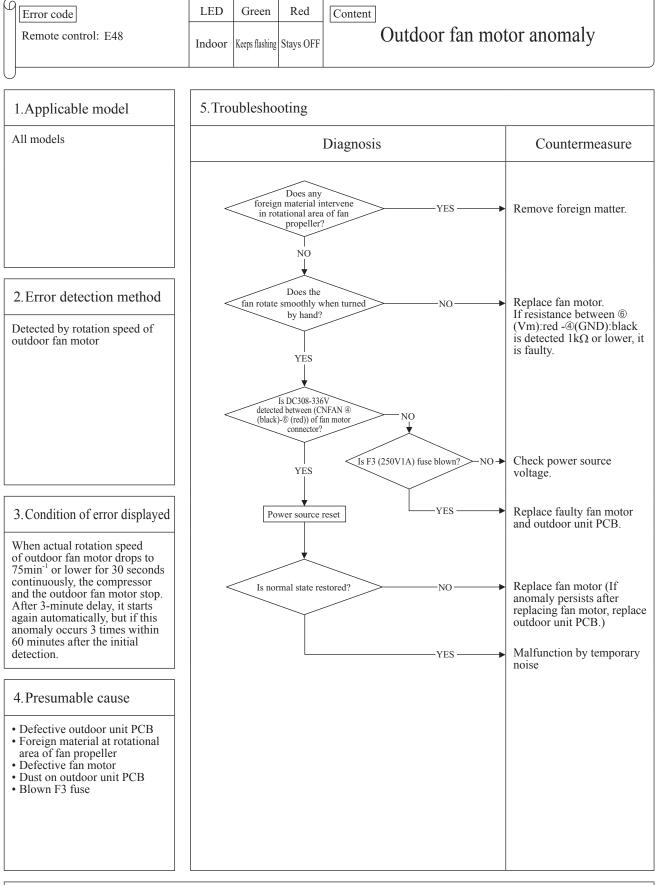




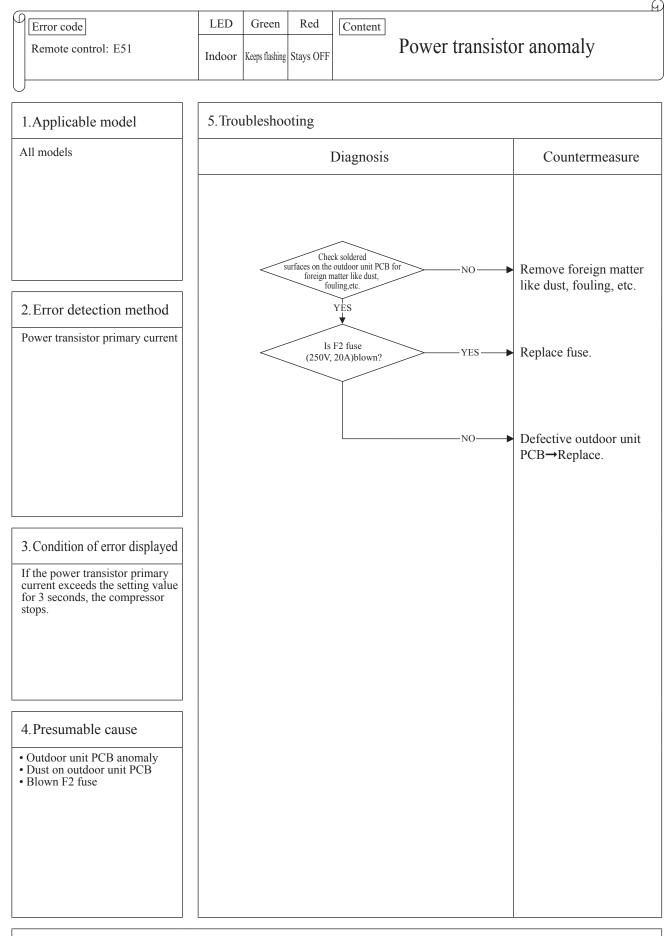




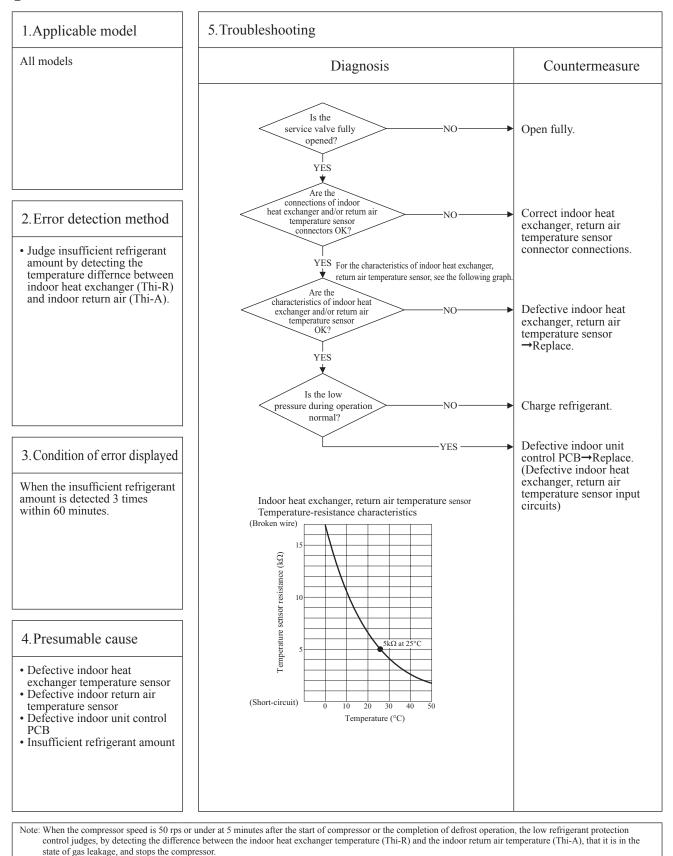
G



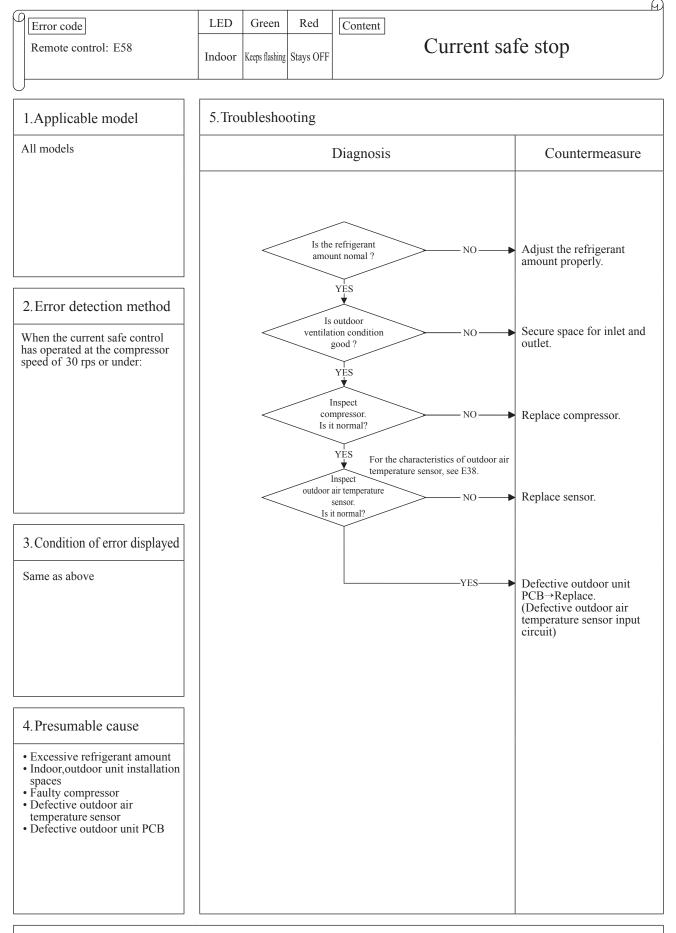
Note: When E48 error occurs, in almost cases F3 fuse (1A) on the outdoor unit PCB is blown. There are a lot of cases that fuse is blown and E48 occurs due to defective fan motor. And even though only the outdoor unit PCB ( or fuse) is replaced, another trouble could occur. Therefore when fuse is blown, check whether the fan motor is OK or not. After confirming the fan motor normal, check by power ON. (Don't power ON without confirming the fan motor normal.)

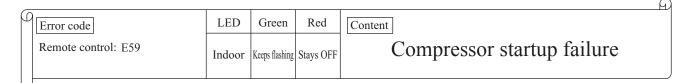


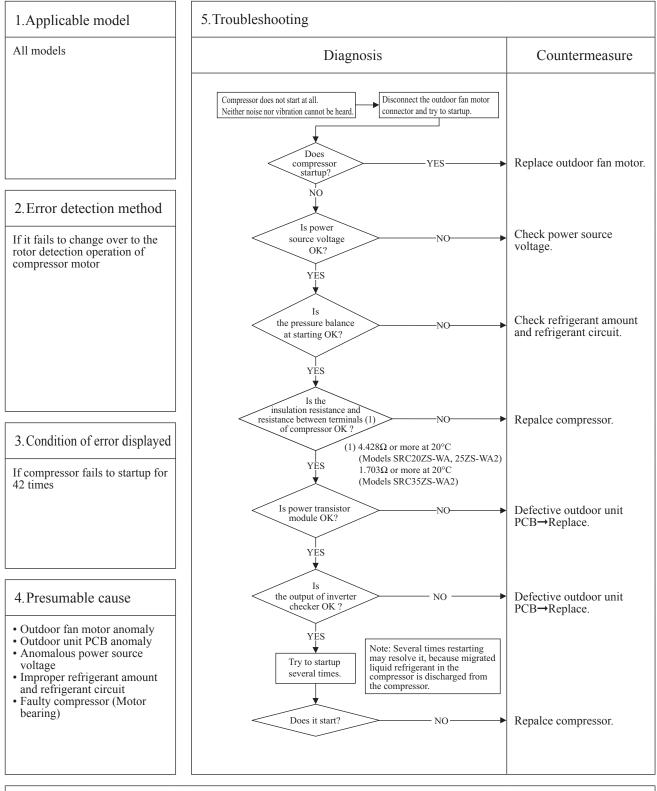




Cooling: Indoor return air temperature (Thi-A) – Indoor heat exchanger temperature (Thi-R) < 4 deg C Heating: Indoor heat exchanger temperature (Thi-R) – Indoor return air temperature (Thi-A) < 4 deg C





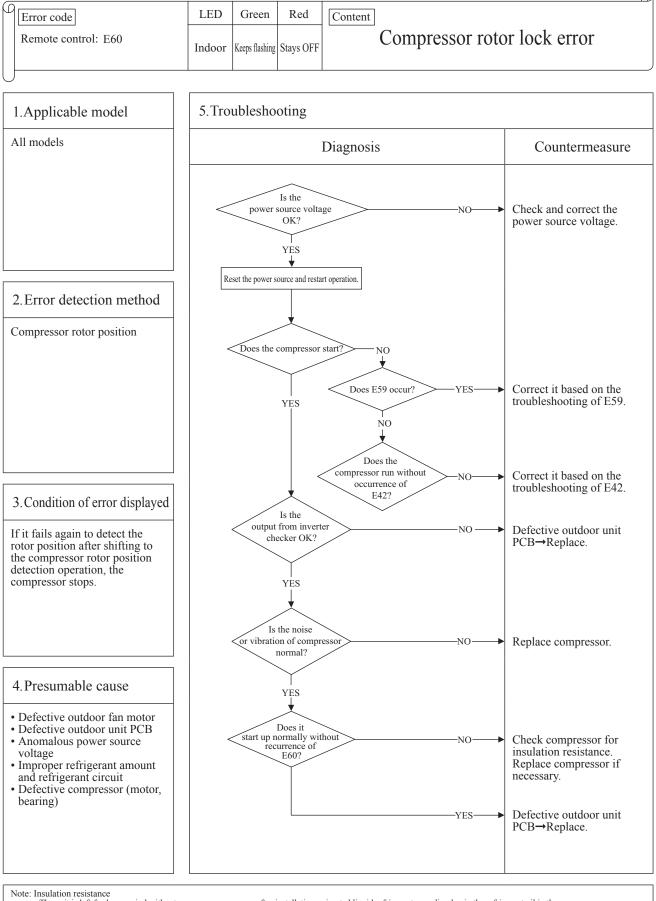


- Note: Insulation resistance
  - The unit is left for long period without power source or soon after installation, migrated liquid refrigerant may dissolve in the refrigerant oil in the compressor. In such case insulation resistance decreases upto several M $\Omega$  or lower. If the electric leakage breaker is activated due to low insulation resistance, ① Check followings.
     ① Check whether the insulation resistance can recover or not, after 6 hours has passed since power ON.

  - (By energize the crankcase heater, migrated liquid refrigerant in the refrigerant oil in compressor can be evaporated)
     (Check whether the electric leakage breaker conforms to high-harmonic specifications. (As units has inverter, in order to prevent from improper operation, be sure to use high-harmonic one.)

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Insulation resistance The unit is left for long period without power source or soon after installation, migrated liquid refrigerant may dissolve in the refrigerant oil in the compressor. In such case insulation resistance decreases up to several M $\Omega$  or lower. If the electric leakage breaker is activated due to low insulation resistance, check followings. © Check whether the insulation resistance can recover or not, after 6 hours has passed since power ON. (By energize the crankcase heater, migrated liquid refrigerant in the refrigerant oil in compressor can be evaporated.) © Check whether the electric leakage breaker conforms to high-harmonic specifications.

- - (As units has inverter, in order to prevent from improper operation, be sure to use high-harmonic one.)

PJZ012A171

## **12. OPTION PARTS**

12.1 Wired remote control (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.

| Failure to follow these instructions properly may result in serious consequences such as death, severe injury, etc. |
|---------------------------------------------------------------------------------------------------------------------|
| 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.

|            | <u>∕</u>                                                                                                                                                                                                    |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | Consult your dealer or a professional contractor to install the unit.<br>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.<br>Improper installation work may result in electric shocks, fire or break-down.                                      |
|            | Be sure to use accessories and specified parts for installation work.<br>Use of unspecified parts may result in drop, fire or electric shocks.                                                              |
| 0          | Install the unit properly to a place with sufficient strength to hold the weight.<br>If the place is not strong enough, the unit may drop and cause injury.                                                 |
| 0          | Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circuit.<br>Power source with insufficient and improper work can cause electric shock and fire.        |
| 0          | Shut OFF the main power source before starting electrical work.<br>Otherwise, it could result in electric shocks, break-down or malfunction.                                                                |
| $\bigcirc$ | <b>Do not modify the unit.</b><br>It could cause electric shocks, fire, or break-down.                                                                                                                      |
| 0          | Be sure to turn OFF the power circuit breaker before repairing/<br>inspecting the unit.<br>Repairing/inspecting the unit with the power circuit breaker turned ON could cause<br>electric shocks or injury. |

|            | <u>∕</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| $\bigcirc$ | Do not install the unit in appropriate environment or where<br>inflammable gas could generate, flow in, accumulate or leak.<br>If the unit is used at places where air contains dense oil mist, steam, organic solvent vapor,<br>corrosive gas (ammonium, sulfuric compound, acid, etc) or where acidic or alkaline<br>solution, special spray, etc. are used, it could cause electric shocks, break-down, smoke or<br>fire as a result of significant deterioration of its performance or corrosion. |
| $\bigcirc$ | Do not install the unit where water vapor is generated excessively or condensation occurs.<br>It could cause electric shocks, fire, or break-down.                                                                                                                                                                                                                                                                                                                                                    |
| $\bigcirc$ | Do not use the unit in a place where it gets wet, such as laundry room.<br>It could cause electric shocks, fire, or break-down.                                                                                                                                                                                                                                                                                                                                                                       |
| $\bigcirc$ | Do not operate the unit with wet hands.<br>It could cause electric shocks.                                                                                                                                                                                                                                                                                                                                                                                                                            |
| $\bigcirc$ | <b>Do not wash the unit with water.</b><br>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.<br>Improper connections or fixing could cause heat generation, fire, etc.                                                                                                                                                                                                                                                                                                  |
| 0          | Seal the inlet hole for remote control cable with putty.<br>If dew, water, insect, etc. enters through the hole, it could cause electric shocks, fire or break-down.<br>If dew or water enters the unit, it may cause screen display anomalies.                                                                                                                                                                                                                                                       |
| 0          | 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.                     |
| 0          | <b>Do not leave the remote control with its upper case removed.</b><br>If dew, water, insect, etc. enters through the hole, it could cause electric shocks, fire or break-down.                                                                                                                                                                                                                                                                                                                       |

|            | <u>∧</u> CAUTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|            | <ul> <li>Do not install the remote control at following places.</li> <li>(1) It could cause break-down or deformation of remote control. <ul> <li>Where it is exposed to direct sunlight</li> <li>Where the ambient temperature becomes 0 °C or below, or 40 °C or above</li> <li>Where the surface is not flat</li> <li>Where the strength of installation area is insufficient</li> </ul> </li> <li>(2) Moisture may be attached to internal parts of the remote control, resulting in a display failure.</li> </ul> |  |  |  |  |
| $\bigcirc$ | <ul> <li>Place with high humidity where condensation occurs on the remote control</li> <li>Where the remote control gets wet</li> <li>(3) Accurate room temperature may not be detected using the temperature sensor of the remote control.</li> </ul>                                                                                                                                                                                                                                                                 |  |  |  |  |
|            | <ul> <li>Where the average room temperature cannot be detected</li> <li>Place near the equipment to generate heat</li> <li>Place affected by outside air in opening/closing the door</li> <li>Place exposed to direct sunlight or wind from air-conditioner</li> <li>Where the difference between wall and room temperature is large</li> </ul>                                                                                                                                                                        |  |  |  |  |
| $\bigcirc$ | To connect to a personal computer via USB, use the dedicated<br>software.<br>Do not connect other USB devices and the remote control at the<br>same time.<br>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 (Φ3.5 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<br>For 1 piece or 2 pieces (JIS C 8340 or equivalent)                                 | 1           |                                                            |
| Thin wall steel pipe for electric<br>appliance directly on a wall.<br>(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 <sup>2</sup> 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 mm<sup>2</sup>. 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 <sup>2</sup> x 2 cores  |
|---------|--------------------------------|
| ≦ 300m  | 0.75 mm <sup>2</sup> x 2 cores |
| ≦ 400m  | 1.25 mm <sup>2</sup> x 2 cores |
| ≦ 600m  | 2.0 mm <sup>2</sup> x 2 cores  |

# 3. Installation place

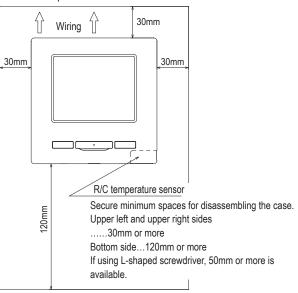
Secure the installation space shown in the figure.

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.

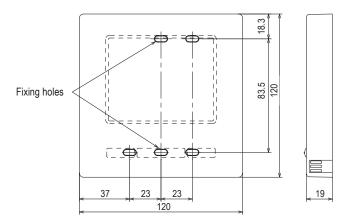
### Installation space



# 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

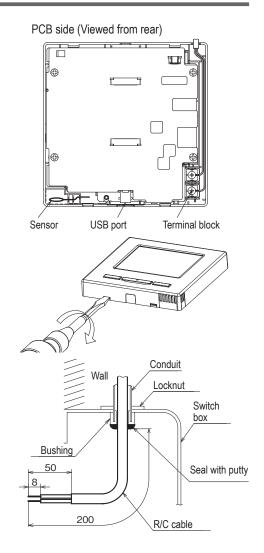
 Insert the tip of flat head screwdriver or the like in the recess at the lower part of R/C and twist it lightly to remove. It is recommended that the tip of the screwdriver be wrapped with tape to avoid damaging the case.

Take care to protect the removed upper case from moisture or dust.

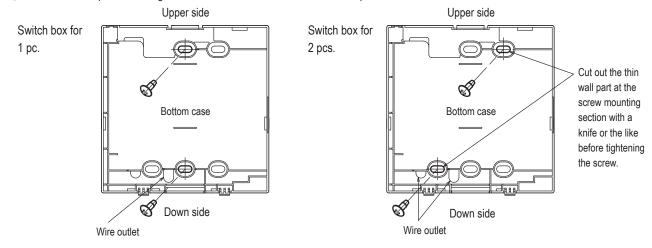
In case of embedding wiring

(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.



Wiring hole on

bottom case

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 mm<sup>2</sup> for wiring running through the remote control case. Take care not to pinch the sheath.

Tighten by hand  $(0.7 \text{ N} \cdot \text{m or less})$  the wire connection. If the wire is connected using an electric driver, it may cause failure or deformation.

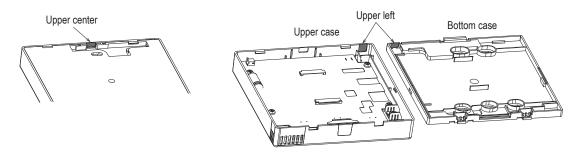
In case of exposing wiring

(When the wiring is taken out from the "upper center" or "upper left" of R/C)

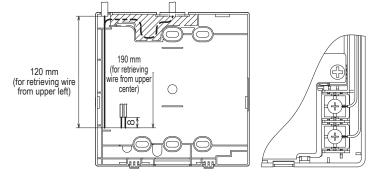
① Cut out the thin wall sections on the cases for the size of wire.

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.

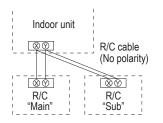


# 5. Main/Sub setting when more than one remote control are used

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.

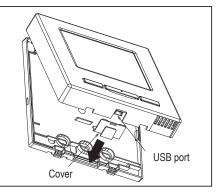


| R/C operation                               | าร                                     |                                    | Main | Sub |
|---------------------------------------------|----------------------------------------|------------------------------------|------|-----|
| Run/Stop, Ch<br>Change flap<br>speed operat | nange set ter<br>direction, Au<br>ions | np.,<br>to swing, Change fan       | 0    | 0   |
|                                             |                                        | ergy-saving operation              | 0    | 0   |
| Silent mode of                              | control                                |                                    | 0    | x   |
| Useful                                      | Individual f                           | ap control                         | 0    | x   |
| functions                                   | Anti draft s                           | etting                             | 0    | x   |
|                                             | Timer                                  |                                    | 0    | 0   |
|                                             | Favorite se                            | tting                              | 0    | 0   |
|                                             | Weekly tim                             | er                                 | 0    | x   |
|                                             | Home leave                             | 0                                  | x    |     |
|                                             | External ve                            | 0                                  | 0    |     |
|                                             | Select the I                           | 0                                  | 0    |     |
|                                             | Silent mode                            | 0                                  | ×    |     |
| Energy-savin                                | g setting                              |                                    | 0    | х   |
| Filter                                      | Filter sign r                          | eset                               | 0    | 0   |
| User setting                                | Initial settin                         | gs                                 | 0    | 0   |
|                                             | Administrator settings                 | Permission/<br>Prohibition setting | 0    | x   |
|                                             |                                        | Outdoor unit silent<br>mode timer  | 0    | ×   |
|                                             |                                        | Setting temp. range                | 0    | x   |
|                                             |                                        | Temp increment setting             | 0    | ×   |
|                                             |                                        | 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 operation | ıs           |            |                               | Main   | Sub    |
| Service       | Installation | Installati | on date                       | 0      | x      |
| setting       | settings     | Compan     | y information                 | 0      | 0      |
|               |              | Test run   | ·                             | 0      | ×      |
|               |              | Static pr  | essure adjustment             | 0      | ×      |
|               |              | Change     | auto-address                  | 0      | ×      |
|               |              | Address    | setting of main IU            | 0      | х      |
|               |              | IU back-   | up function                   | 0      | x      |
|               |              | Motion s   | ensor setting                 | 0      | x      |
|               | R/C function | Main/Su    | b of R/C                      | 0      | 0      |
|               | settings     | Return a   | ir temp.                      | 0      | ×      |
|               |              | R/C sen    | sor                           | 0      | x      |
|               |              | R/C sen    | sor adjustment                | 0      | x      |
|               |              | Operatio   | on mode                       | 0      | x      |
|               |              | °C/°F      |                               | 0      | x      |
|               |              | Fan spe    | 0                             | ×      |        |
|               |              | External   | 0                             | x      |        |
|               |              | Upper/lc   | 0                             | ×      |        |
|               |              | Left/righ  | t flap control                | 0      | ×      |
|               |              | Ventilati  | on setting                    | 0      | x      |
|               |              | Auto-res   | tart                          | 0      | x      |
|               |              | Auto ten   | 0                             | ×      |        |
|               |              | Auto fan   | 0                             | ×      |        |
|               | IU settings  |            |                               | 0      | ×      |
|               | Service &    | IU addre   | ess                           | 0      | 0      |
|               | Maintenance  | Next ser   | 0                             | ×      |        |
|               |              | Operatio   | on data                       | 0      | x      |
|               |              | Error      | Error history                 | 0      | 0      |
|               |              | display    | Display/erase<br>anomaly data | 0      | ×      |
|               |              |            | Reset periodical check        | 0      | 0      |
|               |              | Saving I   | U 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

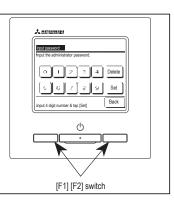
service password (for installation, test run and maintenance) are used.

• 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.



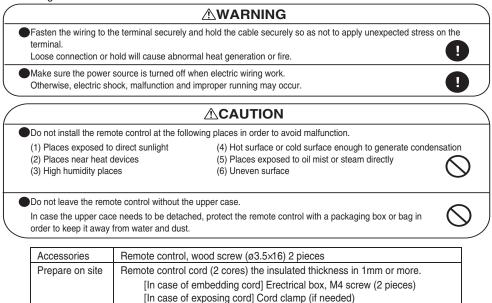
#### Advice

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.

#### (2) Model RC-E5

## PJA012D730

Read together with indoor unit's installation manual.

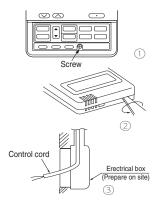


#### Installation procedure

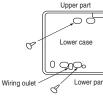
- Open the cover of remote control, and remove the screw under the buttons without fail.
- Remove the upper case of remote control. Insert a flat-blade screwdriver into the dented part of the upper part of the remote control, and wrench slightly.

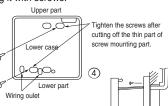
#### [In case of embedding cord]

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.

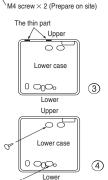




- S Connect the remote control cord to the terminal block. Connect the terminal of remote control (X,Y) with the terminal of indoor unit (X,Y). (X and Y are no polarity)
- Install the upper case as before so as not to catch up the remote control cord, and tighten with the screws.

#### [In case of exposing cord]

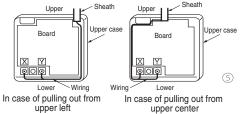
- ③ You can pull out the remote control cord from left upper part or center upper part. Cut off the upper thin part of remote control lower case with a nipper or knife, and grind burrs with a file etc.
- ④ Install the lower case to the flat wall with attached two wooden screws.



(4)

 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 0.3mm<sup>2</sup> (recommended) to 0.5mm<sup>2</sup>. 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              | The peeling-off length |
| Y wiring : 195mm            | Y wiring : 190mm              | of sheath              |

- 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

- Wiring of remote control should use 0.3mm<sup>2</sup> × 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.

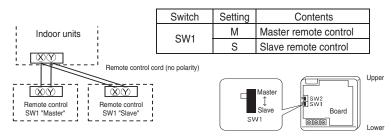
But, wiring in the remote control case should be under 0.5mm<sup>2</sup>. Change the wire size outside of the case according to wire connecting. Waterproof treatment is necessary at the wire connecting section. Be careful about contact failure.

Under 300m ......0.75mm<sup>2</sup> × 2 cores

Under 600m  $\sim$  2.0mm<sup>2</sup> × 2 cores

#### 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.

| Master remote control : "       | Μ" |
|---------------------------------|----|
| Slave remote control : " @#AIT@ | S" |

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.

ΠЬ RE \* The left mark is only an example. Other marks may ®₩AIT® М appear.

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)

#### Oupper 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.

1. When (2) TEMP 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 ]

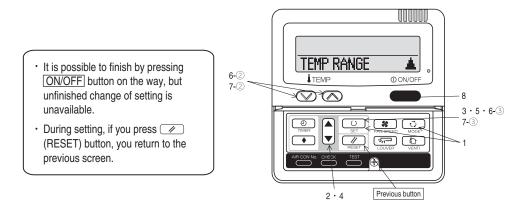
During except heating, even if the value lower than the lower limit is set, lower limit value will be sent to the indoor unit. But, the indication is the same as the temperature set.

#### How to set upper and lower limit value

1. Stop the air-conditioner, and press O (SET) and C. (MODE) button at the same time for over three seconds .

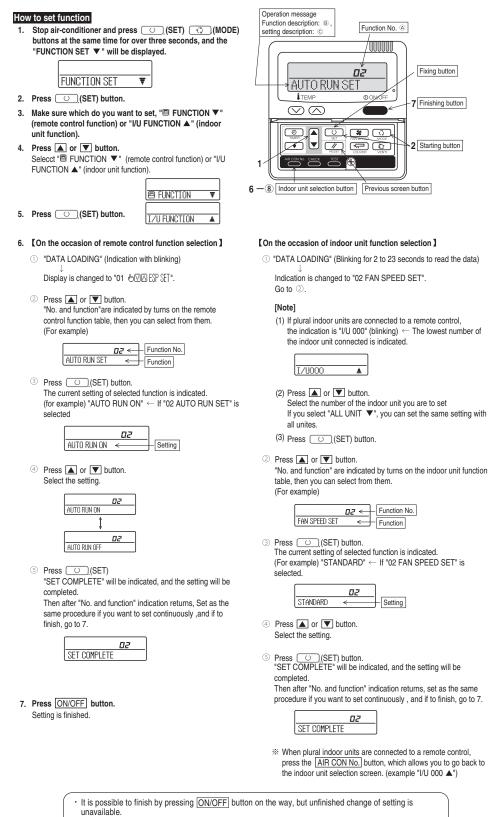
The indication changes to "FUNCTION SET ▼".

- 2. Press 💟 button once, and change to the "TEMP RANGE 🔺 " indication.
- 3. Press O. (SET) button, and enter the temperature range setting mode.
- 4. Select "UPPER LIMIT ▼ " or "LOWER LIMIT ▲ " by using ▲ ▼ button.
- 5. Press <u>(SET)</u> 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 **A**" is selected (valid during cooling, dry, fan, automatic)
  - ① Indication: " $^{\bullet}$   $\lor$   $\land$  SET UP"  $\rightarrow$  "LOWER 18°C  $\land$ "
  - (2) Select the lower limit value with temperature setting button  $\bigtriangledown$  . Indication example: "LOWER 24°C  $\lor \land$ " (blinking)
  - ③ Press <u>○</u>(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.



| functional setting                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                         |                                |                           |                                                                |                                                              |                                               |                  |                    |
|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------|---------------------------|----------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------|------------------|--------------------|
| initial function setting for typical using is performed                                     | utomatically by the indoor unit connected, when remote                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Note 1: The initial set                 |                                | · · · ·                   |                                                                | utdoor unit, and is auto                                     | matically defined                             | d as followir    | ng table.          |
| trol and indoor unit are connected.<br>ong as they are used in a typical manner, there will | no need to change the initial settings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Function No.<br>Bemote control          | Item<br>AUTO RUN SET           | Default<br>AUTO RUN ON    | Model                                                          | JN" mode selectable i                                        | adoor unit                                    |                  |                    |
| u would like to change the initial setting marked "                                         | , set your desired setting as for the selected item.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | function02                              | HOTO NON OCT                   | AUTO RUN OFF              | Indoor u                                                       | nit without "Auto-RUN                                        | mode                                          |                  |                    |
| procedure of functional setting is shown as the follo                                       | ing diagram.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Remote control                          | ISEIFAN SPEED S₩               | ල 📧 VALID                 |                                                                | nit with two or three st                                     |                                               | ing              |                    |
| v of function setting]                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | function06<br>Remote control            | INTER SM                       | ළ INVALI<br>සු VALID      | D Indoor u                                                     | nit with only one of air<br>nit with automatically s         | tiow setting<br>wing louver                   |                  |                    |
| : Stop air-conditioner and press " [ ] (SET) and                                            | Record and keep the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | function07                              |                                | ତ 🖅 INVALI                | Indoor u                                                       | nit without automatical                                      | ly swing louver                               |                  |                    |
| " (MODE) buttons at the same time for ove                                                   | hree seconds. setting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Remote control<br>function13            | I/U FAN                        | HI-MID-LO<br>HI-LO        |                                                                | nit with three step of a<br>nit with two step of air         |                                               |                  |                    |
| e : Press "O"," (SET) button.<br>: Press "O" (RESET) button.                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Tunction 13                             |                                | HI-LU<br>HI-MID           | indoor u                                                       | nit with two step of air                                     | now setting                                   |                  |                    |
| : Press A V button.                                                                         | Consult the technical data etc. for each control details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                         |                                | 1 FAN SPEED               |                                                                | nit with only one of air                                     | flow setting                                  |                  |                    |
| : Press ON/OFF button.<br>ssible to finish above setting on the way.                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Remote control<br>function15            | MODEL TYPE                     | HEAT PUMP<br>COOLING ONLY | Heat pur                                                       |                                                              |                                               |                  |                    |
| finished change of setting is unavailable.                                                  | Stop air-conditioner and press                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                         | indoor unit set inde           |                           | each master and slav                                           | e cooling unit                                               |                                               |                  |                    |
| Initial settings<br>Automatic criterion                                                     | . (SET) + . (MODE) buttons<br>t the same time for over three seconds.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | But only mas                            | ter indoor unit is re          | ceived the sett           | ing change of indoor u                                         | unit function "05 EXTE                                       | RNAL INPUT" ar                                | nd "06 PERI      | MISSION /          |
|                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | PROHÍBISH                               | ION".                          |                           |                                                                |                                                              |                                               |                  |                    |
|                                                                                             | FUNCTION SET V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                         |                                |                           |                                                                |                                                              |                                               |                  |                    |
|                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | unit No. are indicated only             | when                           |                           | Note2: Fan setting of *H                                       |                                                              | loor unit air flow se                         | #in -            |                    |
| CTION V (Remote control function)                                                           | (Indoor unit function) 1/U FUNCTION A plural                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | indoor units are connected.<br>Function |                                |                           | Fan tap                                                        | 000<br>0.08 - 0.08 - 0.08 - 0.08                             |                                               |                  | 8af - 8ai          |
| Function                                                                                    | 1/0000 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | * 02 FAN SPEED SET                      | setting                        |                           | FAN STANDARD                                                   | UH - Hi - Me - Lo                                            | Hi - Me - Lo                                  | Hi - Lo          | Hi - Me            |
| * * 01 500 ESP SET setting                                                                  | ○ Validate setting of ESP:External Static Pressure 1/1002 ≠                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                         | STANDARD<br>HIGH SPEED 1       | *                         | SPEED HIGH                                                     |                                                              |                                               |                  |                    |
| 02 LAUTO RUN SET                                                                            | Invalidate setting of ESP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | * 03 FILTER SIGN SET                    | HIGH SPEED 2                   |                           | SPEED1, 2                                                      | UH - UH - Hi - Me                                            | UH - Hi - Me                                  | UH - Me          | UH - Hi            |
| AUTO RUN ON                                                                                 | *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | * U3 FILLEN SLOW SET                    | INDICATION OF                  |                           |                                                                | some indoor unit is "HIGH                                    | SPEED".                                       |                  |                    |
| AUTO RUN OFF                                                                                | X Automatical operation is impossible                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                         | TYPE 1<br>TYPE 2               |                           | he filter sign is indicated a<br>he filter sign is indicated a | fter running for 180 hours.<br>Ifter running for 600 hours.  |                                               |                  |                    |
| 승 I A A A A A A A A A A A A A A A A A A                                                     | To set other indoor unit, press<br>AIR CON No. button, which                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5                                       | TYPE 3<br>TYPE 4               | 1 1                       | he filter sign is indicated a                                  | fter running for 1000 hours<br>fter running for 1000 hours   | s.<br>Than the indeer up                      | it will be close | nod bu             |
| 04 EE MODE SW                                                                               | allows you to go back to the in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ndoor                                   | -                              | c                         | ompulsion after 24 hours.                                      |                                                              |                                               | it will be stop; | iped by            |
| SE VALID                                                                                    | O     Unit selection screen     Mode button is not working     (for example: I/U 000 ▲).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 04 377 POSITION                         |                                | 1                         | you change the indoor fu                                       | nction "04 -> POSITION                                       | ",<br>"POSITION" accordi                      | nalv             |                    |
| 05 ① ON/OFF SW<br>やの VALID                                                                  | (for example: I/U 000 ▲).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                         | 4POSITION ST<br>FREE STOP      | P O                       | ou can select the louver s                                     | top position in the four.                                    | roorroor accords                              | 1919-            |                    |
| 50 INVALID                                                                                  | On/Off button is not working                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 05 EXTERNAL INPUT                       |                                |                           | 'he louver can stop at any                                     | position.                                                    |                                               |                  |                    |
| 06 [포리FAN SPEED SW]                                                                         | *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                         | LEVEL INPUT<br>PULSE INPUT     | - 0                       |                                                                |                                                              |                                               |                  |                    |
| 6월 VALID<br>6월 INVALID                                                                      | Fan speed button is not working                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 06 OPERATOR/PERMISSION/PROMOTION        |                                |                           |                                                                |                                                              |                                               |                  |                    |
| 07 E LOUVER SW                                                                              | *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                         | INVALID<br>VALID               | F                         | ermission/prohibition cont                                     | rol of operation will be vali                                | d.                                            |                  |                    |
| 08 @ TIMER SM                                                                               | Louver button is not working                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | * 07 EMERGENCY STOP                     | INVALID                        | 10                        |                                                                |                                                              |                                               |                  |                    |
| 60 VALID<br>60 INVALID                                                                      | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                         | VALID                          | v                         | Vith the VRF series, it is u                                   | sed to stop all indoor units                                 | connected with the :                          | same outdoor     | r unit immediatel  |
| * 09 ESENSOR SET                                                                            | Timer button is not working                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                         |                                | v                         | When stop signal is inputed                                    | from remote on-off termin                                    | al "CNT-6", all indo                          | or units are st  | topped immediat    |
| SENSOR OFF                                                                                  | Remote thermistor is not working.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                         | OFFECT - O.O.                  |                           |                                                                |                                                              |                                               |                  |                    |
| SENSOR ON<br>SENSOR +3.05                                                                   | Remote thermistor is working.<br>Remote thermistor is working, and to be set for producing +3.0 °C increase in temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                         | OFFSET +3.0%<br>OFFSET +2.0%   |                           | o be reset for producing +<br>o be reset for producing +       | 3.0°C increase in tempera<br>2.0°C increase in tempera       | ture during heating.<br>ture during heating.  |                  |                    |
| ESENSOR +2.05<br>ESENSOR +1.05                                                              | Remote thermistor is working, and to be set for producing +2.0°C increase in temperature<br>Remote thermistor is working, and to be set for producing +1.0°C increase in temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | * 08 × SP OFFSET                        | OFFSET + 1.0%<br>NO OFFSET     |                           | o be reset for producing +                                     | 1.0°C increase in tempera                                    | ture during heating.                          |                  |                    |
| SENSOR - 1.0°C                                                                              | Remote thermistor is working, and to be set for producing -1.0°C increase in temperature.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                         |                                |                           |                                                                |                                                              |                                               |                  |                    |
| ESENSOR -2.05<br>ESENSOR -3.05                                                              | Remote thermistor is working, and to be set for producing -2.0°C increase in temperature.<br>Remote thermistor is working, and to be set for producing -3.0°C increase in temperature.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                         | OFFSET +2.0%<br>OFFSET +1.5%   |                           | o be reset producing +2.0<br>o be reset producing +1.5         | °C increase in return air te<br>°C increase in return air te | mperature of indoor<br>mperature of indoor    | unit.<br>unit.   |                    |
| 10 AUTO RESTART                                                                             | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | * 09 RETURN AIR TEMP                    | OFFSET + 1.0%<br>NO OFFSET     |                           | o be reset producing +1.0                                      | °C increase in return air te                                 | mperature of indoor                           | unit.            |                    |
| INVALID                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                         | OFFSET - 1.0%<br>OFFSET - 1.5% | ī                         | o be reset producing -1.0                                      | C increase in return air ter                                 | nperature of indoor i                         | unit.            |                    |
| * 11 VENT LINK SET NO VENT                                                                  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                         | OFFSET -1.5%<br>OFFSET -2.0%   | 1                         | o be reset producing -1.5                                      | C increase in return air ter<br>C increase in return air ter | nperature of indoor i                         | unit.            |                    |
|                                                                                             | In case of Single split series, by connecting ventilation device to CNT of the<br>indoor printed circuit board (in case of VRF series, by connecting it to CND o                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | * 10 × FAN CONTROL                      | LINN EAN SPEED                 |                           |                                                                | OFF, fan speed is low sp                                     |                                               | anne.            |                    |
| VENT LINK                                                                                   | indoor printed circuit board), the operation of ventilation device is linked with                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | the                                     | SET FAN SPEED                  |                           | Vhen heating thermostat is<br>Vhen heating thermostat is       | OFF, fan speed is low sp<br>OFF, fan speed is set sp         | eed.<br>eed.                                  |                  |                    |
|                                                                                             | operation of indoor unit.<br>In case of Single split series, by connecting ventilation device to CNT of the indoor printed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4                                       | INTERMITTENCE                  |                           | When beating thermostat is                                     | OFF. fan speed is operat                                     | ed intermittently.                            |                  |                    |
| NO VENT LINK                                                                                | circuit board (in case of VRF series, by connecting it to CND of the indoor printed circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                         | FAN OFF                        | V                         | When heating thermostat is                                     | oFF, the fan is stopped.<br>r is working, "FAN OFF" is       |                                               |                  |                    |
| 12 TEMP RANGE SET                                                                           | board), you can operate /stop the ventilation device independently by (VENT) bu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | tton.                                   |                                | r<br>C                    | onot set "FAN OFF" whe                                         | n the indoor unit's thermist                                 | or is working.                                |                  |                    |
| INDN CHANGE                                                                                 | If you change the range of set temperature, the indication of set temperature will vary following the control.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | * 11 FROST PREVENTION TEM               | 7                              |                           |                                                                | hanger temperature to star                                   |                                               | ntrol            |                    |
| NO INDN CHANGE                                                                              | If you change the range of set temperature, the indication of set temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                         | TEMP HIGH<br>TEMP LOW          |                           |                                                                |                                                              |                                               |                  |                    |
| 13 I/U FAN                                                                                  | will not vary following the control, and keep the set temperature.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         |                                | -10                       |                                                                |                                                              |                                               |                  |                    |
| HI-MID-LO<br>HI-LO                                                                          | Air flow of fan becomes the three speed of \$4.01 -\$4.01 or \$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 -\$4.01 | C.* 12 FROST PREVENTION CONTROL         | ]<br>  FAN CONTROL O           | <u> </u>                  | Vorking only with the Singl                                    | e split series.                                              |                                               |                  |                    |
| HI-MID                                                                                      | Air flow of fan becomes the two speed of & at - & at .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                         | FAN CONTROL O                  |                           | o control trost prevention,                                    | the indoor fan tap is raise                                  | 1.                                            |                  |                    |
| 1 FAN SPEED                                                                                 | Air flow of fan is fixed at one speed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | * 13 DRAIN PUMPLINK                     | \$0                            |                           | Drain pump is run during c                                     | oling and dry                                                |                                               |                  |                    |
| * * 14 STPOSITION                                                                           | If you change the remote control function "14 ->>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                         | <b>泰</b> 心AND來                 |                           | Drain pump is run during co                                    | oling, dry and heating.                                      |                                               |                  |                    |
| 4POSITION STOP                                                                              | O You can select the louver stop position in the four.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                         | 参心 AND 兴 AND B<br>参心 AND BB    |                           | Drain pump is run during or<br>Drain pump is run during or     | coling, dry, heating and far<br>coling, dry and fan.         | l.                                            |                  |                    |
| FREE STOP                                                                                   | The louver can stop at any position.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | * 14 SFAN REMAINING                     | NO REMAINING                   |                           |                                                                |                                                              | um autor c *                                  |                  |                    |
| HEAT PUMP                                                                                   | *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                         | 0.5 HOUR                       |                           | After cooling is stopped is (                                  | OFF, the fan does not perfo<br>OFF, the fan perform extra    | operation for half ar                         | hour.            |                    |
| COOLING ONLY                                                                                | <u>*</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                         | 1 HOUR<br>6 HOUR               |                           | After cooling is stopped is 0<br>After cooling is stopped is 0 | OFF, the fan perform extra<br>OFF, the fan perform extra     | operation for an hou<br>operation for six hou | ur.<br>urs.      |                    |
| INDIVIDUAL                                                                                  | If you input signal into CnT of the indoor printed circuit board from external, to indoor unit will be appreciated indoor printed circuit board from external, to the input from external.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | he * 15 * FAN REMAINING                 | IND REMAINING                  |                           | J                                                              |                                                              |                                               |                  |                    |
| FOR ALL UNITS                                                                               | indoor unit will be operated independently according to the input from exter<br>If you input into CNT of the indoor printed circuit board from external, all units whic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | h                                       | 0.5 HOUR                       | 4                         | Ifter heating is stopped or                                    | heating thermostat is OFF<br>heating thermostat is OFF       | the fan nerform extr                          | a operation fo   | or half an hour.   |
| 17 ROOM TEMP INDICATION SET                                                                 | connect to the same remote control are operated according to the input from exten                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | nal.                                    | 2 HOUR<br>6 HOUR               |                           | After heating is stopped or                                    | heating thermostat is OFF<br>heating thermostat is OFF       | the fan perform extr                          | a operation fo   | or two hours.      |
|                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | * 16 × FAN INTERMITTENCE                |                                | '                         | we wearing is stopped of                                       | reasing thermostat is OFF                                    | , чте тап реполіт ехі                         | a operation to   | ioi alt fiuura.    |
| INDICATION OFF                                                                              | In normal working indication, indoor unit temperature is indicated instead of air fl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ow.                                     | NO REMAINING                   |                           | During heating is stopped of                                   | or heating thermostat is OF                                  | F, the fan perform ir                         | ntermittent op   | eration for five r |
| INDICATION OFF                                                                              | (Only the master remote control can be indicated )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1                                       | zom nUhh sminUh                | · v                       | with low fan speed after two                                   | enty minutes' OFF.                                           |                                               |                  |                    |
| INDICATION OFF<br>INDICATION ON<br>18 W@INDICATION                                          | (Only the master remote control can be indicated.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         |                                |                           |                                                                |                                                              |                                               |                  |                    |
| INDICATION OFF                                                                              | (Only the master remote control can be indicated.)  Heating preparation indication should not be indicated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                         | sminOFF sminON                 | V                         | During heating is stopped on<br>with low fan speed after five  | e minutes' OFF.                                              | F, the fan perform ir                         | itermitterit opr |                    |
| INDICATION OFF<br>INDICATION ON<br>18   %@INDICATION  <br>INDICATION ON                     | Heating preparation indication should not be indicated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | * 17 PRESSURE CONTROL                   | י ר                            | v                         | vith low fan speed after five                                  | e minutes' OFF.                                              |                                               |                  |                    |
| INDICATION OF<br>INDICATION ON<br>18 WOMMULTION<br>INDICATION ON<br>INDICATION OF           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | * 17 PRESSURE CONTROL                   |                                | v                         | vith low fan speed after five                                  | a minutes' OFF.                                              |                                               |                  |                    |

\* \* The mark cannot use SHR series. \* \* \* The mark cannot use SRF and SRR series.



- During setting, if you press (RESET) button, you return to the previous screen.
- Setting is memorized in the control and it is saved independently of power failure.

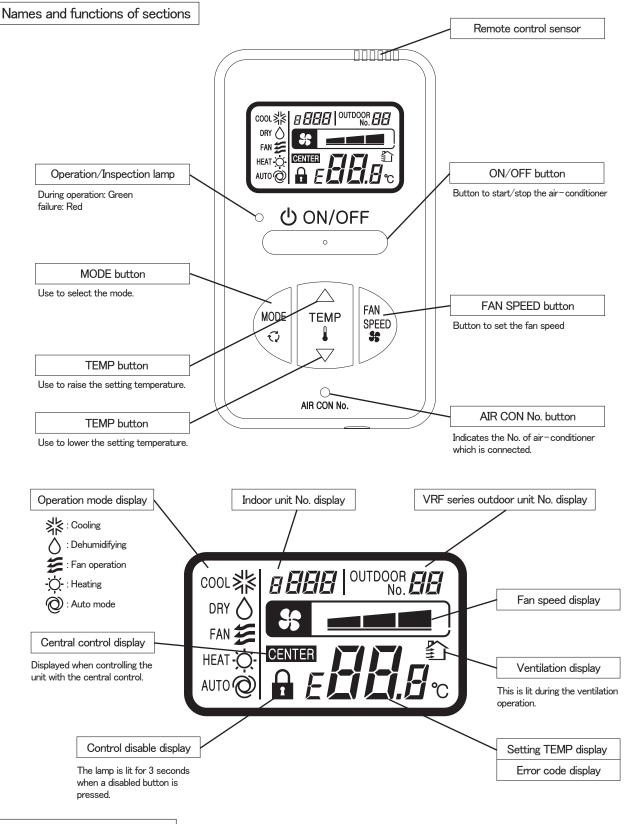
#### [How to check the current setting]

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 igvee ", the setting of the lowest number indoor unit is displayed.)

### 12.2 Simple wired remote control (RCH-E3)

PJZ000Z272



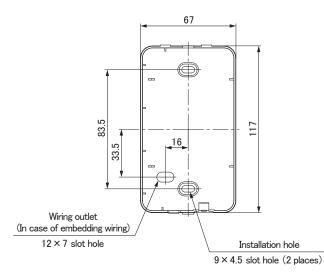
#### Installation of remote control

(1) Places exposed to direct sunlight

Do not install the remote control at the following places in order to avoid malfunction.

- (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(6) Uneven surface
  - 261 -



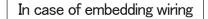


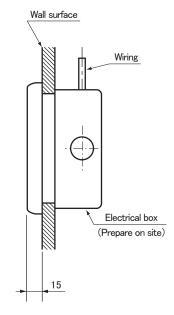
Note: Installation screw for remote control M4 screw (2 pieces)



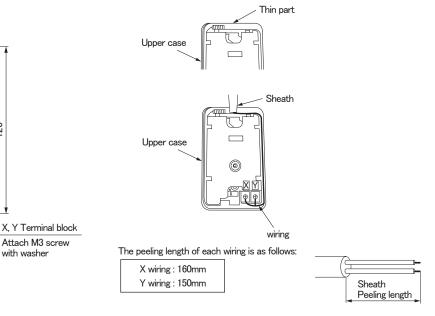
0.3mm<sup>2</sup> × 2 cores

LCD





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.



## Wiring specifications

(1) Wiring of remote control should use  $0.3 \text{mm}^2 imes 2$  cores wires or cables. (on-site configuration)

(2) Maximum prolongation of remote control wiring is 600m.

心 ON/OFF

70

FAN Spee

0

Q Q

If the prolongation is over 100m, change to the size below.

But, the wiring in the remote control case should be  $0.3 \mbox{mm}^2$  (recommended) to  $0.5 \mbox{mm}^2.$ 

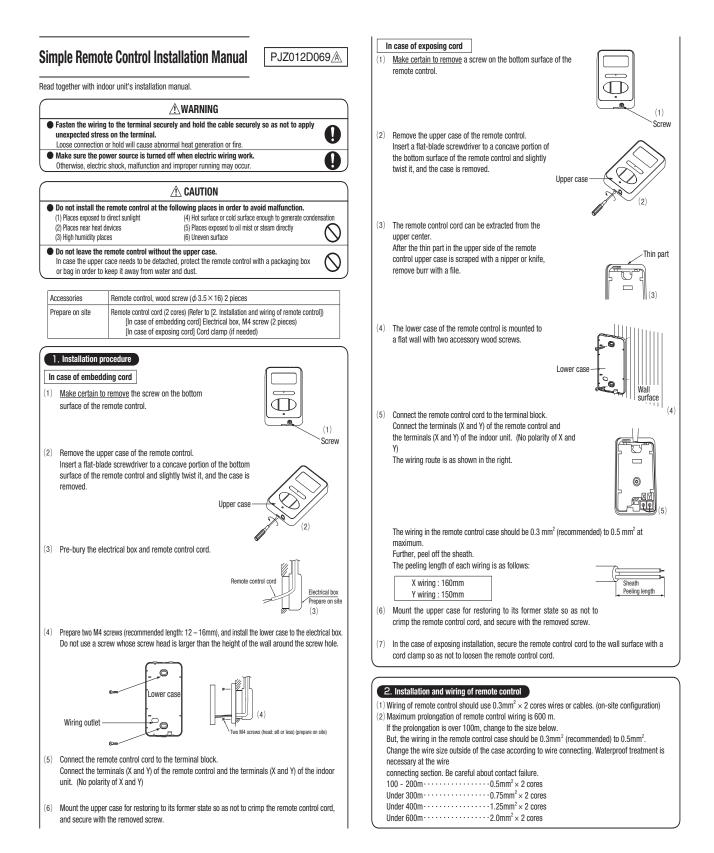
120

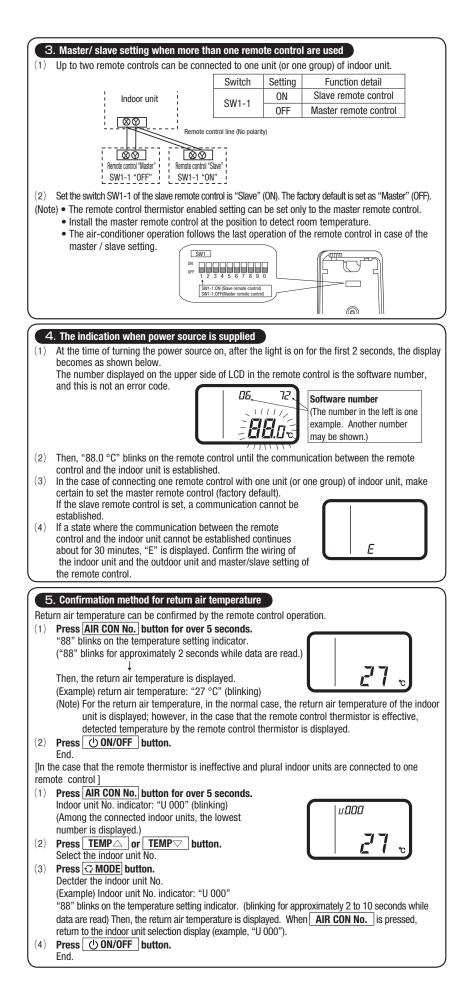
Change the wire size outside of the case according to wire connecting. Waterproof treatment is necessary at the wire connecting section. Be careful about contact failure.

| Length      | Wiring thickness              |
|-------------|-------------------------------|
| 100 to 200m | 0.5mm <sup>2</sup> × 2 cores  |
| Under 300m  | 0.75mm <sup>2</sup> × 2 cores |
| Under 400m  | 1.25mm <sup>2</sup> × 2 cores |
| Under 600m  | 2.0mm <sup>2</sup> × 2 cores  |

Adapted to **RoHS** directive

Unit:mm





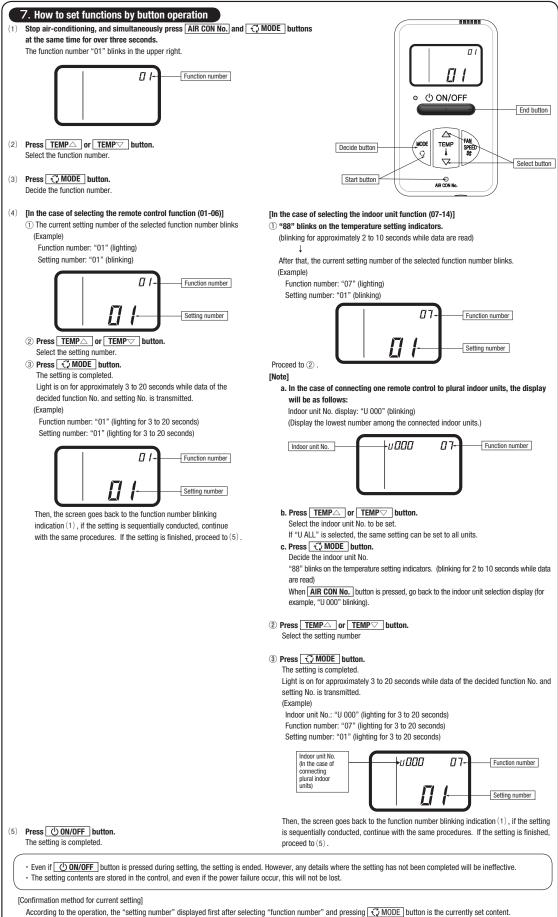
6. Function setting Each function of the remote control and the indoor unit is automatically set to the initial setting, which is the standard use, on the occasion of connecting the remote control with the indoor unit. In the case of the standard use, the setting change is unnecessary. However, if you whould like to change the initial setting "  $\bigcirc$  ", change the setting for only the item of the function number. <u>Record the setting contents and stored them</u>.

#### $(1) \quad \mbox{Function setting item by switch on PCB} \\$

|   | (1) Function | n setting ite | em by switch on PCB                |                 |             |         |                                |                 |                                                                                           |
|---|--------------|---------------|------------------------------------|-----------------|-------------|---------|--------------------------------|-----------------|-------------------------------------------------------------------------------------------|
|   | Switch No.   | Setting       | Setting detail                     | Initial setting | Switch No.  | Setting | Setting detail                 | Initial setting |                                                                                           |
|   | SW1-1        | ON            | Slave remote control               |                 | SW1-5       | ON      | "TEMP" button prohibited       |                 |                                                                                           |
|   | 3001-1       | OFF           | Master remote control              | 0               | SW1-5       | OFF     | "TEMP" button enabled          | 0               |                                                                                           |
|   | SW1-2        | ON            | Remote control thermistor enabled  |                 | SW1-6       | ON      | "FAN SPEED" button prohibited  | * Note 1        | <b>O</b>                                                                                  |
|   | 3001-2       | OFF           | Remote control thermistor disabled | 0               | 3W1-0       | OFF     | "FAN SPEED" button enabled     | * Note 1        |                                                                                           |
|   | SW1-3        | ON            | "MODE" button prohibited           |                 | SW1-7       | ON      | Auto restart function enabled  |                 | As for the slave remote control, function setting is impossible other                     |
|   | 3001-3       | OFF           | "MODE" button enabled              | 0               | SW1-7       | 0FF     | Auto restart function disabled | 0               | than SW1-1.                                                                               |
| 1 | SW1-4        | ON            | "ON/OFF" button prohibited         |                 | SW1-8, 9, 0 | ON      | Not used                       |                 | <ul> <li>In the indoor unit with only one fan speed, "FAN SPEED" button cannot</li> </ul> |
|   | 3W1-4        | OFF           | "ON/OFF" button enabled            | 0               | SW1-0, 9, 0 | OFF     | Nutuseu                        |                 | be enabled.                                                                               |

#### $(\mathbf{2}) \quad \text{Function setting item by button operation} \\$

| Classification                                              | runction                                                   | No. Funct                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                                                      | Initial setting                                                                             | The fee enced 1. 11. 1                                                                                                                          |                                                                                                                                                                                                                                                        | emarks                                                                |                                   |
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Fan speed: three steps                                                                                                                                                                                                                                                                                                       | ※ Note 1                                                                                    | The fan speed is three steps, a                                                                                                                 |                                                                                                                                                                                                                                                        |                                                                       |                                   |
|                                                             | 01                                                         | Indoor unit fa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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                                                      | ※ Note 1                                                                                    | The fan speed is two steps, #                                                                                                                   |                                                                                                                                                                                                                                                        |                                                                       |                                   |
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                                                      |                                                                                             | The fan speed is two steps, #                                                                                                                   |                                                                                                                                                                                                                                                        |                                                                       |                                   |
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                                                      | * Note 1                                                                                    | The fan speed is fixed to one s                                                                                                                 | lep.                                                                                                                                                                                                                                                   |                                                                       |                                   |
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                                                      |                                                                                             | At the time of ecoling in the                                                                                                                   | ase of remote control thermistor ena                                                                                                                                                                                                                   | abled offect temperature -t - 0.4                                     | 100                               |
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|                                                             | Remote control<br>03 thermistor at the tin                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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                                                      | abled, offset temperature at -1.0<br>abled, offset temperature at -2.0                      |                                                                                                                                                 |                                                                                                                                                                                                                                                        |                                                                       |                                   |
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                                                      | 0                                                                                           | At the time of cooling, in the ci                                                                                                               |                                                                                                                                                                                                                                                        | abieu, onsett temperature at -5.t                                     | 7 G.                              |
| Inction                                                     |                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| unction                                                     |                                                            | Setting temp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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|                                                             | 12                                                         | offset at the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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|                                                             | 13                                                         | Heating fan d                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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Do not set at the tir                                   | ne of the indoor unit thermisto   |
|                                                             |                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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|                                                             | ol " ※ " ir                                                | n the initial setting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| automatic                                                   | ol " ※ " ir<br>ally determ                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| automatic<br>Swith No.                                      | ol " ※ " ir<br>ally determ                                 | n the initial setting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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                                                      | nnected, and t                                                                              | Offset the return air temperatu<br>his is Note 2: Fan sp<br>Fan speed se                                                                        | re of the indoor unit by -2.0 °C.<br>eed of "High speed" setting<br>tting                                                                                                                                                                              | 3t = # # - 3t =                                                       | रेत्र सामी - रेर साम              |
| automatic<br>Swith No.                                      | ol " ※ " ir<br>ally detern<br>o.                           | n the initial setting<br>nined as follows:<br>Function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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                                                      |                                                                                             | Offset the return air temperatu<br>his is Note 2: Fan sp<br>Fan speed se<br>Standard                                                            | re of the indoor unit by -2.0 °C.<br>eed of "High speed" setting<br>tting<br>* • • • • • • • • • • • • • • • • • • •                                                                                                                                   | <b>3:</b>                                                             | Hi — Mid                          |
| automatic<br>Swith No.<br>Function N                        | ol " ※ " ir<br>ally detern<br>o.                           | the initial setting<br>nined as follows:<br>Function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                      | is only one ste                                                                             | Offset the return air temperatu<br>his is Note 2: Fan sp<br>Fan speed se<br>Standard<br>High speed 1                                            | re of the indoor unit by -2.0 °C.<br>eed of "High speed" setting<br>titing<br>% == # - % == - % =<br>Hi - Mid - Lo<br>• 2 UHi - Hi - Mid                                                                                                               | 35 mmm         35 m           Hi         Lo           UHi         Mid |                                   |
| automatic<br>Swith No.<br>Function N                        | ol " ※ " ir<br>ally detern<br>o.                           | n the initial setting<br>nined as follows:<br>Function<br>FAN SPEED" "<br>utton "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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                                                      | is only one ste<br>is two steps or                                                          | Offset the return air temperatu<br>his is Note 2: Fan sp<br>Fan speed se<br>Standard<br>High speed 1<br>Initial setting o                       | re of the indoor unit by -2.0 °C.<br>eed of "High speed" setting<br>tting<br>* • • • • • • • • • • • • • • • • • • •                                                                                                                                   | 35 mmm         35 m           Hi         Lo           UHi         Mid | Hi — Mid                          |
| automatic<br>Swith No.<br>Function N                        | ol " ※ " ir<br>ally determ<br>o                            | the initial setting<br>ined as follows:<br>Function<br>FAN SPEED" "<br>utton F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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                                                      | is only one ste<br>is two steps or<br>eed is three ste                                      | Offset the return air temperatu<br>his is Note 2: Fan sp<br>Fan speed se<br>Standare<br>High speed 1<br>Initial setting o<br>sps Note 3: As for | re of the indoor unit by -2.0 °C.<br>eed of "High speed" setting<br>titing<br>% == # - % == - % =<br>Hi - Mid - Lo<br>• 2 UHi - Hi - Mid                                                                                                               | \$* = # #         \$* =           Hi - Lo         UHi - Mid           | Hi — Mid<br>UHi — Hi              |
| automatic<br>Swith No.                                      | ol " ※ " ir<br>ally detern<br>o. b<br>dion 01              | the initial setting<br>ined as follows:<br>Function<br>FAN SPEED" "<br>utton "<br>idoor unit fan F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                      | is only one ste<br>is two steps or<br>eed is three ste                                      | Offset the return air temperatu<br>his is Note 2: Fan sp<br>Fan speed se<br>Standarr<br>High speed 1<br>Initial setting o<br>PDS Note 3: As for | re of the indoor unit by -2.0 °C.<br>eed of "High speed" setting<br>tting<br>\$                                                                                                                                                                        | 3:                                                                    | Hi — Mid<br>UHi — Hi<br>por unit. |
| automatic<br>Swith No.<br>Function N<br>6                   | ol " ※ " ir<br>ally detern<br>o. b<br>dion 01              | the initial setting<br>ined as follows:<br>Function<br>FAN SPEED" "<br>utton "<br>door unit fan F<br>peed F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| automatic<br>Swith No.<br>Function N<br>6<br>e control func | ol " ※ " ii<br>ally determ<br>-<br>o. b<br>tion 01 Ir<br>s | the initial setting<br>ined as follows:<br>Function<br>FAN SPEED"<br>utton<br>ndoor unit fan<br>F<br>F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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unit fan sp                                           | is only one ste<br>is two steps or<br>eed is three st<br>eed is two step<br>eed is only one | Offset the return air temperatu<br>his is Note 2: Fan speed se<br>Standard<br>High speed 1<br>Initial setting o<br>Note 3: As for<br>But on     | re of the indoor unit by -2.0 °C.<br>eed of "High speed" setting<br>tting<br>4 e e e - \$ e - \$ e<br>Hi - Mid - Lo<br>UHi - Hi - Mid<br>f some indoor unit is "High speed".<br>Juara Indoor unit is received the<br>mater indoor unit is received the | 3:                                                                    | Hi — Mid<br>UHi — Hi<br>por unit. |
| automatic<br>Swith No.<br>Function N<br>6                   | ol " ※ " ir<br>ally determ<br>o.<br>tion 01 Ir<br>s        | n the initial setting<br>inined as follows:<br>Function<br>FAN SPEED" "<br>utton "<br>ndoor unit fan F<br>peed F<br>Auto" operation "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| automatic<br>Swith No.<br>Function N                        | ol " ※ " ir<br>ally determ                                 | n the initial setting<br>ined as follows:<br>Function<br>FAN SPEED"<br>utton<br>ndoor unit fan<br>peed<br>F<br>Auto" operation<br>etting<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan<br>teting<br>fan | FAN SPEED<br>FAN SPEED<br>an speed:<br>an speed:<br>an speed:<br>an: one ste<br>Auto" oper | 06<br>07<br>pending upon the<br>Setting<br>1° button prohibited<br>2° button enabled<br>three steps (Hi-Lo)<br>two steps (H | Return air temperature offset -2.0 °C<br>indoor unit and the outdoor unit to be co<br>Product model<br>Product model whose indoor fan speed<br>Steps<br>Product model whose indoor unit fan sp<br>Product model whose indoor unit fan sp<br>Product model whose indoor unit fan sp<br>Product model whose indoor unit fan sp | is only one ste<br>is two steps or<br>eed is three st<br>eed is two step<br>eed is only one | Offset the return air temperatu<br>his is Note 2: Fan speed se<br>Standard<br>High speed 1<br>Initial setting o<br>Note 3: As for<br>But on     | re of the indoor unit by -2.0 °C.<br>eed of "High speed" setting<br>tting<br>4 e e e - \$ e - \$ e<br>Hi - Mid - Lo<br>UHi - Hi - Mid<br>f some indoor unit is "High speed".<br>Juara Indoor unit is received the<br>mater indoor unit is received the | 3:                                                                    | Hi — Mid<br>UHi — Hi<br>por unit. |



## 12.3 Wireless kit (FDTC only)

• FDTC series (RCN-TC-5AW-E3)

## PJF012D506B

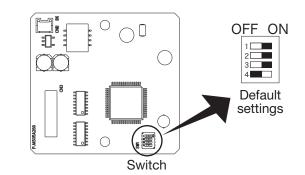
## Safety precautions •Please read this manual carefully before starting installation work to install the unit properly. All of the following are important information to be observed strictly. AWARNING Failure to follow these instructions properly may result in serious consequences such as death, severe 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 symbols are used in the text. 0 $\bigcirc$ 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 the new owner. 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.

|             |                                                                                                                                                                    |                                                                                             |                                                    |                                                                                                               | ING                                                             |                                                               |                                                                                                                                         |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
|             |                                                                                                                                                                    |                                                                                             |                                                    | <b>t with water.</b><br>shocks, fire, or break-d                                                              | own.                                                            |                                                               |                                                                                                                                         |
|             | electronic                                                                                                                                                         | parts f                                                                                     | ror                                                | ables for wiring, and<br>n external forces.<br>or fixing could cause he                                       |                                                                 |                                                               | em securely with care to protect<br>on, fire, etc.                                                                                      |
| 0           | <b>measures</b><br>It could cau<br>power gene<br>The influence                                                                                                     | to supp<br>use male<br>rator, hi<br>ces trar                                                | <b>pre</b><br>Ifun<br>igh<br>ism                   | <b>ss electric noises.</b><br>ction or break-down c<br>frequency medical equi                                 | lue to<br>pment<br>contro                                       | hazar<br>, radic<br>to m                                      | dous effects on the inverter, private<br>communication equipment, etc.<br>redical or communication equipment<br>use noise interference. |
|             |                                                                                                                                                                    |                                                                                             |                                                    | note control with its<br>c. enter through the hole,                                                           |                                                                 |                                                               | removed.<br>se electric shocks, fire or break-down.                                                                                     |
|             |                                                                                                                                                                    |                                                                                             |                                                    | <b>≜</b> CAUT                                                                                                 | ION                                                             |                                                               |                                                                                                                                         |
| $\bigcirc$  | <ul> <li>It could cau</li> <li>(1) Places e</li> <li>(2) Places r</li> <li>(3) High hui</li> <li>(4) Hot surf</li> <li>(5) Places e</li> <li>(6) Uneven</li> </ul> | ise brea<br>exposed<br>near hea<br>midity p<br>face or c<br>e conde<br>xposed to<br>surface | k-d<br>l to<br>at-g<br>lac<br>cold<br>nsa<br>o oil | own or deformation of 1<br>direct sunlight (8)<br>enerating devices<br>es<br>I surface enough to (9)<br>ttion | emote<br>Place<br>fluore<br>type)<br>Place<br>rays (<br>) Place | contr<br>s whe<br>scent<br>or sur<br>s whe<br>of any<br>s whe | ere the receiver is influenced by<br>t lamp (especially inverter                                                                        |
|             | essorie                                                                                                                                                            |                                                                                             |                                                    | all of the following acce                                                                                     | sporior                                                         |                                                               |                                                                                                                                         |
| 1) Receiver |                                                                                                                                                                    |                                                                                             | 1                                                  | 5 Bracket mounting screw                                                                                      | esones<br>A                                                     |                                                               | Wireless remote control (RCN-E2)                                                                                                        |
| 2 PCB       |                                                                                                                                                                    |                                                                                             | 1                                                  | 6 Wiring (For communication)                                                                                  |                                                                 | 1                                                             | ② Remote control holder     1       ③ Screw for holder     ③ 2                                                                          |
| ③ PCB mour  | nting support                                                                                                                                                      |                                                                                             | 2                                                  | ⑦ Wiring (For receiving)                                                                                      | $\overline{\bigcirc}$                                           | 1                                                             | ④ AAA dry cell battery (LR03) © 2                                                                                                       |
| ④ Bracket ( | Sheet metal)                                                                                                                                                       |                                                                                             | 1                                                  | 8 Installation manual                                                                                         |                                                                 | 1                                                             | (5) User's manual                                                                                                                       |
|             |                                                                                                                                                                    |                                                                                             |                                                    | 9 Parts set                                                                                                   |                                                                 | 1 -                                                           |                                                                                                                                         |
|             |                                                                                                                                                                    |                                                                                             |                                                    |                                                                                                               |                                                                 |                                                               |                                                                                                                                         |
| _           |                                                                                                                                                                    | n bef                                                                                       | or                                                 | e installation                                                                                                |                                                                 |                                                               |                                                                                                                                         |
| Setting o   |                                                                                                                                                                    | he follov                                                                                   | wing                                               | a switches to set the fu                                                                                      | nctions                                                         | : Def                                                         | ault setting is shown with mark.                                                                                                        |
|             |                                                                                                                                                                    |                                                                                             |                                                    | -                                                                                                             |                                                                 |                                                               | : Normal OFF : Remote                                                                                                                   |
| sw1         |                                                                                                                                                                    |                                                                                             |                                                    |                                                                                                               |                                                                 |                                                               |                                                                                                                                         |
|             | Receiver ma                                                                                                                                                        |                                                                                             | ve s                                               | etting                                                                                                        |                                                                 | ON                                                            | : Master OFF : Slave                                                                                                                    |
| SW1         |                                                                                                                                                                    |                                                                                             | ve s                                               | etting                                                                                                        |                                                                 |                                                               | : Master OFF : Slave                                                                                                                    |

## 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
④ Wireless remote control.

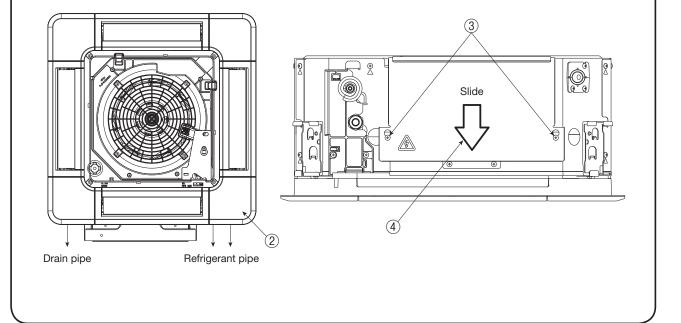
\*For the receivable area of the signal, refer to (5) Receiver .

## 3 How to install the receiver

It is possible to install the receiver by replacing the corner lid on the panel.

### Preparation before installation

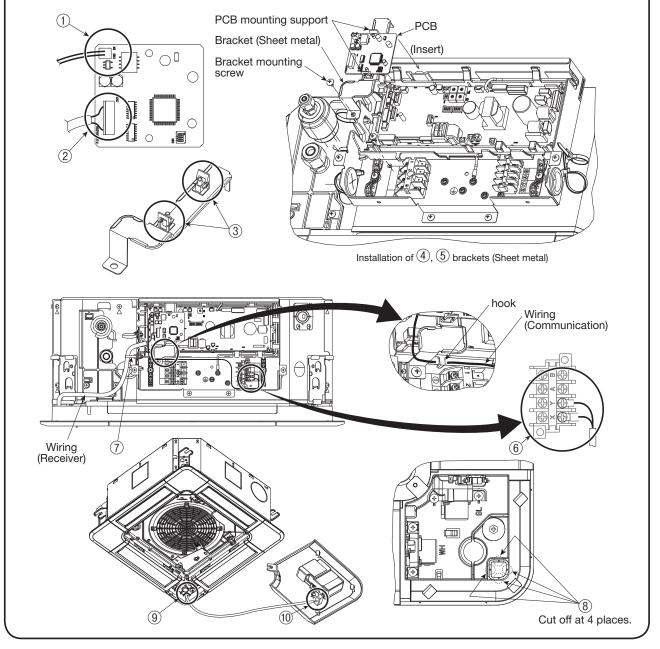
- ① Remove the inlet grille according to the installation manual of the panel.
- ② Remove the corner lid at the refrigerant pipe side.
- ③ Loosen screws (2 pcs.) on the control box of the unit.
- ④ Slide the control lid in the arrow direction, and remove it.

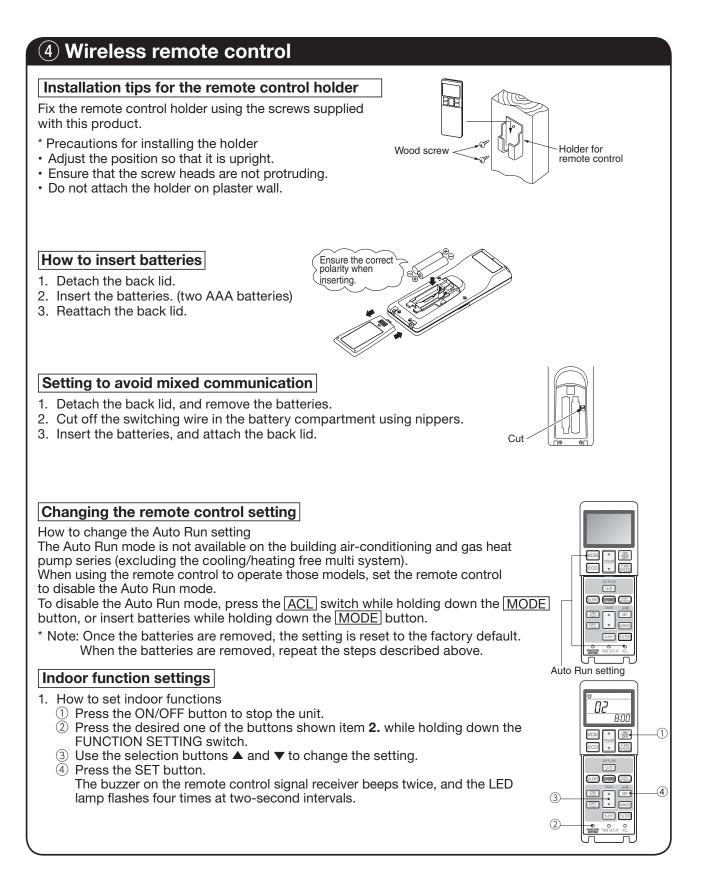


## **③** How to install the receiver(continued)

### 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.
- (1) Connect connectors of the wiring (Communication) and the receiver.
- (1) Install the receiver on the panel according to the installation manual of the panel.
- 1 Install the control box lid with care not to pinch wires, and fix with screws (2 pcs.).





## (4) Wireless remote control (continued)

2. Setting details The following functions can be set.

| Button           | Number indicator | Function setting                                                           |
|------------------|------------------|----------------------------------------------------------------------------|
|                  | 00               | Fan speed setting : Standard                                               |
| FAN SPEED        | 01               | Fan speed setting : Setting 1 *                                            |
|                  | 02               | Fan speed setting : Setting 2 *                                            |
|                  | 00               | Room heating temperature adjustment : Disable                              |
| MODE             | 01               | Room heating temperature adjustment : +1°C                                 |
| IVIODE           | 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/D              | 00               | Anti draft setting : Disable                                               |
| (Up/Down) 01     |                  | Anti draft setting : Enable                                                |
|                  | 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                  |
|                  | 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                              |
|                  | 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                              |
|                  | 01               | Heating fan residual-period running : 0.5 hours                            |
| OFF TIMER        | 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<br>SETBACK | 01               | Remote control signal receiver LED : Brightness Low                        |
| SEIDAUN          | 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.

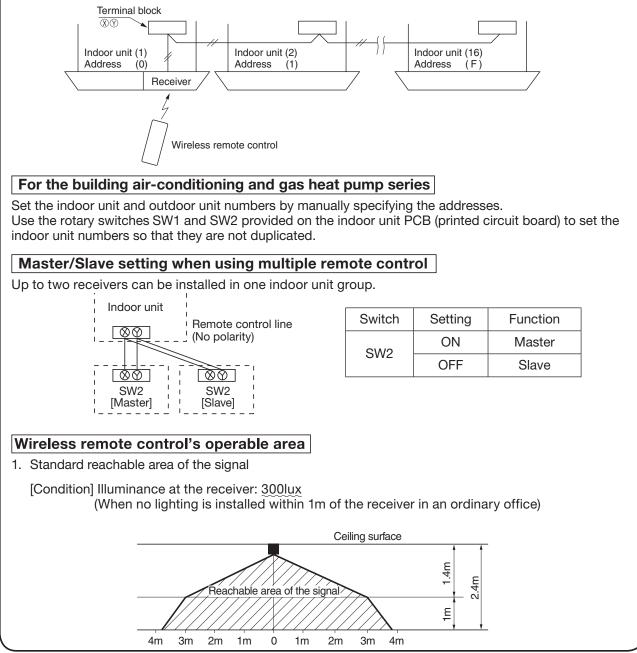
- 1. Connect the XY terminal with 2 cores wire. As for the size, refer to the note on the right.
- For Packaged air-conditioner series, set the indoor unit address with SW2 on the indoor unit PCB from [0] to [F] so as not to duplicate.

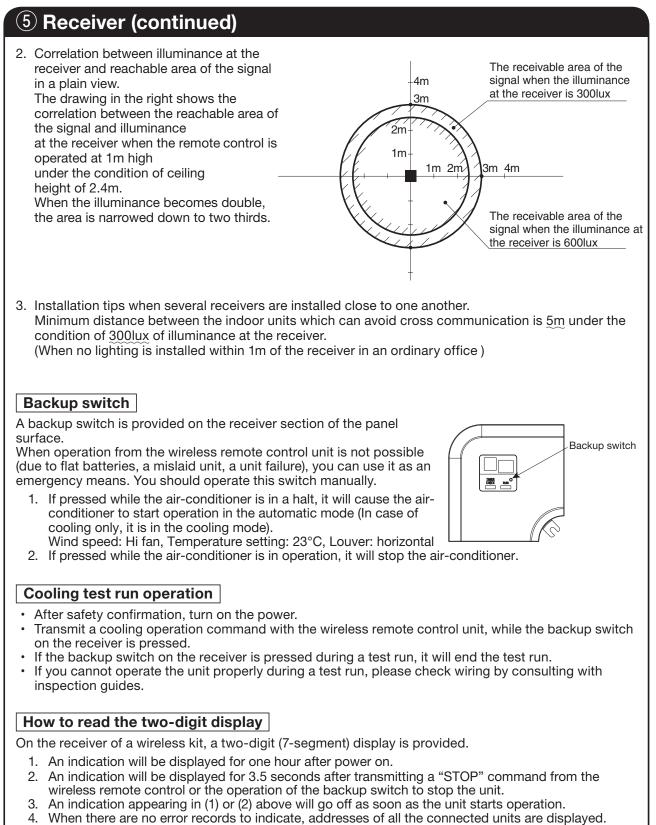
Restrictions on the thickness and length of wire (Maximum length is 600m.) Standard Within  $0.3 \text{ mm}^2 \times 100 \text{m}$ 

| Within | 0.5 mm <sup>2</sup> × 200m             |
|--------|----------------------------------------|
| Within | 0.75mm <sup>2</sup> × 300m             |
| Within | 1.25mm <sup>2</sup> × 400m             |
| 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.



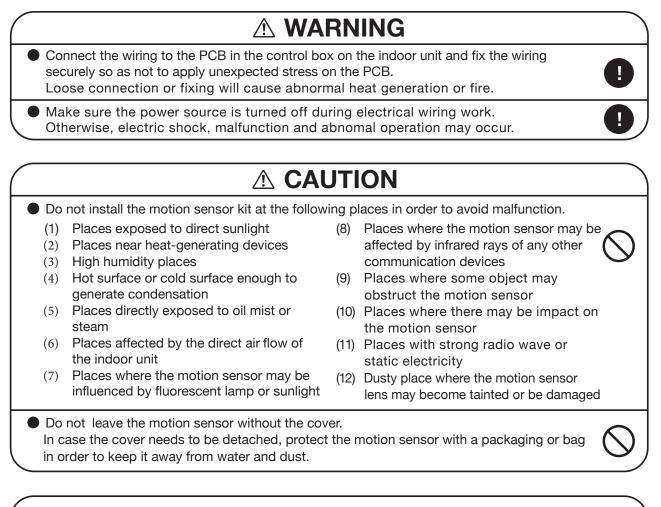


- 5. When there are some error records remaining, the error records are displayed.
- 6. Error records can be cleared by transmitting a "STOP" command from the wireless remote control, while the backup button is pressed.

## 12.4 Motion sensor kit (FDTC only)

(1) FDTC series (LB-TC-5W-E)

PJF012D504



## 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

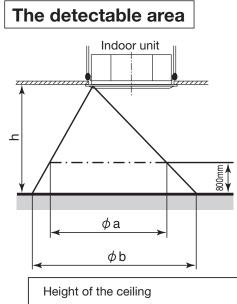
Please make sure that all components are in the package.

Motion sensor

1

## (2) Installing the motion sensor

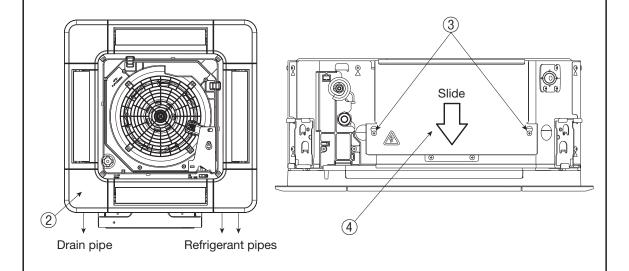
It is possible to install the motion sensor by replacing the corner lid on the panel.



| Height of the ceiling          | h[m]        | 2.7       | 3.5       | 4.0       |
|--------------------------------|-------------|-----------|-----------|-----------|
| Detectable area                | $\phi$ a[m] | about 4.5 | about 6.4 | about 7.6 |
| Detectable area <sup>(2)</sup> | $\phi$ b[m] | about 6.4 | about 8.3 | about 9.5 |

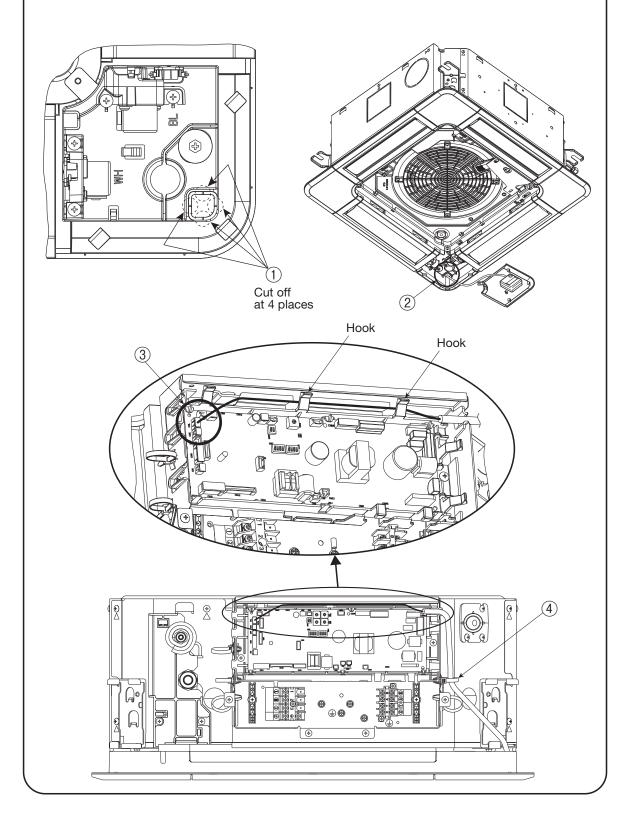
## Preparation before installation

- 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.
- (6) 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

PJZ012A164

# SAFETY PRECAUTIONS

# 

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.

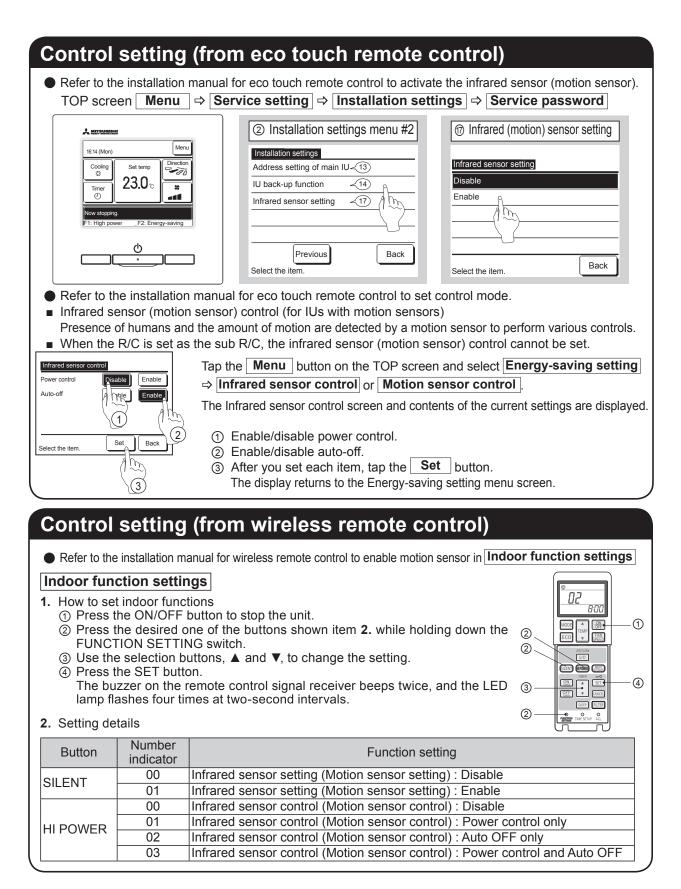
This product uses infrared sensor to detect person's activity level to support control of air-conditioner. Please set the control you like from the remote control.

| Indoor unit control               | Detective situation           | Description of control                                  | Display of eco touch<br>remote control |
|-----------------------------------|-------------------------------|---------------------------------------------------------|----------------------------------------|
| 1 Power control                   | Activity level is large       | Lower the indoor temperature setting for comfort.       | Power control ON                       |
|                                   | 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                       |
| No one is detected for 12 hou     |                               | Stop operation                                          | -                                      |
| 1+2                               | Any combination of the above  | Any of the above                                        | Any of the above                       |
| All disabled<br>(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
- 2020 (Tue) Heating ☆ Timer ② 23.0 ℃ t t Timer Power control ON F1: High power F2: Energy-saving
  - 16:32 (Mon) Cooling Set temp 23.0 °C Immer O In auto-off mode F1: High power F2: Energy-saving
- 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.



## 12.5 Interface kit (SC-BIKN2-E)

Accessories included in package

Be sure to check all the accessories included in package.

ON\*\*

OFF

SW2-2

\*\* Factory setting

Wired remote control : Enable

Wired remote control : Disable

% When RC-EX3A is connected, please use SC-BIKN2-E by all means.

### RKZ012A099

Before use, please read these Safety precautions thoroughly

before installation.

•All the cautionary items mentioned below are important safety related items to be taken

#### No. Part name Quantity into consideration, so be sure to observe them at all times. 1 Indoor unit's connection cable (cable length: 1.8m) 1 Incorrect installation could lead to serious consequences such as death, major A Warning 2 Wood screws (for mounting the interface: $\phi 4x 25$ ) 2 injury or environmental destruction. 3 Tapping screws (for the cable clump and the interface mounting bracket) 3 • Symbols used in these precautions 4 Interface mounting bracket 1 Always go along these instruction. 5 Cable clamp (for the indoor unit's connection cable) 1 6 CnT terminal connection cable (total cable length: 0.5m) 1 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. ∕₹∖ Warnings Installation must be carried out by a qualified installer. Į 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. Ouse 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 Wiring inlet (top or back) ③ Fix the cable with the (1)Remove the upper case of the interface. cable clamp • Remove 2 screws from the interface casing before removal of upper casing. (2)Connect the indoor unit's (2)Connect the indoor unit's connection cable to the interface. connection cable Connect the connector of the indoor unit connection cable to the connector on the interface's circuit board. ③Fix the indoor unit's connection cable with the cable clamp. Ø • 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. (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. (1)Remove Clamp the connection cable to the indoor control box securely with the cable clamp the upper provided as an accessory. case Regarding the cable connection to the indoor unit, refer to the installation manual for indoor unit. Name of each part of the interface Clamp for clamping indoor ROM terminal unit's connection cable (**4**) Interface board DIP switch (SW2) : [Factory setting : all ON] Terminal for indoor unit's DIP switch (SW3) : [Factory setting : all OFF] connection cable Terminal block for wired Rotary switch (SW1) for address setting remote control\* CnT terminal Terminal block for Superlink E board (SC-ADNA-E)\* 0 Clamp for clamping the connection cable for Clamp for clamping the connection **F** Superlink E board (SC-ADNA-E)\* cable for wired remote control\* \*Either the connection cables of Superlink E board (SC-ADNA-E) or of wired remote control is connectable. Setting Switch Function Switch Setting Function ON\*\* CnT level input External input (CnT input) **ON\*\*** SW2-1 SW2-3 OFF CnT pulse input OFF Operation permission/prohibition (CnT input)

Safety precautions

SW2-4

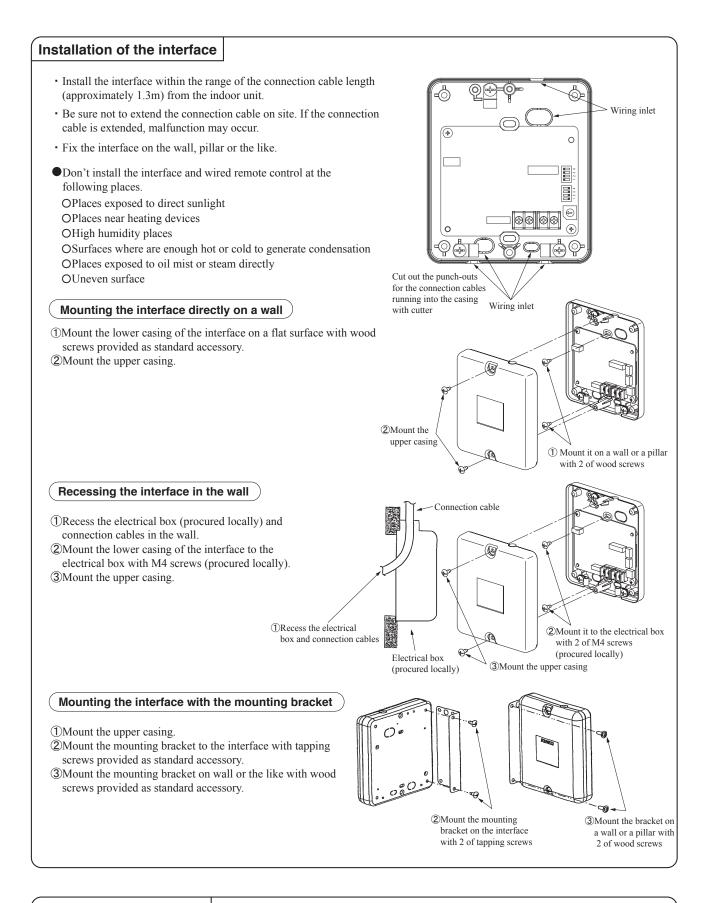
ON\*\*

OFF

Annual cooling : Enable\*\*\*

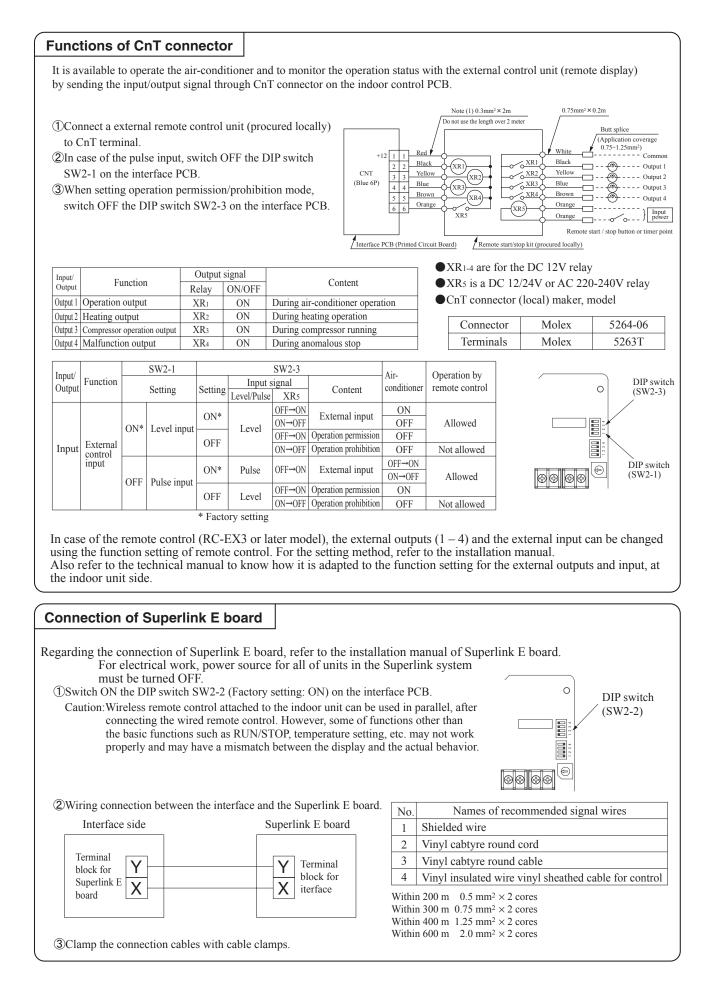
Annual cooling : Disable\*\*\*

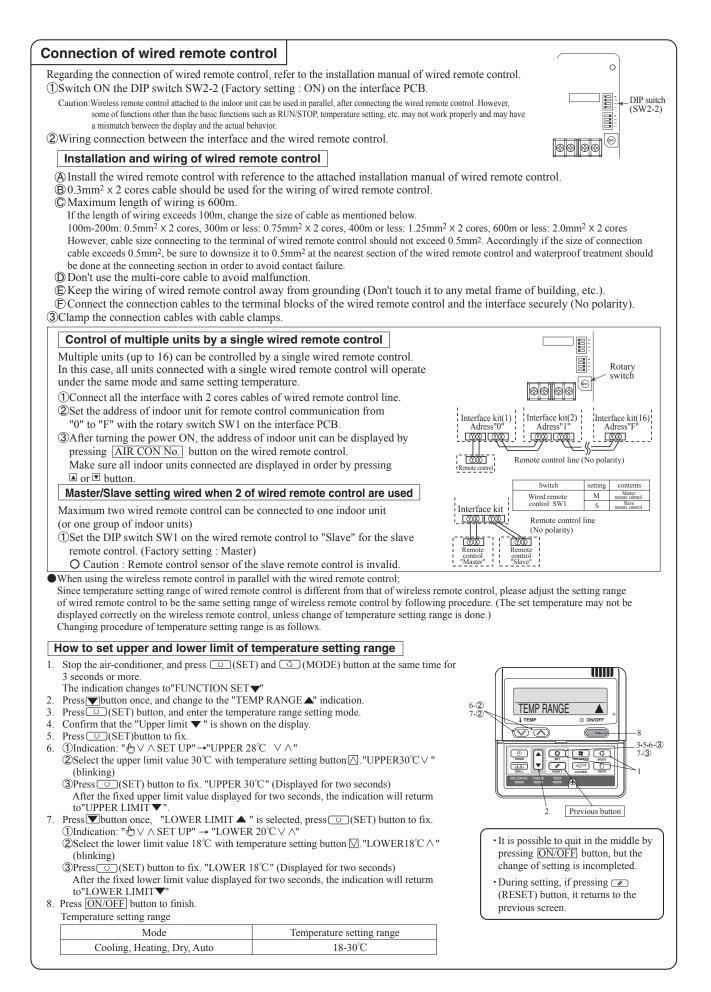
\*\*\* Indoor fan control at low outdoor air temperature in cooling



### 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?





## 12.6 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<u>A</u>" and "Caution<u>A</u>". The "Warning<u>A</u>" group includes items that may lead to serious injury or death if not observed. The items included in the "Caution<u>A</u>" 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.

## tion manual. Instruct the customer to keep this installation instruction for future reference.

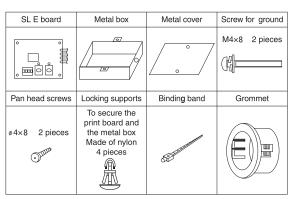
#### ∕∆Warning

- 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.
- ustomer, 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.

#### 1 Application

Indoor-to-outdoor three core communication specification type 3 (since October 2007)

#### 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.

#### 4 Control switching

Settings can be changed by the DIP switch SW3 on the SL E board as in the following.

| Switch | Symbol | Switch        | Remarks                                                                       |
|--------|--------|---------------|-------------------------------------------------------------------------------|
|        |        | ON            | Master                                                                        |
|        | 1      | OFF (default) | Slave                                                                         |
|        |        | ON            | Fixed previous protocol                                                       |
|        | 2      | OFF (default) | Automatic adjustment of Superlink protocol                                    |
| SW3    | 3      | 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"                                           |

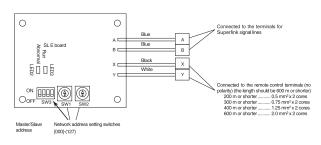
#### 

- 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.
- 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 uncontrollable.
- 4.Where flammable volatile materials such as paint thinner and gasoline may exist or where they are handled. This may cause a fire.

#### 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

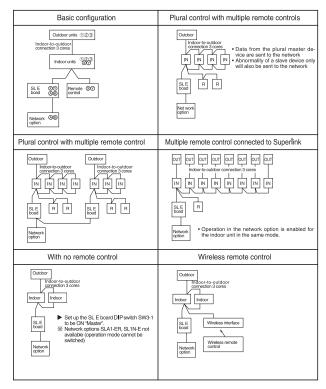
| Communication method         | Previous Superlink         | New Superlink            |
|------------------------------|----------------------------|--------------------------|
| Line type                    | MVVS                       | MVVS                     |
| Line diameter                | 0.75 - 1.25mm <sup>2</sup> | 0.75/1.25mm <sup>2</sup> |
| 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 1500m for 0.75mm<sup>2</sup>, and up to 1000m for 1.25mm<sup>2</sup>. Do not use 2.0mm<sup>2</sup>. It may cause an error.

(\*3) Connect grounding on both ends of the shielding wire. For the grounding method, refer to the section "fe]Installation".

#### PJZ012D029K

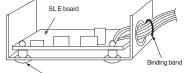
- Set the Superlink network address with SW1 (tens place), SW2 (ones place), and SW3 (hundreds place).
- (2) Set the SL E board SW3-1 to be ON (Master) when using this without any remote control (no wired remote controller nor wireless remote control).
- (3) Set up the plural master/slave device using 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

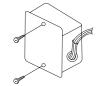
- 1. When using the metal box (mounted on the indoor unit / mounted on the back of the remote control):
  - (1) Mount the SL E board in the metal box using the locking supports.
  - (2) Wiring should go through the provided grommet since then through the wiring to the hole on the Metal box.

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.

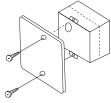


When installed outside the indoor unit, put the metal cover on.

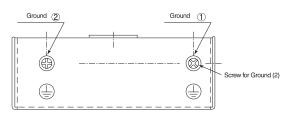
Locking supports (4)



▲ When installed on the back of the remote control, mount it directly on the remote control bottom case.



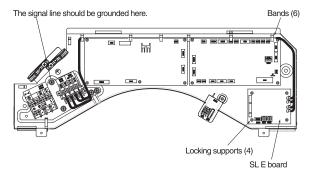
Connect grounding. Connect grounding for the power line to Ground (1), and grounding for the signal line to Ground (2) or to the Ground on the indoor unit control box.



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 screwdriver.

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  $40^{\circ}$ 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 board LEDs  |          |                                                                                                                                                                                                                                                                                                               | Display on the                       |
|------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Red              | Green    | Inspection mode                                                                                                                                                                                                                                                                                               | integrated network<br>control device |
| Off              | Flashing | Normal communication                                                                                                                                                                                                                                                                                          |                                      |
| Off              | Off      | <ul> <li>Disconnection in the remote control communication line (X or Y)</li> <li>Short-circuit in the remote control communication line (between X and Y)</li> <li>Faulty indoor unit remote control power</li> <li>Faulty remote control communication circuit</li> <li>Faulty CPU on SL E board</li> </ul> | No<br>corresponding<br>unit number   |
| One flash        | Flashing | <ul> <li>Disconnection in the Superlink signal<br/>line (A or B)</li> <li>Short-circuit in the Superlink signal<br/>line (between A and B)</li> <li>Faulty Superlink signal circuit</li> </ul>                                                                                                                |                                      |
| Two<br>flashes   | Flashing | Faulty address setting for the SL E<br>board<br>(Set up the address for<br>previous SL E board : more than 48<br>new SL E board : more than 128)                                                                                                                                                              |                                      |
| Three<br>flashes | Flashing | <ul> <li>SL E board parent not set up when used<br/>without a remote control</li> <li>Faulty remote control communication circuit</li> </ul>                                                                                                                                                                  | E1                                   |
| Four<br>flashes  | Flashing | <ul> <li>Address overlapping for the SL E board<br/>and the Superlink network connected<br/>indoor unit</li> </ul>                                                                                                                                                                                            | E2                                   |
| Off              | Flashing | <ul> <li>Number of connected devices exceeds the<br/>specification for the multiple indoor unit control</li> </ul>                                                                                                                                                                                            | E10                                  |

## 12.7 Ceiling concealed type (SRR) option parts

### (1) Bottom air inlet kit

This manual contains installation points for BOTTOMAIR INLET KIT manufactured by MHI. Carry out the work following the instructions below. Keep this manual properly with USER'S MANUAL provided with the indoor unit.

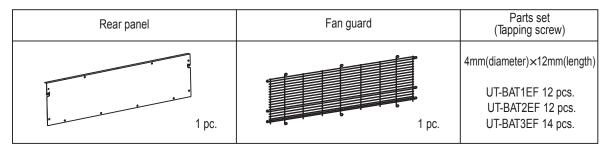
### CAUTION

- 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.
- Be sure to cut off the power and stop the unit before maintenance.

1) Applicable model of unit and type of BOTTOM AIR INLET KIT

| BOTT  | OMAIR INLET KIT | UT-BAT1EF   | UT-BAT2EF | UT-BAT3EF |
|-------|-----------------|-------------|-----------|-----------|
| Model | for FDUT        | 15,22,28,36 | 45,56     | 71        |
| WOUCH | for SRR         | 25,35       | 50,60     |           |

#### 2) Parts list of BOTTOM AIR INLET KIT

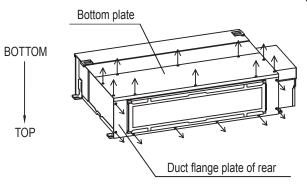


3) Installation Points

(Figure shows the state that the unit is placed on a floor. Top and bottom are inverted after installing the unit.)

(i) Place the unit as shown below.

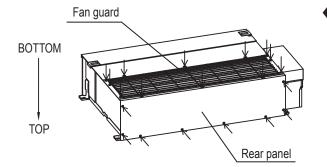
(ii) Remove the bottom plate and duct flange plate of rear from the unit. Keep the removed tapping screws to reuse later.



#### The number of tapping screws to be removed

| Model |             | Bottom  | Rear   |
|-------|-------------|---------|--------|
|       | 15,22,28,36 | 10 pcs. | 8 pcs. |
| FDUT  | 45,56       | 10 pcs. | 9 pcs. |
|       | 71          | 12 pcs. | 8 pcs. |
| SRR   | 25,35       | 10 pcs. | 8 pcs. |
|       | 50,60       | 10 pcs. | 9 pcs. |

(iii) Install rear panel by using removed tapping screws in process(2). Install fan guard by using tapping screws in parts set.



|       | Model       | Fan guard | Rear panel |
|-------|-------------|-----------|------------|
|       | 15,22,28,36 | 12 pcs.   | 8 pcs.     |
| FDUT  | 45,56       | 12 pcs.   | 9 pcs.     |
|       | 71          | 14 pcs.   | 8 pcs.     |
| SRR   | 25,35       | 12 pcs.   | 8 pcs.     |
| SIXIX | 50,60       | 12 pcs.   | 9 pcs.     |

#### (2) Remote sensor kit (SC-THB-E3)

Sensor for return air temperature detection is located in the air inlet of the indoor unit. Use the remote sensor kit SC-THB-E3, and install it on the suitable wall so the temperature of the room can be accurately detected.

This remote sensor kit is to be used as an alternative to the pre-installed sensor of the indoor unit.

#### 1) Accessory parts

| No. | Part name            | Q'ty | No. | Part name    | Q'ty |
|-----|----------------------|------|-----|--------------|------|
| 1   | Sensor box           | 1    | 4   | Band         | 1    |
| 2   | Cable (8m)           | 1    | 5   | Screw (4×16) | 2    |
| 3   | Tape (Double -stick) | 1    |     |              |      |

XInstallation manual in the SC-THB-E3 is not it for SRR\_ZM-S.

#### 2) Selection of installation position

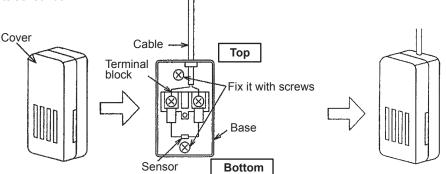
• The thermistor for detecting room temperature is located inside the remote sensor box.

- Do not install the remote sensor in places where.
  - Average room temperature can not be detected.
  - A heat source is located nearby.
  - The wall temperature is different from average room temperature.
  - Affected by the outdoor air when opening / closing the door, etc.
  - The discharge air from indoor unit blows directly.
  - Covered by curtains or other obstacles.
  - Exposed to the sun.
  - Exposed to water, humidity or dew.
- Mount the remote sensor vertically on the wall surface, etc.
- Run the sensor cable in a place where the power cable or electrical noise will not cause any abnormal operation.

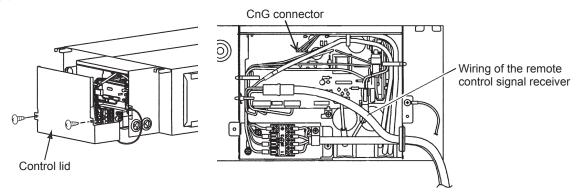
#### 3) Installation procedure

- (a) Insert the tip of slotted screwdriver to the gap between the cover and base of the sensor box (①), and twist it to disassemble.
- (b) Fix the base to the wall with screws (5).
- (c) Connect the cable (2) to the terminal block in the base. (No polarity)
- (d) Attach the cover to the base.

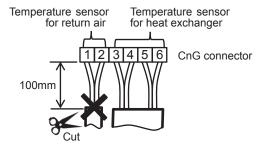
Remote sensor box



(e) Remove the control lid of the indoor unit. Take off CnG connector from PCB of the indoor unit .

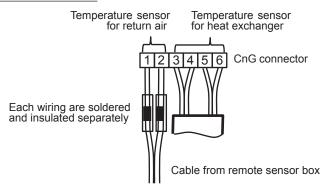


(f) Cut wiring from 1 & 2 pins of CnG connector. (wiring length : about 100 mm from the connector) If the pre-installed return air temperature sensor ASSY is not removed, the end of the sensor wiring should prevent a short circuit by insulating tape etc.



- (g) Insert the cable from remote sensor box to the control box of the indoor unit through the grommet of the remote control signal receiver side.
- (h) Adjust the length of the cable and cut it off. (Connector cable is not need.)
- (i) Connect the cable from remote sensor box and the cut wiring (procedure (f)) of CnG connector. (No polarity)

Be sure to connect the wirings by solder separately. Then, wirings should prevent a short circuit separately by insulating tapes etc. In case of faulty wiring connection, it can cause electrical shock and fire.



- (j) Put CnG connector back on the indoor unit PCB.
- (k) Attach the control lid of the indoor unit.

# 12.8 OA spacer (FDTC only)

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.



OPrepare the duct (size: Ø75) and the booster fan at site.

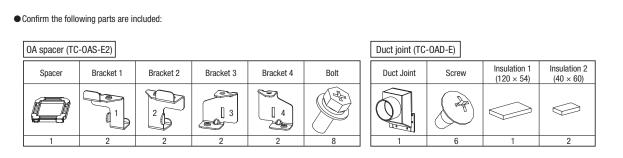
OFor the installation of indoor unit, refer to the installation manual attached to the indoor unit.

## SAFETY PRECAUTIONS

• Read the "SAFETY PRECAUTIONS" carefully first of all and then strictly follow it during the installation work in order to protect yourself.

| <b>∆</b> 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.                                                                                                                                                         |                |
|                                                                                                                                                                                                                           |                |
| <b>ACAUTION</b>                                                                                                                                                                                                           |                |
| • 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. | $\bigcirc$     |
| It could cause the corrosion of heat exchanger, breakage of plastic parts etc. And inflammable gas could cause fire.                                                                                                      | $(\mathbf{V})$ |

## 1 Before installation





- 290 -

Ø75

530 (Suspension bolts pitch)

225

67

bolts pitch) 530 sion b Susper

Duct joint (TC-0AD-E)

02 or

0A s

(TC-OAS-E2)

8

185

175

Control box

354 325

0

Hanger plate fo

suspension bolt

# 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 before intaking.

| Oneration mode | 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<br>60% RH or lower |  |  |  |  |  |
| In cooling     | 29°C DB or lower and<br>80% RH or lower | 20°C DB or higher                         |  |  |  |  |  |

#### (2) Intake outdoor air volume

Intake outdoor air volume is 3.0 m<sup>3</sup>/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.

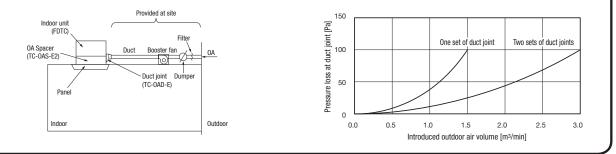
In case one set of duct joint is installed: 1.5 m3/min max. In case two sets of duct joint is installed: 3.0 m3/min max.

#### (3) Selection of booster fan

· Select the booster fan based on the duct resistance plus the pressure loss at the duct joint. (See the figure)

#### (4) Other conditions

- . 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.)

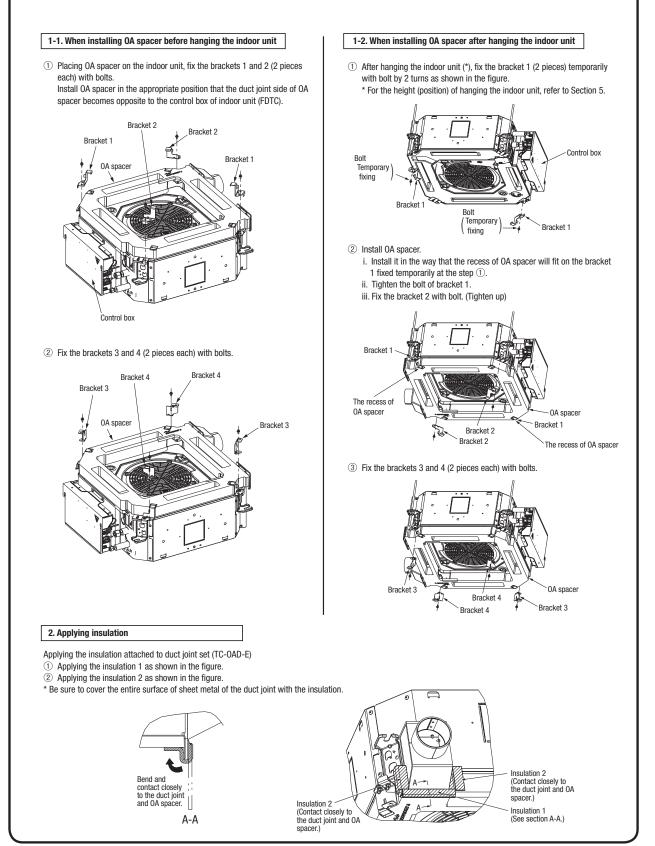


## ③ Installation of duct joint (TC-OAD-E) onto OA spacer

·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. Spacer Spacer To install the duct joint, When installing the duct screw it in as shown at left. joint at the lid side, remove Duct joint the lid and reinstall it at the other end before installing Duct joint Lid Screw the duct joint. -Screw When installing two duct joints Spacer Remove the lid and then install two pieces of duct joint. 1. hi l NO Ø Screw 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.)

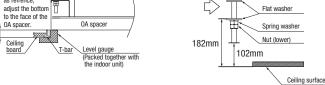


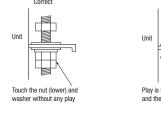
## **(5) Installation of indoor unit**

#### Work procedure

32

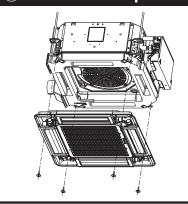
- 1. This units is designed for  $2 \times 2$  grid ceiling.
- If necessary, please detach the T bar temporarily before you install it.
- If it is installed on a ceiling other than  $2 \times 2$  grid ceiling, provide an inspection port on the control box side.
- 2. Arrange the suspension bolt at the 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. Comm 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).







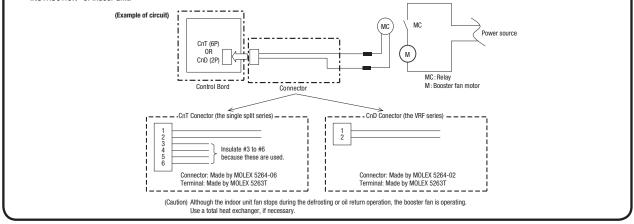
6 Installation of panel



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.

## $\bigcirc$ 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: OV 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.

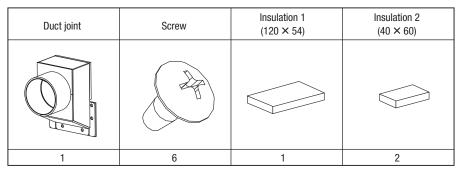


# 12.9 Duct joint (FDTC only)

# PJZ012D073

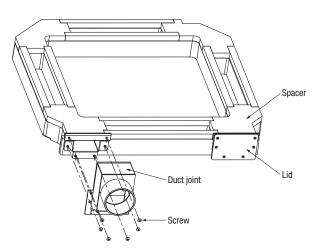
## • This product is used by assembling on the spacer (TC-OAS-E2) **1.Before installation**

• Confirm the following parts are included:



## 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.



# **13. TECHNICAL INFORMATION**

(1) Wall mounted type (SRK)

### Model SRK20ZS-W

| Information to identify the mode<br>Indoor unit model name | el(s) to which the inform<br>SRK20ZS-V       |              | ates to:   | If function includes heating: Indicate<br>information relates to. Indicated values |                    |              |                   |
|------------------------------------------------------------|----------------------------------------------|--------------|------------|------------------------------------------------------------------------------------|--------------------|--------------|-------------------|
| Outdoor unit model name                                    | SRC20ZS-V                                    |              |            | heating season at a time. Include at I                                             |                    |              | 'Average'.        |
|                                                            |                                              |              |            |                                                                                    |                    | -            |                   |
| Function(indicate if present)                              | Yes                                          |              |            | Average(mandatory)                                                                 | Yes                |              |                   |
| cooling<br>heating                                         | Yes                                          |              |            | Warmer(if designated)<br>Colder(if designated)                                     | Yes                |              |                   |
| incoding                                                   | 100                                          |              |            |                                                                                    |                    | -            |                   |
| Item                                                       | symbol                                       | value        | unit       | Item                                                                               | symbol             | value        | class             |
| Design load                                                | Delasiana                                    | 0.00         | 1          | Seasonal efficiency and energy effic                                               |                    | 0.50         | <b>A</b> · · · ·  |
| cooling<br>heating / Average                               | Pdesignc<br>Pdesignh                         | 2.00         | kW<br>kW   | cooling<br>heating / Average                                                       | SEER<br>SCOP/A     | 8.50<br>4.60 | A+++<br>A++       |
| heating / Warmer                                           | Pdesignh                                     | 3.30         | kW         | heating / Warmer                                                                   | SCOP/W             | 5.80         | A++<br>A+++       |
| heating / Colder                                           | Pdesignh                                     | -            | kW         | heating / Colder                                                                   | SCOP/C             | -            | -                 |
|                                                            | ×                                            |              |            |                                                                                    |                    |              | unit              |
| Declared capacity at outdoor te                            |                                              |              | <b></b> -  | Back up heating capacity at outdoor                                                |                    | designh      |                   |
| heating / Average (-10°C)<br>heating / Warmer (2°C)        | Pdh<br>Pdh                                   | 2.60 3.30    | kW<br>kW   | heating / Average (-10°C)<br>heating / Warmer (2°C)                                | elbu<br>elbu       | -            | kW<br>kW          |
| heating / Colder (-22°C)                                   | Pdh                                          | 3.30         | kW         | heating / Colder (-22°C)                                                           | elbu               | -            | kW                |
|                                                            |                                              |              | 1          |                                                                                    |                    | L            |                   |
| Declared capacity for cooling, a                           | at indoor temperature 2                      | 27(19)°C a   | ind        | Declared energy efficiency ratio, at i                                             | ndoor tempera      | ture 27(19   | 9)°C and          |
| outdoor temperature Tj                                     | Dite                                         | 0.00         | 1          | outdoor temperature Tj                                                             | EED.               | 4 55         | -                 |
| Tj=35℃<br>Tj=30℃                                           | Pdc<br>Pdc                                   | 2.00         | kW<br>kW   | Tj=35℃<br>Tj=30℃                                                                   | EERd<br>EERd       | 4.55<br>6.80 | -                 |
| Tj=25°C                                                    | Pdc                                          | 1.40         | kW         | Tj=30 C                                                                            | EERd               | 11.80        | -                 |
| Tj=20℃                                                     | Pdc                                          | 1.00         | kW         | Tj=20°C                                                                            | EERd               | 18.20        | -                 |
| -                                                          |                                              |              |            |                                                                                    |                    |              |                   |
| Declared capacity for heating /                            |                                              | door         |            | Declared coefficient of performance                                                |                    | son, at inc  | door              |
| temperature 20°C and outdoor<br>Tj=-7°C                    | temperature Tj<br>Pdh                        | 2.40         | kW         | temperature 20°C and outdoor temp                                                  | erature Tj<br>COPd | 2.50         | ا                 |
| Tj=2°C                                                     | Pdh                                          | 1.40         | kW         | Ti=2°C                                                                             | COPd               | 4.70         | -                 |
| Tj=7℃                                                      | Pdh                                          | 0.95         | kW         | Tj=7°C                                                                             | COPd               | 6.24         | -                 |
| Tj=12°C                                                    | Pdh                                          | 1.10         | kW         | Tj=12°C                                                                            | COPd               | 7.80         | -                 |
| Tj=bivalent temperature                                    | Pdh                                          | 2.60         | kW         | Tj=bivalent temperature                                                            | COPd               | 2.20         | -                 |
| Tj=operating limit                                         | Pdh                                          | 2.60         | kW         | Tj=operating limit                                                                 | COPd               | 2.20         | -                 |
| Declared capacity for heating /                            | Warmer season at in                          | door         |            | Declared coefficient of performance                                                | / Warmer sea       | son at inc   | loor              |
| temperature 20°C and outdoor                               |                                              |              |            | temperature 20°C and outdoor temp                                                  |                    | ,            |                   |
| Tj=2°C                                                     | Pdh                                          | 3.30         | kW         | Tj=2°C                                                                             | COPd               | 2.57         | -                 |
| Tj=7°C                                                     | Pdh                                          | 2.10         | kW         | Tj=7°C                                                                             | COPd               | 5.12         | -                 |
| Tj=12°C<br>Tj=bivalent temperature                         | Pdh<br>Pdh                                   | 1.10<br>3.30 | kW<br>kW   | Tj=12°C<br>Tj=bivalent temperature                                                 | COPd<br>COPd       | 7.80         | -                 |
| Tj=operating limit                                         | Pdh                                          | 3.30         | kW         | Tj=operating limit                                                                 | COPd               | 2.57         | -                 |
|                                                            | -                                            |              |            |                                                                                    |                    |              |                   |
| Declared capacity for heating /                            |                                              | oor          |            | Declared coefficient of performance                                                |                    | on, at indo  | or                |
| temperature 20°C and outdoor<br>Tj=-7°C                    | Pdh                                          | -            | kW         | temperature 20°C and outdoor temp                                                  | COPd               | -            | ٦ F               |
| 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               | -            | -                 |
| Tj=-15°C                                                   | Pdh                                          | -            | kW         | Tj=-15℃                                                                            | COPd               | -            | -                 |
| Bivalent temperature                                       |                                              |              |            | Operating limit temperature                                                        |                    |              |                   |
| heating / Average                                          | Tbiv                                         | -10          | °C         | heating / Average                                                                  | Tol                | -10          | °C                |
| heating / Warmer                                           | Tbiv                                         | 2            | °C         | heating / Warmer                                                                   | Tol                | 2            | °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             | -            | -                 |
| Degradation acofficient                                    |                                              |              |            | Depredation coefficient                                                            |                    |              |                   |
| Degradation coefficient<br>cooling                         | Cdc                                          | 0.25         | ٦_         | Degradation coefficient<br>heating                                                 | Cdh                | 0.25         | ٦.                |
| coomig                                                     | 000                                          | 0.20         |            | nouting                                                                            | Guil               | 0.20         |                   |
| Electric power input in power m                            |                                              | e mode'      | -          | Annual electricity consumption                                                     |                    |              | -                 |
| off mode                                                   | Poff                                         | 4            | W          | cooling                                                                            | Qce                | 83           | kWh/a             |
| standby mode<br>thermostat-off mode                        | Psb<br>Pto(cooling)                          | 4            | W          | heating / Average<br>heating / Warmer                                              | Qhe<br>Qhe         | 793<br>797   | kWh/a<br>kWh/a    |
| inemiosiai-on mode                                         | Pto(beatling)                                | 11           | Ŵ          | heating / colder                                                                   | Qhe                | -            | kWh/a             |
| crankcase heater mode                                      | Pck                                          | 0            | Ŵ          |                                                                                    |                    |              |                   |
|                                                            |                                              |              |            | ·                                                                                  |                    |              |                   |
| Capacity control(indicate one o                            | f three options)                             |              |            | Other items                                                                        |                    |              |                   |
|                                                            |                                              |              |            | Sound power level(indoor)<br>Sound power level(outdoor)                            | Lwa                | 48<br>56     | dB(A)<br>dB(A)    |
| fixed                                                      | No                                           |              |            | Global warming potential                                                           | Lwa<br>GWP         | 675          | dB(A)<br>kgCO2eq. |
| staged                                                     | No                                           |              |            | Rated air flow(indoor)                                                             | -                  | 558          | m <sup>3</sup> /h |
| variable                                                   | Yes                                          |              |            | Rated air flow(outdoor)                                                            | -                  | 1644         | m <sup>3</sup> /h |
| Contract dat-il- fra 11 11                                 | Nama ar d - dd - f                           |              | a ale como |                                                                                    |                    |              |                   |
|                                                            | Name and address of<br>Mitsubishi Heavy Indu |              |            | of its authorised representative.                                                  |                    |              |                   |
|                                                            |                                              |              |            | ddlesex, UB11 1ET,United Kingdom                                                   |                    |              |                   |
|                                                            | MHIAE SERVICES B.                            | V.           |            |                                                                                    |                    |              |                   |
| 1 1                                                        | Herikerberawea 238                           | una Aren     | A. 1101 CI | M Amsterdam, Netherlands                                                           |                    |              |                   |

RWA000Z274 🛕

### Model SRK25ZS-W

| Information to identify the model(                       | s) to which the info                   | rmation relates to:   | If function includes heating: Indicate                         | e the heating season the                                          |
|----------------------------------------------------------|----------------------------------------|-----------------------|----------------------------------------------------------------|-------------------------------------------------------------------|
| Indoor unit model name                                   | SRK25ZS-                               | W                     | information relates to. Indicated val                          | ues should relate to one                                          |
| Outdoor unit model name                                  | SRC25ZS-                               | WA2                   | heating season at a time. Include at                           | least the heating season 'Average'.                               |
| Function(indicate if present)                            |                                        |                       | Average(mandatory)                                             | Yes                                                               |
| cooling                                                  | Yes                                    |                       | Warmer(if designated)                                          | Yes                                                               |
| heating                                                  | Yes                                    |                       | Colder(if designated)                                          | No                                                                |
|                                                          |                                        |                       |                                                                |                                                                   |
| Item<br>Design load                                      | symbol                                 | value unit            | Item<br>Seasonal efficiency and energy effi                    | symbol value class                                                |
| cooling                                                  | Pdesignc                               | 2.50 kW               | cooling                                                        | SEER 8.50 A+++                                                    |
| heating / Average                                        | Pdesignh                               | 2.70 kW               | heating / Average                                              | SCOP/A 4.70 A++                                                   |
| heating / Warmer                                         | Pdesignh                               | 3.30 kW               | heating / Warmer                                               | SCOP/W 5.90 A+++                                                  |
| heating / Colder                                         | Pdesignh                               | - kW                  | heating / Colder                                               | SCOP/C                                                            |
| Declared capacity at outdoor tem                         | nerature Tdesignh                      |                       | Back up heating capacity at outdoo                             | unit<br>r temperature Tdesignh                                    |
| heating / Average (-10°C)                                | Pdh                                    | 2.70 kW               | heating / Average (-10°C)                                      | elbu - kW                                                         |
| heating / Warmer (2°C)                                   | Pdh                                    | 3.30 kW               | heating / Warmer (2°C)                                         | elbu - kW                                                         |
| heating / Colder (-22°C)                                 | Pdh                                    | - kW                  | heating / Colder (-22°C)                                       | elbu - kW                                                         |
| Declared conscitution cooling at                         |                                        | 07/10\°C and          | Declared energy officiency ratio at                            | indeer to more ture 27(10)°O and                                  |
| Declared capacity for cooling, at outdoor temperature Tj | indoor temperature                     | 27(19) C and          | Declared energy efficiency ratio, at<br>outdoor temperature Tj | Indoor temperature 27(19) C and                                   |
| Tj=35℃                                                   | Pdc                                    | 2.50 kW               | Tj=35℃                                                         | EERd <b>4.03</b> -                                                |
| Tj=30℃                                                   | Pdc                                    | 1.80 kW               | Tj=30℃                                                         | EERd 6.45 -                                                       |
| Tj=25℃                                                   | Pdc                                    | 1.11 kW               | Tj=25°C                                                        | EERd 11.80 -                                                      |
| Tj=20°C                                                  | Pdc                                    | 1.10 kW               | Tj=20°C                                                        | EERd 18.20 -                                                      |
| Declared capacity for heating / A                        | verane season at i                     | ndoor                 | Declared coefficient of performance                            | Average season at indoor                                          |
| temperature 20°C and outdoor te                          |                                        |                       | temperature 20°C and outdoor temp                              |                                                                   |
| Tj=-7°C                                                  | Pdh                                    | 2.40 kW               | Tj=-7°C                                                        | COPd <b>2.50</b> -                                                |
| Tj=2°C                                                   | Pdh                                    | 1.40 kW               | Tj=2°C                                                         | COPd <b>4.92</b> -                                                |
| Tj=7℃                                                    | Pdh                                    | 0.95 kW               | Tj=7°C                                                         | COPd 6.15 -                                                       |
| Tj=12℃                                                   | Pdh<br>Pdh                             | 1.10 kW<br>2.70 kW    | Tj=12°C                                                        | COPd <b>7.86</b> -<br>COPd <b>2.40</b> -                          |
| Tj=bivalent temperature<br>Tj=operating limit            | Pdh                                    | 2.70 KW               | Tj=bivalent temperature<br>Tj=operating limit                  | COPd <b>2.40</b> -<br>COPd <b>2.40</b> -                          |
|                                                          | i un                                   | 2.10                  |                                                                |                                                                   |
| Declared capacity for heating / W                        | armer season, at ir                    | ndoor                 | Declared coefficient of performance                            |                                                                   |
| temperature 20°C and outdoor te                          |                                        |                       | temperature 20°C and outdoor temp                              |                                                                   |
| Tj=2℃<br>Tj=7℃                                           | Pdh<br>Pdh                             | 3.30 kW<br>2.10 kW    | Tj=2℃<br>Tj=7℃                                                 | COPd <b>2.70</b> -<br>COPd <b>5.23</b> -                          |
| Tj=12°C                                                  | Pdh                                    | 1.10 kW               | Tj=7°C                                                         | COPd <b>3.23</b> -<br>COPd <b>7.86</b> -                          |
| Tj=bivalent temperature                                  | Pdh                                    | 3.30 kW               | Tj=bivalent temperature                                        | COPd <b>2.70</b>                                                  |
| Tj=operating limit                                       | Pdh                                    | 3.30 kW               | Tj=operating limit                                             | COPd 2.70 -                                                       |
|                                                          |                                        |                       |                                                                | · ·                                                               |
| Declared capacity for heating / C                        |                                        | loor                  | Declared coefficient of performance                            |                                                                   |
| temperature 20°C and outdoor te<br>Tj=-7°C               | Pdh                                    | - kW                  | temperature 20°C and outdoor temp<br>Tj=-7°C                   | COPd                                                              |
| Tj=2°C                                                   | Pdh                                    | - kW                  | Ti=2°C                                                         | COPd -                                                            |
| Tj=7°C                                                   | Pdh                                    | - kW                  | Tj=7℃                                                          | COPd                                                              |
| Tj=12°C                                                  | Pdh                                    | - kW                  | Tj=12°C                                                        | COPd                                                              |
| Tj=bivalent temperature                                  | Pdh                                    | - kW                  | Tj=bivalent temperature                                        | COPd                                                              |
| Tj=operating limit                                       | Pdh<br>Pdh                             | - kW<br>- kW          | Tj=operating limit                                             | COPd<br>COPd                                                      |
| Tj=-15℃                                                  | Pull                                   | - KVV                 | Tj=-15°C                                                       | COPa                                                              |
| Bivalent temperature                                     |                                        |                       | Operating limit temperature                                    |                                                                   |
| heating / Average                                        | Tbiv                                   | -10 °C                | heating / Average                                              | Tol <b>-10</b> °C                                                 |
| heating / Warmer                                         | Tbiv                                   | 2 °C                  | heating / Warmer                                               | Tol <b>2</b> °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                                                            |
|                                                          | -                                      | •                     |                                                                | <b>_</b>                                                          |
| Degradation coefficient                                  | 0.1-                                   | 0.05                  | Degradation coefficient                                        |                                                                   |
| cooling                                                  | Cdc                                    | 0.25 -                | heating                                                        | Cdh <b>0.25</b> -                                                 |
| Electric power input in power mo                         | des other than 'activ                  | ve mode'              | Annual electricity consumption                                 |                                                                   |
| off mode                                                 | Poff                                   | <b>4</b> W            | cooling                                                        | Qce <b>103</b> kWh/a                                              |
| standby mode                                             | Psb                                    | <b>4</b> W            | heating / Average                                              | Qhe 804 kWh/a                                                     |
| thermostat-off mode                                      | Pto(cooling)                           | 10 W                  | heating / Warmer                                               | Qhe <b>784</b> kWh/a                                              |
| orankagaa baatar mada                                    | Pto(heatling)                          | 11 W<br>0 W           | heating / colder                                               | Qhe - kWh/a                                                       |
| crankcase heater mode                                    | Pck                                    | U VV                  | J                                                              |                                                                   |
| Capacity control(indicate one of t                       | hree options)                          |                       | Other items                                                    |                                                                   |
|                                                          |                                        |                       | Sound power level(indoor)                                      | Lwa <b>50</b> dB(A)                                               |
|                                                          |                                        |                       | Sound power level(outdoor)                                     | Lwa <b>56</b> dB(A)                                               |
| fixed                                                    | No                                     |                       | Global warming potential                                       | GWP 675 kgCO2eq.                                                  |
| staged<br>variable                                       | No<br>Yes                              |                       | Rated air flow(indoor)<br>Rated air flow(outdoor)              | - <b>594</b> m <sup>3</sup> /h<br>- <b>1644</b> m <sup>3</sup> /h |
|                                                          | Tes                                    |                       |                                                                | - 1044    */                                                      |
| Contact details for obtaining Na                         | ame and address of                     | f the manufacturer o  | r of its authorised representative.                            |                                                                   |
|                                                          |                                        | stries Air-Conditioni |                                                                |                                                                   |
|                                                          | The Square, Stockle<br>HIAE SERVICES E |                       | liddlesex, UB11 1ET,United Kingdom                             |                                                                   |
|                                                          |                                        |                       | CM Amsterdam, Netherlands                                      |                                                                   |
|                                                          | J - 3 = 50,                            | ,                     | ,                                                              |                                                                   |

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### Model SRK35ZS-W

| Information to identify the model(s) to w                                       | hich the infor | mation rel   | lates to:     | If function includes heating: Indicate the                                      | heating s    | eason the                             |
|---------------------------------------------------------------------------------|----------------|--------------|---------------|---------------------------------------------------------------------------------|--------------|---------------------------------------|
| Indoor unit model name                                                          | SRK35ZS-V      |              |               | information relates to. Indicated values                                        |              |                                       |
| Outdoor unit model name                                                         | SRC35ZS-V      | NA2          |               | heating season at a time. Include at leas                                       | t the heatir | ng season 'Average'.                  |
| Function(indicate if present)                                                   |                |              |               | Average(mandatory)                                                              | Yes          |                                       |
| cooling                                                                         | Yes            |              |               | Warmer(if designated)                                                           | Yes          |                                       |
| heating                                                                         | Yes            |              |               | Colder(if designated)                                                           | No           |                                       |
| Itom                                                                            | overhol        | volue        | unit          | Itom                                                                            | aumhal       | valua alass                           |
| Item<br>Design load                                                             | symbol         | value        | unit          | Item<br>Seasonal efficiency and energy efficient                                | symbol       | value class                           |
| cooling                                                                         | Pdesignc       | 3.50         | kW            | cooling                                                                         | SEER         | 8.40 A++                              |
| heating / Average                                                               | Pdesignh       | 3.00         | kW            | heating / Average                                                               | SCOP/A       |                                       |
| heating / Warmer                                                                | Pdesignh       | 3.70         | kW            | heating / Warmer                                                                | SCOP/W       |                                       |
| heating / Colder                                                                | Pdesignh       | -            | kW            | heating / Colder                                                                | SCOP/C       | <br>unit                              |
| Declared capacity at outdoor temperatu                                          | re Tdesianh    |              |               | Back up heating capacity at outdoor ten                                         | nperature    |                                       |
| heating / Average (-10°C)                                                       | Pdh            | 3.00         | kW            | heating / Average (-10°C)                                                       | elbu         | - kW                                  |
| heating / Warmer (2°C)                                                          | Pdh            | 3.70         | 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                                        | temnerature    | 27(19)°C     | and           | Declared energy efficiency ratio, at indo                                       | or temner    | ature 27(19)°C and                    |
| outdoor temperature Tj                                                          | lemperature    | 27(13) 01    | anu           | outdoor temperature Tj                                                          | or tempera   |                                       |
| Tj=35°C                                                                         | Pdc            | 3.50         | kW            | Tj=35°C                                                                         | EERd         | 3.82 -                                |
| Tj=30°C                                                                         | Pdc            | 2.58         | kW            | Tj=30°C                                                                         | EERd         | 5.82 -                                |
| Tj=25°C                                                                         | Pdc            | 1.60         | kW<br>kW      | Tj=25℃<br>Tj=20℃                                                                | EERd         | 11.20 -                               |
| Tj=20°C                                                                         | Pdc            | 1.07         | KVV           | 1j=20 C                                                                         | EERd         | 18.50 -                               |
| Declared capacity for heating / Average                                         | season, at ir  | ndoor        |               | Declared coefficient of performance / Av                                        | /erage sea   | ason, at indoor                       |
| temperature 20°C and outdoor temperat                                           | ture Tj        |              | _             | temperature 20°C and outdoor tempera                                            | ture Tj      |                                       |
| Tj=-7℃                                                                          | Pdh            | 2.65         | kW            | Tj=-7°C                                                                         | COPd         | 2.50 -                                |
| Tj=2°C<br>Tj=7°C                                                                | Pdh<br>Pdh     | 1.62<br>1.04 | kW<br>kW      | Tj=2°C<br>Tj=7°C                                                                | COPd<br>COPd | 4.92 -<br>6.10 -                      |
| Tj=12°C                                                                         | Pdh            | 1.04         | kW            | Tj=7°C                                                                          | COPd         | 7.86                                  |
| Tj=bivalent temperature                                                         | Pdh            | 3.00         | kW            | Tj=bivalent temperature                                                         | COPd         | 2.40 -                                |
| Tj=operating limit                                                              | Pdh            | 3.00         | kW            | Tj=operating limit                                                              | COPd         | 2.40 -                                |
|                                                                                 |                |              |               |                                                                                 |              |                                       |
| Declared capacity for heating / Warmer<br>temperature 20°C and outdoor temperat |                | idoor        |               | Declared coefficient of performance / W<br>temperature 20°C and outdoor tempera |              | ason, at indoor                       |
| Tj=2°C                                                                          | Pdh            | 3.70         | kW            | Tj=2°C                                                                          | COPd         | 2.80 -                                |
| Tj=7℃                                                                           | Pdh            | 2.38         | kW            | Tj=7°C                                                                          | COPd         | 5.20 -                                |
| Tj=12°C                                                                         | Pdh            | 1.16         | kW            | Tj=12°C                                                                         | COPd         | 7.86 -                                |
| Tj=bivalent temperature                                                         | Pdh            | 3.70         | kW            | Tj=bivalent temperature                                                         | COPd         | 2.80 -                                |
| Tj=operating limit                                                              | Pdh            | 3.70         | kW            | Tj=operating limit                                                              | COPd         | 2.80 -                                |
| Declared capacity for heating / Colder s                                        | eason, at ind  | oor          |               | Declared coefficient of performance / C                                         | older seas   | on, at indoor                         |
| temperature 20°C and outdoor temperat                                           |                |              | _             | temperature 20°C and outdoor tempera                                            |              |                                       |
| Tj=-7°C                                                                         | Pdh            | -            | kW            | Tj=-7°C                                                                         | COPd         |                                       |
| Tj=2℃<br>Tj=7℃                                                                  | Pdh<br>Pdh     | -            | kW<br>kW      | Tj=2℃<br>Tj=7℃                                                                  | COPd         |                                       |
| Tj=12°C                                                                         | Pdh            | -            | kW            | Tj=7℃                                                                           | COPd<br>COPd |                                       |
| 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℃                                                                         | COPd         |                                       |
| Rivelent temperature                                                            |                |              |               | Operating limit temperature                                                     |              |                                       |
| Bivalent temperature<br>heating / Average                                       | Tbiv           | -10          | °C            | heating / Average                                                               | Tol          | -10 °C                                |
| heating / Warmer                                                                | Tbiv           | 2            | °C            | heating / Warmer                                                                | Tol          | 2 °C                                  |
| heating / Colder                                                                | Tbiv           | -            | °C            | heating / Colder                                                                | Tol          | - °C                                  |
| Quality internal it                                                             |                |              |               | Qualizzation 1 1                                                                |              |                                       |
| Cycling interval capacity<br>for cooling                                        | Pcycc          | -            | kW            | Cycling interval efficiency<br>for cooling                                      | EERcyc       | <b>-</b> ]-                           |
| for heating                                                                     | Pcych          | -            | kW            | for heating                                                                     | COPcyc       |                                       |
|                                                                                 |                |              |               | ioi nouting                                                                     | 00.00        | 1 1                                   |
| Degradation coefficient                                                         |                |              | -             | Degradation coefficient                                                         |              |                                       |
| cooling                                                                         | Cdc            | 0.25         | -             | heating                                                                         | Cdh          | 0.25 -                                |
| Electric power input in power modes oth                                         | er than 'activ | e mode'      |               | Annual electricity consumption                                                  |              |                                       |
| off mode                                                                        | Poff           | 4            | W             | cooling                                                                         | Qce          | 146 kWh/a                             |
| standby mode                                                                    | Psb            | 4            | W             | heating / Average                                                               | Qhe          | 895 kWh/a                             |
| thermostat-off mode                                                             | Pto(cooling)   | 10           | W             | heating / Warmer                                                                | Qhe          | 863 kWh/a                             |
| anankanan hantar mada                                                           | Pto(heatling)  | 11           | W             | heating / colder                                                                | Qhe          | - kWh/a                               |
| crankcase heater mode                                                           | Pck            | 0            | W             | l                                                                               |              |                                       |
| Capacity control(indicate one of three or                                       | otions)        |              |               | Other items                                                                     |              |                                       |
|                                                                                 | -              |              |               | Sound power level(indoor)                                                       | Lwa          | 54 dB(A)                              |
|                                                                                 |                |              |               | Sound power level(outdoor)                                                      | Lwa          | 61 dB(A)                              |
| fixed<br>staged                                                                 | No<br>No       |              |               | Global warming potential<br>Rated air flow(indoor)                              | GWP<br>-     | 675 kgCO2eq.<br>678 m <sup>3</sup> /h |
| variable                                                                        | Yes            |              |               | Rated air flow(indoor)                                                          | -            | 1890 m <sup>3</sup> /h                |
|                                                                                 |                |              |               |                                                                                 |              |                                       |
|                                                                                 |                |              |               | of its authorised representative.                                               |              |                                       |
|                                                                                 |                |              |               | ng Europe, Ltd.<br>iddlesex, UB11 1ET,United Kingdom                            |              |                                       |
|                                                                                 | ERVICES B.     |              | Abriage, IVII |                                                                                 |              |                                       |
|                                                                                 |                |              | A. 1101 C     | M Amsterdam, Netherlands                                                        |              |                                       |

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### Model SRK20ZS-WB

| Information to identify the model(s) to v      | which the info  | rmation re | lates to:  | If function includes heating: Indicate the                           | heating se   | eason the              |
|------------------------------------------------|-----------------|------------|------------|----------------------------------------------------------------------|--------------|------------------------|
| Indoor unit model name                         | SRK20ZS-        |            |            | information relates to. Indicated values                             |              |                        |
| Outdoor unit model name                        | SRC20ZS-        | WA         |            | heating season at a time. Include at least                           | t the heatin | ig season 'Average'.   |
|                                                |                 |            |            |                                                                      |              |                        |
| Function(indicate if present)                  |                 |            |            | Average(mandatory)                                                   | Yes          |                        |
| cooling                                        | Yes             |            |            | Warmer(if designated)                                                | Yes          |                        |
| heating                                        | Yes             |            |            | Colder(if designated)                                                | No           |                        |
| Item                                           | symbol          | value      | unit       | Item                                                                 | symbol       | value class            |
| Design load                                    | eyev.           | raido      | Gint       | Seasonal efficiency and energy efficience                            |              | 10100                  |
| cooling                                        | Pdesignc        | 2.00       | kW         | cooling                                                              | SEER         | 8.50 A+++              |
| heating / Average                              | Pdesignh        | 2.60       | kW         | heating / Average                                                    | SCOP/A       | 4.60 A++               |
| heating / Warmer                               | Pdesignh        | 3.30       | kW         | heating / Warmer                                                     | SCOP/W       |                        |
| heating / Colder                               | Pdesignh        | -          | kW         | heating / Colder                                                     | SCOP/C       |                        |
| Declared capacity at outdoor temperate         | una Telasianak  |            |            | Deale up besting conseits at suites to                               |              | unit                   |
| heating / Average (-10°C)                      | Pdh             | 2.60       | kW         | Back up heating capacity at outdoor ten<br>heating / Average (-10°C) | elbu         | - kW                   |
| heating / Warmer (2°C)                         | Pdh             | 3.30       | kW         | heating / Warmer (2°C)                                               | elbu         | - kW                   |
| heating / Colder (-22°C)                       | Pdh             | -          | kW         | heating / Colder (-22°C)                                             | elbu         | - kW                   |
|                                                |                 | 1          | 1          | ······································                               |              | <u> </u>               |
| Declared capacity for cooling, at indoor       | temperature     | 27(19)°C   | and        | Declared energy efficiency ratio, at indo                            | or tempera   | ature 27(19)°C and     |
| outdoor temperature Tj                         |                 |            | _          | outdoor temperature Tj                                               |              |                        |
| Tj=35℃                                         | Pdc             | 2.00       | kW         | Tj=35℃                                                               | EERd         | 4.55 -                 |
| Tj=30°C                                        | Pdc             | 1.40       | kW         | Tj=30°C                                                              | EERd         | 6.80 -                 |
| Tj=25℃                                         | Pdc             | 1.00       | kW         | Tj=25°C                                                              | EERd         | 11.80 -                |
| Tj=20°C                                        | Pdc             | 1.00       | kW         | Tj=20°C                                                              | EERd         | 18.20 -                |
| Declared capacity for heating / Average        | eeseen of it    | ndoor      |            | Declared coefficient of performance / A                              | Arago sor    | son at indeer          |
| temperature 20°C and outdoor temperature       |                 |            |            | temperature 20°C and outdoor tempera                                 |              | ison, at muoor         |
| Tj=-7°C                                        | Pdh             | 2.40       | kW         | Tj=-7°C                                                              | COPd         | 2.50 -                 |
| Tj=2°C                                         | Pdh             | 1.40       | kW         | Tj=2°C                                                               | COPd         | 4.70 -                 |
| Tj=7℃                                          | Pdh             | 0.95       | kW         | Tj=7°C                                                               | COPd         | 6.24 -                 |
| Tj=12°C                                        | Pdh             | 1.10       | kW         | Tj=12°C                                                              | COPd         | 7.80 -                 |
| Tj=bivalent temperature                        | Pdh             | 2.60       | kW         | Tj=bivalent temperature                                              | COPd         | 2.20 -                 |
| Tj=operating limit                             | Pdh             | 2.60       | kW         | Tj=operating limit                                                   | COPd         | 2.20 -                 |
|                                                |                 |            |            |                                                                      |              |                        |
| Declared capacity for heating / Warme          |                 | ndoor      |            | Declared coefficient of performance / W                              |              | son, at indoor         |
| temperature 20°C and outdoor tempera<br>Tj=2°C | Pdh             | 3.30       | kW         | temperature 20°C and outdoor tempera<br>Tj=2°C                       | COPd         | 2.57 -                 |
| Tj=7℃                                          | Pdh             | 2.10       | kW         | Tj=2°C                                                               | COPd         | 5.12 -                 |
| Tj=12°C                                        | Pdh             | 1.10       | kW         | Tj=7°C                                                               | COPd         | 7.80 -                 |
| Tj=bivalent temperature                        | Pdh             | 3.30       | kW         | Tj=bivalent temperature                                              | COPd         | 2.57 -                 |
| Tj=operating limit                             | Pdh             | 3.30       | kW         | Tj=operating limit                                                   | COPd         | 2.57 -                 |
|                                                | 1 dil           | 0.00       |            |                                                                      | 001 0        | 2.07                   |
| Declared capacity for heating / Colder         | season, at ind  | loor       |            | Declared coefficient of performance / Co                             | older seas   | on. at indoor          |
| temperature 20°C and outdoor temperative       |                 |            |            | temperature 20°C and outdoor temperation                             |              | . ,                    |
| Tj=-7°C                                        | Pdh             | -          | kW         | Tj=-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℃                                                               | COPd         |                        |
| Tj=bivalent temperature                        | Pdh             | -          | kW         | Tj=bivalent temperature                                              | COPd         |                        |
| Tj=operating limit                             | Pdh             | -          | kW         | Tj=operating limit                                                   | COPd         |                        |
| Tj=-15℃                                        | Pdh             | -          | kW         | Tj=-15℃                                                              | COPd         |                        |
| Bivalent temperature                           |                 |            |            | Operating limit temperature                                          |              |                        |
| heating / Average                              | Tbiv            | -10        | °C         | heating / Average                                                    | Tol          | -10 ℃                  |
| heating / Warmer                               | Tbiv            | 2          | °C         | heating / Warmer                                                     | Tol          | 2 °C                   |
| heating / Colder                               | Tbiv            | -          | °C         | heating / Colder                                                     | Tol          | - °C                   |
|                                                |                 |            |            |                                                                      |              | 1                      |
| Cycling interval capacity                      |                 |            | _          | Cycling interval efficiency                                          |              |                        |
| for cooling                                    | Pcycc           | -          | kW         | for cooling                                                          | EERcyc       |                        |
| for heating                                    | Pcych           | -          | kW         | for heating                                                          | COPcyc       |                        |
| Degradation coefficient                        |                 |            |            | Degradation coefficient                                              |              |                        |
| Degradation coefficient<br>cooling             | Cdc             | 0.25       | ٦_         | Degradation coefficient<br>heating                                   | Cdh          | 0.25 -                 |
| cooling                                        | ouc             | 0.20       | I          | ricating                                                             | Oun          | 0.20                   |
| Electric power input in power modes of         | her than 'activ | ve mode'   |            | Annual electricity consumption                                       |              |                        |
| off mode                                       | Poff            | 4          | W          | cooling                                                              | Qce          | 83 kWh/a               |
| standby mode                                   | Psb             | 4          | W          | heating / Average                                                    | Qhe          | 793 kWh/a              |
| thermostat-off mode                            | Pto(cooling)    | 10         | W          | heating / Warmer                                                     | Qhe          | <b>797</b> kWh/a       |
|                                                | Pto(heatling)   | 11         | W          | heating / colder                                                     | Qhe          | - kWh/a                |
| crankcase heater mode                          | Pck             | 0          | W          |                                                                      |              |                        |
|                                                |                 |            |            | Others its sec                                                       |              |                        |
| Capacity control(indicate one of three of      | options)        |            |            | Other items<br>Sound power level(indoor)                             | Lwa          | 48 dB(A)               |
|                                                |                 |            |            | Sound power level(indoor)                                            | Lwa<br>Lwa   | <b>56</b> dB(A)        |
| fixed                                          | No              |            |            | Global warming potential                                             | GWP          | 675 kgCO2eq.           |
| staged                                         | No              |            |            | Rated air flow(indoor)                                               | -            | 558 m <sup>3</sup> /h  |
| variable                                       | Yes             |            |            | Rated air flow(outdoor)                                              | -            | 1644 m <sup>3</sup> /h |
|                                                |                 |            |            |                                                                      |              |                        |
|                                                |                 |            |            | of its authorised representative.                                    |              |                        |
|                                                |                 |            |            | ng Europe, Ltd.                                                      |              |                        |
|                                                |                 |            | xbridge, M | iddlesex, UB11 1ET, United Kingdom                                   |              |                        |
|                                                | SERVICES B      |            | Δ 1101 C   | M Amsterdam, Netherlands                                             |              |                        |
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### Model SRK25ZS-WB

| Information to identify the model(s) to w                           | hich the infor       | mation re | lates to:  | If function includes heating: Indicate the                           | heating se   | eason the                     |
|---------------------------------------------------------------------|----------------------|-----------|------------|----------------------------------------------------------------------|--------------|-------------------------------|
| Indoor unit model name                                              | SRK25ZS-             |           |            | information relates to. Indicated values                             |              |                               |
| Outdoor unit model name                                             | SRC25ZS-             | NA2       |            | heating season at a time. Include at least                           | t the heatin | ig season 'Average'.          |
|                                                                     |                      |           |            |                                                                      |              |                               |
| Function(indicate if present)                                       |                      |           |            | Average(mandatory)                                                   | Yes          |                               |
| cooling                                                             | Yes                  |           |            | Warmer(if designated)                                                | Yes          |                               |
| heating                                                             | Yes                  |           |            | Colder(if designated)                                                | No           |                               |
| Item                                                                | symbol               | value     | unit       | Item                                                                 | symbol       | value class                   |
| Design load                                                         | 0,111,201            | Tuluo     | unit       | Seasonal efficiency and energy efficience                            |              | 10100                         |
| cooling                                                             | Pdesignc             | 2.50      | kW         | cooling                                                              | SEER         | 8.50 A+++                     |
| heating / Average                                                   | Pdesignh             | 2.70      | kW         | heating / Average                                                    | SCOP/A       | 4.70 A++                      |
| heating / Warmer                                                    | Pdesignh             | 3.30      | kW         | heating / Warmer                                                     | SCOP/W       |                               |
| heating / Colder                                                    | Pdesignh             | -         | kW         | heating / Colder                                                     | SCOP/C       |                               |
| Dealared appreciate at autolean terminariate                        | ne Telesiene         |           |            | Deale up besting conseits at suites to                               |              | unit                          |
| Declared capacity at outdoor temperatu<br>heating / Average (-10°C) | Pdh                  | 2.70      | kW         | Back up heating capacity at outdoor ten<br>heating / Average (-10°C) | elbu         | - kW                          |
| heating / Warmer (2°C)                                              | Pdh                  | 3.30      | kW         | heating / Warmer (2°C)                                               | elbu         | - kW                          |
| heating / Colder (-22°C)                                            | Pdh                  | -         | kW         | heating / Colder (-22°C)                                             | elbu         | - kW                          |
|                                                                     |                      |           |            | ······································                               |              | <u> </u>                      |
| Declared capacity for cooling, at indoor                            | temperature          | 27(19)°C  | and        | Declared energy efficiency ratio, at indo                            | or tempera   | ature 27(19)°C and            |
| outdoor temperature Tj                                              | -                    |           | _          | outdoor temperature Tj                                               | -            |                               |
| Tj=35°C                                                             | Pdc                  | 2.50      | kW         | Tj=35℃                                                               | EERd         | 4.03 -                        |
| Tj=30°C                                                             | Pdc                  | 1.80      | kW         | Tj=30°C                                                              | EERd         | 6.45                          |
| Tj=25℃                                                              | Pdc                  | 1.11      | kW         | Tj=25°C                                                              | EERd         | 11.80 -                       |
| Tj=20°C                                                             | Pdc                  | 1.10      | kW         | Tj=20°C                                                              | EERd         | 18.20 -                       |
| Declared capacity for heating / Average                             | season at in         | door      |            | Declared coefficient of performance / A                              | verage con   | son at indoor                 |
| temperature 20°C and outdoor tempera                                |                      |           |            | temperature 20°C and outdoor tempera                                 |              | ison, at muoor                |
| Tj=-7°C                                                             | Pdh                  | 2.40      | kW         | Tj=-7°C                                                              | COPd         | 2.50 -                        |
| Tj=2°C                                                              | Pdh                  | 1.40      | kW         | Tj=2°C                                                               | COPd         | 4.92 -                        |
| Tj=7°C                                                              | Pdh                  | 0.95      | kW         | Tj=7°C                                                               | COPd         | 6.15 -                        |
| Tj=12°C                                                             | Pdh                  | 1.10      | kW         | Tj=12°C                                                              | COPd         | 7.86 -                        |
| Tj=bivalent temperature                                             | Pdh                  | 2.70      | kW         | Tj=bivalent temperature                                              | COPd         | 2.40 -                        |
| Tj=operating limit                                                  | Pdh                  | 2.70      | kW         | Tj=operating limit                                                   | COPd         | 2.40 -                        |
|                                                                     |                      |           |            |                                                                      |              |                               |
| Declared capacity for heating / Warmer                              |                      | laoor     |            | Declared coefficient of performance / W                              |              | son, at indoor                |
| temperature 20°C and outdoor tempera<br>Tj=2°C                      | Pdh                  | 3.30      | kW         | temperature 20°C and outdoor tempera<br>Ti=2°C                       | COPd         | 2.70 -                        |
| Tj=7°C                                                              | Pdh                  | 2.10      | kW         | Tj=7°C                                                               | COPd         | 5.23 -                        |
| Tj=12℃                                                              | Pdh                  | 1.10      | kW         | Tj=12°C                                                              | COPd         | 7.86 -                        |
| Tj=bivalent temperature                                             | Pdh                  | 3.30      | kW         | Tj=bivalent temperature                                              | COPd         | 2.70 -                        |
| Tj=operating limit                                                  | Pdh                  | 3.30      | kW         | Tj=operating limit                                                   | COPd         | 2.70 -                        |
|                                                                     |                      |           |            |                                                                      |              | <u></u>                       |
| Declared capacity for heating / Colder s                            |                      | oor       |            | Declared coefficient of performance / Co                             |              | on, at indoor                 |
| temperature 20°C and outdoor tempera                                |                      |           | <b></b>    | temperature 20°C and outdoor tempera                                 |              |                               |
| Tj=-7°C                                                             | Pdh                  | -         | kW         | Tj=-7℃                                                               | COPd         |                               |
| Tj=2°C                                                              | Pdh                  | -         | kW         | Tj=2°C                                                               | COPd         | <u> </u>                      |
| Tj=7℃<br>Tj=12℃                                                     | Pdh                  | -         | kW<br>kW   | Tj=7°C<br>Tj=12℃                                                     | COPd         | <br>                          |
| Tj=bivalent temperature                                             | Pdh<br>Pdh           | -         | kW         | Tj=bivalent temperature                                              | COPd<br>COPd |                               |
| Tj=operating limit                                                  | Pdh                  | -         | kW         | Tj=operating limit                                                   | COPd         |                               |
| Tj=-15℃                                                             | Pdh                  | -         | kW         | Tj=-15℃                                                              | COPd         | -                             |
|                                                                     |                      |           |            | .]                                                                   | 00.0         |                               |
| Bivalent temperature                                                |                      |           |            | Operating limit temperature                                          |              |                               |
| heating / Average                                                   | Tbiv                 | -10       | °C         | heating / Average                                                    | Tol          | <b>-10</b> °C                 |
| heating / Warmer                                                    | Tbiv                 | 2         | °C         | heating / Warmer                                                     | Tol          | 2 °C                          |
| heating / Colder                                                    | Tbiv                 | -         | °C         | heating / Colder                                                     | Tol          | - °C                          |
| Queling interval conseits                                           |                      |           |            | Qualization of afficiency                                            |              |                               |
| Cycling interval capacity<br>for cooling                            | Pcycc                | _         | kW         | Cycling interval efficiency<br>for cooling                           | EERcyc       | <b>-</b> -                    |
| for heating                                                         | Pcych                |           | kW         | for heating                                                          | COPcyc       |                               |
|                                                                     | . 0,011              |           | p          | Let nothing                                                          | 301 090      |                               |
| Degradation coefficient                                             |                      |           |            | Degradation coefficient                                              |              |                               |
| cooling                                                             | Cdc                  | 0.25      | ]-         | heating                                                              | Cdh          | 0.25 -                        |
|                                                                     |                      |           |            |                                                                      |              |                               |
| Electric power input in power modes other                           |                      | /e mode'  | <b>-</b>   | Annual electricity consumption                                       | _            |                               |
| off mode                                                            | Poff                 | 4         | W          | cooling                                                              | Qce          | 103 kWh/a                     |
| standby mode                                                        | Psb                  | 4         | W          | heating / Average                                                    | Qhe          | 804 kWh/a                     |
| thermostat-off mode                                                 | Pto(cooling)         | 10        | W          | heating / Warmer                                                     | Qhe          | 784 kWh/a                     |
| crankcase heater mode                                               | Pto(heatling)<br>Pck | 11<br>0   | W          | heating / colder                                                     | Qhe          | - kWh/a                       |
|                                                                     | FUK                  | U         | vv         | 1                                                                    |              |                               |
| Capacity control(indicate one of three o                            | ptions)              |           |            | Other items                                                          |              |                               |
|                                                                     | puono)               |           |            | Sound power level(indoor)                                            | Lwa          | 50 dB(A)                      |
|                                                                     |                      |           |            | Sound power level(outdoor)                                           | Lwa          | 56 dB(A)                      |
| fixed                                                               | No                   |           |            | Global warming potential                                             | GWP          | 675 kgCO2eq.                  |
| staged                                                              | No                   |           |            | Rated air flow(indoor)                                               | -            | <b>594</b> m <sup>3</sup> /h  |
| variable                                                            | Yes                  |           |            | Rated air flow(outdoor)                                              | -            | <b>1644</b> m <sup>3</sup> /h |
| Contract datails for obtain 1                                       | al a d l             | 41        | 64         | -file                                                                |              |                               |
|                                                                     |                      |           |            | of its authorised representative.<br>ng Europe, Ltd.                 |              |                               |
|                                                                     |                      |           |            | iddlesex, UB11 1ET,United Kingdom                                    |              |                               |
|                                                                     | SERVICES B           |           |            |                                                                      |              |                               |
|                                                                     |                      |           | nA, 1101 C | M Amsterdam, Netherlands                                             |              |                               |

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### Model SRK35ZS-WB

| Information to identify the model(s) to w          |                               |              | lates to:  | If function includes heating: Indicate th          |               |              |                   |
|----------------------------------------------------|-------------------------------|--------------|------------|----------------------------------------------------|---------------|--------------|-------------------|
| Indoor unit model name                             | SRK35ZS-                      |              |            | information relates to. Indicated values           |               |              |                   |
| Outdoor unit model name                            | SRC35ZS-                      | WA2          |            | heating season at a time. Include at leas          | st the heatir | ig season    | 'Average'         |
| Europhian/indiante if present)                     |                               |              |            |                                                    | Vee           |              |                   |
| Function(indicate if present)                      | Vee                           |              |            | Average(mandatory)                                 | Yes<br>Yes    |              |                   |
| cooling<br>heating                                 | Yes<br>Yes                    |              |            | Warmer(if designated)<br>Colder(if designated)     | No            |              |                   |
| neating                                            | 165                           |              |            | Colder(II designated)                              | NU            |              |                   |
| Item                                               | symbol                        | value        | unit       | Item                                               | symbol        | value        | class             |
| Design load                                        | ojinooi                       | Tuluo        | unit       | Seasonal efficiency and energy efficien            |               | raido        | 0.000             |
| cooling                                            | Pdesignc                      | 3.50         | kW         | cooling                                            | SEER          | 8.40         | A++               |
| heating / Average                                  | Pdesignh                      | 3.00         | kW         | heating / Average                                  | SCOP/A        | 4.70         | A++               |
| heating / Warmer                                   | Pdesignh                      | 3.70         | kW         | heating / Warmer                                   | SCOP/W        | 6.00         | A+++              |
| heating / Colder                                   | Pdesignh                      | -            | kW         | heating / Colder                                   | SCOP/C        | -            | -                 |
|                                                    |                               |              |            |                                                    |               |              | unit              |
| Declared capacity at outdoor temperatu             |                               | 2.00         |            | Back up heating capacity at outdoor te             |               |              |                   |
| heating / Average (-10°C)                          | Pdh<br>Pdh                    | 3.00<br>3.70 | kW<br>kW   | heating / Average (-10°C)                          | elbu          | -            | kW<br>kW          |
| heating / Warmer (2°C)<br>heating / Colder (-22°C) | Pan<br>Pdh                    | 3.70         | kW         | heating / Warmer (2°C)<br>heating / Colder (-22°C) | elbu<br>elbu  | -            | kW                |
| lieating / Colder (-22 C)                          | Full                          | -            | r v v      | fleating / Colder (-22 C)                          | eibu          | -            | K V V             |
| Declared capacity for cooling, at indoor           | temperature                   | 27(19)°C     | and        | Declared energy efficiency ratio, at ind           | or temper     | ature 27(1   | 9)°C and          |
| outdoor temperature Tj                             | Sinperature                   | (13)0        |            | outdoor temperature Tj                             | con tempere   |              | 5, <b>5</b> and   |
| Tj=35℃                                             | Pdc                           | 3.50         | kW         | Tj=35℃                                             | EERd          | 3.82         | 7-                |
| Tj=30°C                                            | Pdc                           | 2.58         | kW         | Tj=30℃                                             | EERd          | 5.82         | -                 |
| Tj=25℃                                             | Pdc                           | 1.60         | kW         | Tj=25°C                                            | EERd          | 11.20        | 7-                |
| Tj=20°C                                            | Pdc                           | 1.07         | kW         | Tj=20°C                                            | EERd          | 18.50        | <u> -</u>         |
|                                                    |                               |              |            |                                                    |               |              |                   |
| Declared capacity for heating / Average            | season, at i                  | ndoor        |            | Declared coefficient of performance / A            |               | ison, at in  | door              |
| temperature 20°C and outdoor tempera               |                               | 0.05         |            | temperature 20°C and outdoor tempera               |               | 0.50         | 7                 |
| Tj=-7℃<br>Tj=2℃                                    | Pdh<br>Pdh                    | 2.65         | kW<br>kW   | Tj=-7℃<br>Tj=2℃                                    | COPd<br>COPd  | 2.50 4.92    | -11               |
| Tj=2 ℃<br>Tj=7℃                                    | Pan<br>Pdh                    | 1.62         | kW         | Tj=2 C                                             | COPd          | 4.92<br>6.10 | -[                |
| Tj=7 ℃<br>Tj=12℃                                   | Pan<br>Pdh                    | 1.04         | kW         | Ti=12°C                                            | COPd          | 7.86         | -[                |
| Tj=bivalent temperature                            | Pdh                           | 3.00         | kW         | Tj=bivalent temperature                            | COPd          | 2.40         | -[                |
| Tj=operating limit                                 | Pdh                           | 3.00         | kW         | Tj=operating limit                                 | COPd          | 2.40         | -[                |
|                                                    | T GIT                         | 0.00         |            |                                                    | 001 0         | 2.40         |                   |
| Declared capacity for heating / Warmer             | season, at ir                 | ndoor        |            | Declared coefficient of performance / V            | Varmer sea    | son, at in   | door              |
| emperature 20°C and outdoor tempera                |                               |              |            | temperature 20°C and outdoor temperative           |               | ,            |                   |
| Гј=2°С                                             | Pdh                           | 3.70         | kW         | Tj=2°C                                             | COPd          | 2.80         | -                 |
| Tj=7℃                                              | Pdh                           | 2.38         | kW         | Tj=7°C                                             | COPd          | 5.20         | -                 |
| Tj=12°C                                            | Pdh                           | 1.16         | kW         | Tj=12°C                                            | COPd          | 7.86         | -                 |
| Tj=bivalent temperature                            | Pdh                           | 3.70         | kW         | Tj=bivalent temperature                            | COPd          | 2.80         | -                 |
| Tj=operating limit                                 | Pdh                           | 3.70         | kW         | Tj=operating limit                                 | COPd          | 2.80         | -                 |
| Declared capacity for heating / Colder s           | accor at inc                  | loor         |            | Declared coefficient of performance / C            | oldor oppo    | on ot ind    | or                |
| temperature 20°C and outdoor tempera               |                               | 1001         |            | temperature 20°C and outdoor temperature           |               | on, at mu    | 001               |
| Tj=-7℃                                             | Pdh                           | -            | kW         | Ti=-7°C                                            | COPd          | -            | ٦-                |
| Tj=2°C                                             | Pdh                           | -            | kW         | Tj=2°C                                             | COPd          | -            | -                 |
| Ti=7℃                                              | Pdh                           | -            | kW         | Tj=7℃                                              | COPd          | -            | -                 |
| Tj=12℃                                             | Pdh                           | -            | kW         | Tj=12°C                                            | COPd          | -            | -                 |
| Tj=bivalent temperature                            | Pdh                           | -            | kW         | Tj=bivalent temperature                            | COPd          | -            | -                 |
| Tj=operating limit                                 | Pdh                           | -            | kW         | Tj=operating limit                                 | COPd          | -            | -                 |
| Tj=-15℃                                            | Pdh                           | -            | kW         | Tj=-15°C                                           | COPd          | -            | -                 |
|                                                    |                               |              |            |                                                    |               |              |                   |
| Bivalent temperature                               | This                          |              | <b>1</b> % | Operating limit temperature                        | <b>T</b> - 1  | - 40         | <b>7</b> %        |
| heating / Average                                  | Tbiv                          | -10          | °C         | heating / Average                                  | Tol           | -10          | °C                |
| heating / Warmer                                   | Tbiv                          | 2            | °C         | heating / Warmer                                   | Tol           | 2            | °C                |
| neating / Colder                                   | Tbiv                          | -            | °C         | heating / Colder                                   | Tol           | -            | °C                |
| Cycling interval capacity                          |                               |              |            | Cycling interval efficiency                        |               |              |                   |
| or cooling                                         | Pcycc                         | -            | kW         | for cooling                                        | EERcyc        | -            | ٦-                |
| or heating                                         | Pcycc                         | -            | kW         | for heating                                        | COPcyc        | -            | ┥_                |
| g                                                  |                               | 1            | 1          |                                                    |               | 1            | 1                 |
| Degradation coefficient                            |                               |              |            | Degradation coefficient                            |               |              |                   |
| cooling                                            | Cdc                           | 0.25         | ]          | heating                                            | Cdh           | 0.25         | ]                 |
|                                                    |                               |              |            |                                                    |               |              |                   |
| Electric power input in power modes ot             |                               |              | 1.4/       | Annual electricity consumption                     | 0.00          | 4.40         |                   |
| off mode                                           | Poff                          | 4            | W          | cooling                                            | Qce           | 146          | kWh/a             |
| standby mode<br>thermostat-off mode                | Psb<br>Pto(cooling)           | 4            | W<br>W     | heating / Average<br>heating / Warmer              | Qhe<br>Qhe    | 895<br>863   | kWh/a<br>kWh/a    |
|                                                    | Pto(cooling)<br>Pto(heatling) | 10           | Ŵ          | heating / colder                                   | Qhe           | 000          | kWh/a             |
| crankcase heater mode                              | Pto(neatiing)<br>Pck          | 0            | Ŵ          | Incaring / colder                                  | QIIC          |              | Kvv11/d           |
|                                                    | 1 01                          |              | 1          | 1                                                  |               |              |                   |
| Capacity control(indicate one of three o           | ptions)                       |              |            | Other items                                        |               |              |                   |
|                                                    | ,                             |              |            | Sound power level(indoor)                          | Lwa           | 54           | dB(A)             |
|                                                    |                               |              |            | Sound power level (outdoor)                        | Lwa           | 61           | dB(A)             |
| fixed                                              | No                            |              |            | Global warming potential                           | GWP           | 675          | kgCO26            |
| staged                                             | No                            |              |            | Rated air flow(indoor)                             | -             | 678          | m <sup>3</sup> /h |
| variable                                           | Yes                           |              |            | Rated air flow(outdoor)                            | -             | 1890         | m³/h              |
|                                                    |                               |              |            |                                                    |               |              |                   |
|                                                    |                               |              |            | of its authorised representative.                  |               |              |                   |
|                                                    |                               |              |            | ng Europe, Ltd.                                    |               |              |                   |
|                                                    | uare, Stockl                  |              | xunage, M  | iddlesex, UB11 1ET, United Kingdom                 |               |              |                   |
|                                                    |                               |              |            |                                                    |               |              |                   |
|                                                    |                               |              | A 1101 C   | M Amsterdam, Netherlands                           |               |              |                   |

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### Model SRK20ZS-WT

| Information to identify the mode                                                                                                                                                                                                                                                                                                                                                                                          | (s) to which the infor                                                                                                                                                                                                                                      | mation rel                                                                                       | ates to:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | If function includes heating: Indicate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | the heating s                                                                                        | eason the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| Indoor unit model name                                                                                                                                                                                                                                                                                                                                                                                                    | SRK20ZS-V                                                                                                                                                                                                                                                   |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | information relates to. Indicated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Outdoor unit model name                                                                                                                                                                                                                                                                                                                                                                                                   | SRC20ZS-V                                                                                                                                                                                                                                                   | VA                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | heating season at a time. Include at le                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ast the heatir                                                                                       | ig season 'Average'.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                             |                                                                                                  |                                                                                                                                                                                                                                           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                                                                                                                                                                                                                                                                              |
| Function(indicate if present)                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                             |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| heating / Warmer (2°C)                                                                                                                                                                                                                                                                                                                                                                                                    | Pdh                                                                                                                                                                                                                                                         | 3.30                                                                                             | kW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | heating / Warmer (2°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | elbu                                                                                                 | - 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| Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling                                                                                                                                                                                                                                                                                             | Tbiv<br>Tbiv<br>Tbiv<br>Pcycc                                                                                                                                                                                                                               | 2                                                                                                | °C<br>°C<br>kW                                                                                                                                                                                                                            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| Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity                                                                                                                                                                                                                                                                                                            | Tbiv<br>Tbiv<br>Tbiv                                                                                                                                                                                                                                        | 2                                                                                                | ີ<br>ເ                                                                                                                                                                                                                                    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| Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling                                                                                                                                                                                                                                                                                             | Tbiv<br>Tbiv<br>Tbiv<br>Pcycc                                                                                                                                                                                                                               | 2                                                                                                | °C<br>°C<br>kW                                                                                                                                                                                                                            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| Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling<br>for heating                                                                                                                                                                                                                                                                              | Tbiv<br>Tbiv<br>Tbiv<br>Pcycc                                                                                                                                                                                                                               | 2                                                                                                | °C<br>°C<br>kW                                                                                                                                                                                                                            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| Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling<br>for heating<br>Degradation coefficient<br>cooling                                                                                                                                                                                                                                        | Tbiv<br>Tbiv<br>Tbiv<br>Pcycc<br>Pcych<br>Cdc                                                                                                                                                                                                               | 2<br>-<br>-<br>-<br>0.25                                                                         | °C<br>°C<br>kW                                                                                                                                                                                                                            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heating<br>Degradation coefficient<br>heating                                                                                                                                                                                                                                                                                                                                                                                                                                  | Tol<br>Tol<br>Tol<br>EERcyc<br>COPcyc                                                                | -10 °C<br>2 °C<br>- °C                                                                                                                                                                                                                                                                                                                                                                                                                           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| Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling<br>for heating<br>Degradation coefficient<br>cooling<br>Electric power input in power m                                                                                                                                                                                                     | Tbiv<br>Tbiv<br>Tbiv<br>Pcycc<br>Pcych<br>Cdc<br>odes other than 'activ                                                                                                                                                                                     | 2<br>-<br>-<br>-<br>0.25                                                                         | °c<br> °c<br> kW<br> kW<br>                                                                                                                                                                                                               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for heating         Degradation coefficient         heating         Annual electricity consumption                                                                                                                                                                                                                                                                                                                                                        | Tol<br>Tol<br>Tol<br>EERcyc<br>COPcyc                                                                | -10 °C<br>2 °C<br>- °C<br>- °C                                                                                                                                                                                                                                                                                                                                                                                                                                        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| Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling<br>for heating<br>Degradation coefficient<br>cooling<br>Electric power input in power m<br>off mode                                                                                                                                                                                         | Tbiv<br>Tbiv<br>Tbiv<br>Pcycc<br>Pcych<br>Cdc<br>Cdc<br>odes other than 'activ<br>Poff                                                                                                                                                                      | 2<br>-<br>-<br>0.25<br>//e mode'                                                                 | ]*c<br>]*c<br>]*w<br>]kw<br>]<br>]w                                                                                                                                                                                                       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for heating         Degradation coefficient         heating         Annual electricity consumption         cooling                                                                                                                                                                                                                                                                                                                                        | Tol<br>Tol<br>Tol<br>EERcyc<br>COPcyc<br>Cdh                                                         | -10 °C<br>2 °C<br>- °C<br>- °C<br><br><br><br><br>83 kWh/a                                                                                                                                                                                                                                                                                                                                                                                                            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| Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling<br>for heating<br>Degradation coefficient<br>cooling<br>Electric power input in power m<br>off mode<br>standby mode                                                                                                                                                                         | Tbiv<br>Tbiv<br>Tbiv<br>Pcycc<br>Pcych<br>Cdc<br>Cdc<br>odes other than 'activ<br>Poff<br>Psb                                                                                                                                                               | 2<br>-<br>-<br>0.25<br>/e mode'<br>4<br>4                                                        | ]*C<br> *C<br> *W<br> *W<br> -<br> -<br> W<br> W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval efficiency<br>for cooling<br>for heating<br>Degradation coefficient<br>heating<br>Annual electricity consumption<br>cooling<br>heating / Average                                                                                                                                                                                                                                                                                                                                                                | Tol<br>Tol<br>Tol<br>EERcyc<br>COPcyc<br>Cdh<br>Qce<br>Qhe                                           | -10 °C<br>2 °C<br>- ° |
| Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling<br>for heating<br>Degradation coefficient<br>cooling<br>Electric power input in power m<br>off mode                                                                                                                                                                                         | Tbiv<br>Tbiv<br>Tbiv<br>Pcycc<br>Pcych<br>Cdc<br>Odes other than 'activ<br>Poff<br>Psb<br>Pto(cooling)                                                                                                                                                      | 2<br>-<br>-<br>0.25<br>/e mode'<br>4<br>4<br>10                                                  | °¢<br> °¢<br> k₩<br> k₩<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | heating / Average         heating / Warmer         heating / Colder         Cycling interval efficiency         for cooling         for heating         Degradation coefficient         heating         Annual electricity consumption         cooling         heating / Average         heating / Warmer                                                                                                                                                                                                                                                                                     | Tol<br>Tol<br>Tol<br>EERcyc<br>COPcyc<br>Cdh<br>Qce<br>Qhe<br>Qhe                                    | -10         °C           2         °C           -         °C           -         °C           -         -           0.25         -           83         kWh/a           793         kWh/a           797         kWh/a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling<br>for heating<br>Degradation coefficient<br>cooling<br>Electric power input in power m<br>off mode<br>standby mode<br>thermostat-off mode                                                                                                                                                  | Tbiv<br>Tbiv<br>Tbiv<br>Pcycc<br>Pcych<br>Cdc<br>Odes other than 'activ<br>Poff<br>Psb<br>Pto(cooling)<br>Pto(heatling)                                                                                                                                     | 2<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | °C<br> °C<br> KW<br> KW<br> KW<br> <br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval efficiency<br>for cooling<br>for heating<br>Degradation coefficient<br>heating<br>Annual electricity consumption<br>cooling<br>heating / Average                                                                                                                                                                                                                                                                                                                                                                | Tol<br>Tol<br>Tol<br>EERcyc<br>COPcyc<br>Cdh<br>Qce<br>Qhe                                           | -10 °C<br>2 °C<br>- ° |
| Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling<br>for heating<br>Degradation coefficient<br>cooling<br>Electric power input in power m<br>off mode<br>standby mode                                                                                                                                                                         | Tbiv<br>Tbiv<br>Tbiv<br>Pcycc<br>Pcych<br>Cdc<br>Odes other than 'activ<br>Poff<br>Psb<br>Pto(cooling)                                                                                                                                                      | 2<br>-<br>-<br>0.25<br>/e mode'<br>4<br>4<br>10                                                  | °¢<br> °¢<br> k₩<br> k₩<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | heating / Average         heating / Warmer         heating / Colder         Cycling interval efficiency         for cooling         for heating         Degradation coefficient         heating         Annual electricity consumption         cooling         heating / Average         heating / Warmer                                                                                                                                                                                                                                                                                     | Tol<br>Tol<br>Tol<br>EERcyc<br>COPcyc<br>Cdh<br>Qce<br>Qhe<br>Qhe                                    | -10         °C           2         °C           -         °C           -         °C           -         -           0.25         -           83         kWh/a           793         kWh/a           797         kWh/a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling<br>for heating<br>Degradation coefficient<br>cooling<br>Electric power input in power m<br>off mode<br>standby mode<br>thermostat-off mode<br>crankcase heater mode                                                                                                                         | Tbiv<br>Tbiv<br>Tbiv<br>Pcycc<br>Pcych<br>Cdc<br>Odes other than 'activ<br>Poff<br>Psb<br>Plo(cooling)<br>Pto(heatling)<br>Pck                                                                                                                              | 2<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | °C<br> °C<br> KW<br> KW<br> KW<br> <br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 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 / colder                                                                                                                                                                                                                                                            | Tol<br>Tol<br>Tol<br>EERcyc<br>COPcyc<br>Cdh<br>Qce<br>Qhe<br>Qhe                                    | -10         °C           2         °C           -         °C           -         °C           -         -           0.25         -           83         kWh/a           793         kWh/a           797         kWh/a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling<br>for heating<br>Degradation coefficient<br>cooling<br>Electric power input in power m<br>off mode<br>standby mode<br>thermostat-off mode                                                                                                                                                  | Tbiv<br>Tbiv<br>Tbiv<br>Pcycc<br>Pcych<br>Cdc<br>Odes other than 'activ<br>Poff<br>Psb<br>Plo(cooling)<br>Pto(heatling)<br>Pck                                                                                                                              | 2<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | °C<br> °C<br> KW<br> KW<br> KW<br> <br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | heating / Average         heating / Warmer         heating / Colder         Cycling interval efficiency         for cooling         for heating         Degradation coefficient         heating         Annual electricity consumption         cooling         heating / Average         heating / Warmer                                                                                                                                                                                                                                                                                     | Tol<br>Tol<br>Tol<br>EERcyc<br>COPcyc<br>Cdh<br>Qce<br>Qhe<br>Qhe                                    | -10         °C           2         °C           -         °C           -         °C           -         -           0.25         -           83         kWh/a           793         kWh/a           797         kWh/a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling<br>for heating<br>Degradation coefficient<br>cooling<br>Electric power input in power m<br>off mode<br>standby mode<br>thermostat-off mode<br>crankcase heater mode                                                                                                                         | Tbiv<br>Tbiv<br>Tbiv<br>Pcycc<br>Pcych<br>Cdc<br>Odes other than 'activ<br>Poff<br>Psb<br>Plo(cooling)<br>Pto(heatling)<br>Pck                                                                                                                              | 2<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | °C<br> °C<br> KW<br> KW<br> KW<br> <br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 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 / colder                                                                                                                                                                                                                                                            | Tol<br>Tol<br>Tol<br>EERcyc<br>COPcyc<br>Cdh<br>Qce<br>Qhe<br>Qhe<br>Qhe<br>Qhe                      | -10         °C           2         °C           -         °C           -         °C           -         -           0.25         -           83         kWh/a           793         kWh/a           797         kWh/a           -         kWh/a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling<br>for heating<br>Degradation coefficient<br>cooling<br>Electric power input in power m<br>off mode<br>standby mode<br>thermostat-off mode<br>crankcase heater mode                                                                                                                         | Tbiv<br>Tbiv<br>Tbiv<br>Pcycc<br>Pcych<br>Cdc<br>Odes other than 'activ<br>Poff<br>Psb<br>Plo(cooling)<br>Pto(heatling)<br>Pck                                                                                                                              | 2<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | °C<br> °C<br> KW<br> KW<br> KW<br> <br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 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 / colder         Other items         Sound power level(indoor)                                                                                                                                                                                                      | Tol<br>Tol<br>Tol<br>COPcyc<br>COPcyc<br>Cdh<br>Qce<br>Qhe<br>Qhe<br>Qhe<br>Qhe<br>Lwa               | -10         °C           2         °C           -         °C           -         °C           -         -           0.25         -           0.25         -           83         kWh/a           793         kWh/a           797         kWh/a           48         dB(A)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling<br>Degradation coefficient<br>cooling<br>Electric power input in power m<br>off mode<br>standby mode<br>thermostat-off mode<br>crankcase heater mode<br>Capacity control(indicate one of                                                                                                    | Tbiv<br>Tbiv<br>Tbiv<br>Pcycc<br>Pcych<br>Cdc<br>Odes other than 'activ<br>Poff<br>Psb<br>Pto(cooling)<br>Pto(coling)<br>Pto(coling)<br>Pto(cooling)<br>Pto(cooling)<br>Pto(cooling)<br>Pto(cooling)<br>Pto(cooling)<br>Pto(seatting)<br>Pck                | 2<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | °C<br> °C<br> KW<br> KW<br> KW<br> <br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | heating / Average         heating / Warmer         heating / Colder         Cycling interval efficiency         for cooling         for heating         Degradation coefficient         heating         Annual electricity consumption         cooling         heating / Average         heating / Varmer         heating / colder         Other items         Sound power level(indoor)         Sound power level(outdoor)                                                                                                                                                                   | Tol<br>Tol<br>Tol<br>COPcyc<br>Cdh<br>Qhe<br>Qhe<br>Qhe<br>Qhe<br>Qhe<br>Lwa<br>Lwa                  | -10         ℃           2         ℃           -         ℃           -         ℃           -         ℃           -         ℃           0.25         ⁻           0.25         −           83         kWh/a           793         kWh/a           797         kWh/a           -         kWh/a           48         dB(A)           56         dB(A)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling<br>for heating<br>Degradation coefficient<br>cooling<br>Electric power input in power m<br>off mode<br>standby mode<br>thermostat-off mode<br>crankcase heater mode<br>Capacity control(indicate one of<br>fixed                                                                            | Tbiv<br>Tbiv<br>Tbiv<br>Pcycc<br>Pcych<br>Cdc<br>Odes other than 'activ<br>Poff<br>Psb<br>Pto(cooling)<br>Pto(heatting)<br>Pck                                                                                                                              | 2<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | °C<br> °C<br> KW<br> KW<br> KW<br> <br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | heating / Average         heating / Warmer         heating / Colder         Cycling interval efficiency         for cooling         for heating         Degradation coefficient         heating / Average         heating / Average         heating / Varmer         heating / Other items         Sound power level(indoor)         Sound power level(outdoor)         Global warming potential                                                                                                                                                                                              | Tol<br>Tol<br>Tol<br>COPcyc<br>Cdh<br>Qce<br>Qhe<br>Qhe<br>Qhe<br>Qhe<br>Lwa<br>Lwa<br>GWP           | -10         °C           2         °C           -         °C           -         °C           -         -           0.25         -           0.25         -           83         kWh/a           793         kWh/a           797         kWh/a           -         kWh/a           66         dB(A)           675         kgCO2ec                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling<br>Degradation coefficient<br>cooling<br>Electric power input in power m<br>off mode<br>standby mode<br>thermostat-off mode<br>crankcase heater mode<br>Capacity control(indicate one of<br>fixed<br>staged<br>variable                                                                     | Tbiv<br>Tbiv<br>Tbiv<br>Pcycc<br>Pcych<br>Cdc<br>odes other than 'activ<br>Poff<br>Psb<br>Pto(cooling)<br>Pto(heatiling)<br>Pck                                                                                                                             | 2<br>-<br>-<br>-<br>e mode'<br>4<br>10<br>11<br>0                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | heating / Average         heating / Warmer         heating / Colder         Cycling interval efficiency         for cooling         for heating         Degradation coefficient         heating         Annual electricity consumption         cooling         heating / Average         heating / Varmer         heating / colder         Other items         Sound power level(indoor)         Sound power level(outdoor)         Global warming potential         Rated air flow(indoor)         Rated air flow(outdoor)                                                                   | Tol<br>Tol<br>Tol<br>EERcyc<br>COPcyc<br>Cdh<br>Qce<br>Qhe<br>Qhe<br>Qhe<br>Qhe<br>Lwa<br>Lwa<br>GWP | -10         °C           2         °C           -         °C           -         °C           -         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.26         -           0.27         -           0.28         -           0.29         -           0.20           0.20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling<br>for heating<br>Degradation coefficient<br>cooling<br>Electric power input in power m<br>off mode<br>standby mode<br>thermostat-off mode<br>crankcase heater mode<br>Capacity control(indicate one of<br>fixed<br>staged<br>variable<br>Contact details for obtaining                     | Tbiv<br>Tbiv<br>Tbiv<br>Pcycc<br>Pcych<br>Cdc<br>odes other than 'activ<br>Poff<br>Psb<br>Pto(cooling)<br>Pto(heatting)<br>Pck<br>i three options)                                                                                                          | 2<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | °C<br>°C<br>kW<br>kW<br>]-<br>W<br>W<br>W<br>W<br>W<br>W<br>iacturer or                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | heating / Average         heating / Warmer         heating / Colder         Cycling interval efficiency         for cooling         for heating         Degradation coefficient         heating /         Annual electricity consumption         cooling         heating / Average         heating / Varmer         heating / colder         Other items         Sound power level(indoor)         Sound power level(outdoor)         Global warming potential         Rated air flow(indoor)         Rated air flow(outdoor)         of its authorised representative.                       | Tol<br>Tol<br>Tol<br>EERcyc<br>COPcyc<br>Cdh<br>Qce<br>Qhe<br>Qhe<br>Qhe<br>Qhe<br>Lwa<br>Lwa<br>GWP | -10         °C           2         °C           -         °C           -         °C           -         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.26         -           0.27         -           0.28         -           0.29         -           0.20           0.20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling<br>for heating<br>Degradation coefficient<br>cooling<br>Electric power input in power m<br>off mode<br>standby mode<br>thermostat-off mode<br>crankcase heater mode<br>Capacity control(indicate one of<br>fixed<br>staged<br>variable<br>Contact details for obtaining                     | Tbiv<br>Tbiv<br>Tbiv<br>Pcycc<br>Pcych<br>Cdc<br>odes other than 'activ<br>Poff<br>Psb<br>Pto(cooling)<br>Pto(heatling)<br>Pck<br>three options)<br>No<br>Yes<br>Vame and address of<br><i>l</i> itsubishi Heavy Indu                                       | 2<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       % <t< td=""><td>heating / Average         heating / Warmer         heating / Colder         Cycling interval efficiency         for cooling         for heating         Degradation coefficient         heating         Annual electricity consumption         cooling         heating / Average         heating / Varmer         heating / colder         Other items         Sound power level(indoor)         Sound power level(outdoor)         Global warming potential         Rated air flow(indoor)         Rated air flow(outdoor)         of its authorised representative.         ng Europe, Ltd.</td><td>Tol<br/>Tol<br/>Tol<br/>EERcyc<br/>COPcyc<br/>Cdh<br/>Qce<br/>Qhe<br/>Qhe<br/>Qhe<br/>Qhe<br/>Lwa<br/>Lwa<br/>GWP</td><td>-10         °C           2         °C           -         °C           -         °C           -         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.26         -           0.27         -           0.28         -           0.29         -           0.20           0.20</td></t<> | heating / Average         heating / Warmer         heating / Colder         Cycling interval efficiency         for cooling         for heating         Degradation coefficient         heating         Annual electricity consumption         cooling         heating / Average         heating / Varmer         heating / colder         Other items         Sound power level(indoor)         Sound power level(outdoor)         Global warming potential         Rated air flow(indoor)         Rated air flow(outdoor)         of its authorised representative.         ng Europe, Ltd. | Tol<br>Tol<br>Tol<br>EERcyc<br>COPcyc<br>Cdh<br>Qce<br>Qhe<br>Qhe<br>Qhe<br>Qhe<br>Lwa<br>Lwa<br>GWP | -10         °C           2         °C           -         °C           -         °C           -         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.26         -           0.27         -           0.28         -           0.29         -           0.20           0.20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling<br>for heating<br>Degradation coefficient<br>cooling<br>Electric power input in power m<br>off mode<br>standby mode<br>thermostat-off mode<br>crankcase heater mode<br>Capacity control(indicate one of<br>fixed<br>staged<br>variable<br>Contact details for obtaining<br>more information | Tbiv<br>Tbiv<br>Tbiv<br>Pcycc<br>Pcych<br>Cdc<br>odes other than 'activ<br>Poff<br>Psb<br>Pto(cooling)<br>Pto(heatling)<br>Pck<br>three options)<br>three options)                                                                                          | 2<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       %       % <t< td=""><td>heating / Average         heating / Warmer         heating / Colder         Cycling interval efficiency         for cooling         for heating         Degradation coefficient         heating /         Annual electricity consumption         cooling         heating / Average         heating / Varmer         heating / colder         Other items         Sound power level(indoor)         Sound power level(outdoor)         Global warming potential         Rated air flow(indoor)         Rated air flow(outdoor)         of its authorised representative.</td><td>Tol<br/>Tol<br/>Tol<br/>EERcyc<br/>COPcyc<br/>Cdh<br/>Qce<br/>Qhe<br/>Qhe<br/>Qhe<br/>Qhe<br/>Lwa<br/>Lwa<br/>GWP</td><td>-10         °C           2         °C           -         °C           -         °C           -         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.26         -           0.27         -           0.28         -           0.29         -           0.20           0.20</td></t<>                       | heating / Average         heating / Warmer         heating / Colder         Cycling interval efficiency         for cooling         for heating         Degradation coefficient         heating /         Annual electricity consumption         cooling         heating / Average         heating / Varmer         heating / colder         Other items         Sound power level(indoor)         Sound power level(outdoor)         Global warming potential         Rated air flow(indoor)         Rated air flow(outdoor)         of its authorised representative.                       | Tol<br>Tol<br>Tol<br>EERcyc<br>COPcyc<br>Cdh<br>Qce<br>Qhe<br>Qhe<br>Qhe<br>Qhe<br>Lwa<br>Lwa<br>GWP | -10         °C           2         °C           -         °C           -         °C           -         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.26         -           0.27         -           0.28         -           0.29         -           0.20           0.20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling<br>Degradation coefficient<br>cooling<br>Electric power input in power m<br>off mode<br>standby mode<br>thermostat-off mode<br>crankcase heater mode<br>Capacity control(indicate one of<br>fixed<br>staged<br>variable<br>Contact details for obtaining<br>more information                | Tbiv<br>Tbiv<br>Tbiv<br>Pcycc<br>Pcych<br>Cdc<br>odes other than 'activ<br>Poff<br>Psb<br>Pto(cooling)<br>Pto(heatiing)<br>Pck<br>Three options)<br>No<br>Yes<br>Vame and address of<br>Alisubishi Heavy Indu<br>o The Square, Stockke<br>AHIAE SERVICES B. | 2<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | °C<br>°C<br>kW<br>kW<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | heating / Average         heating / Warmer         heating / Colder         Cycling interval efficiency         for cooling         for heating         Degradation coefficient         heating         Annual electricity consumption         cooling         heating / Average         heating / Varmer         heating / colder         Other items         Sound power level(indoor)         Sound power level(outdoor)         Global warming potential         Rated air flow(indoor)         Rated air flow(outdoor)         of its authorised representative.         ng Europe, Ltd. | Tol<br>Tol<br>Tol<br>EERcyc<br>COPcyc<br>Cdh<br>Qce<br>Qhe<br>Qhe<br>Qhe<br>Qhe<br>Lwa<br>Lwa<br>GWP | -10         °C           2         °C           -         °C           -         °C           -         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.26         -           0.27         -           0.28         -           0.29         -           0.20           0.20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

| RWA000Z274 /c | X |
|---------------|---|
|---------------|---|

### Model SRK25ZS-WT

| Information to identify the model(s) t   | o which the infor | mation rel   | ates to:                | If function includes heating: Indicate th  | he heating se  | eason the              |
|------------------------------------------|-------------------|--------------|-------------------------|--------------------------------------------|----------------|------------------------|
| Indoor unit model name                   | SRK25ZS-V         |              |                         | information relates to. Indicated value    |                |                        |
| Outdoor unit model name                  | SRC25ZS-V         | NA2          |                         | heating season at a time. Include at lea   | ast the heatin | ng season 'Average'.   |
|                                          |                   |              |                         |                                            |                |                        |
| Function(indicate if present)            |                   |              |                         | Average(mandatory)                         | Yes            |                        |
| cooling                                  | Yes               |              |                         | Warmer(if designated)                      | Yes            |                        |
| heating                                  | Yes               |              |                         | Colder(if designated)                      | No             |                        |
| Itom                                     | symbol            | valuo        | unit                    | Item                                       | symbol         | value class            |
| Item<br>Design load                      | symbol            | value        | unit                    | Seasonal efficiency and energy efficiency  | symbol         | value class            |
| cooling                                  | Pdesignc          | 2.50         | kW                      | cooling                                    | SEER           | 8.50 A+++              |
| heating / Average                        | Pdesignh          | 2.70         | kW                      | heating / Average                          | SCOP/A         | 4.70 A++               |
| heating / Warmer                         | Pdesignh          | 3.30         | kW                      | heating / Warmer                           | SCOP/W         |                        |
| heating / Colder                         | Pdesignh          | -            | kW                      | heating / Colder                           | SCOP/C         |                        |
|                                          |                   |              |                         | <u> </u>                                   |                | unit                   |
| Declared capacity at outdoor temper      | rature Tdesignh   |              | _                       | Back up heating capacity at outdoor to     | emperature 7   | Tdesignh               |
| heating / Average (-10°C)                | Pdh               | 2.70         | kW                      | heating / Average (-10°C)                  | elbu           | - kW                   |
| heating / Warmer (2°C)                   | Pdh               | 3.30         | kW                      | heating / Warmer (2°C)                     | elbu           | - kW                   |
| heating / Colder (-22°C)                 | Pdh               | -            | kW                      | heating / Colder (-22°C)                   | elbu           | - kW                   |
|                                          |                   | -            |                         | 7                                          |                | -                      |
| Declared capacity for cooling, at inde   | por temperature   | 27(19)°C a   | and                     | Declared energy efficiency ratio, at inc   | loor tempera   | ature 27(19)°C and     |
| outdoor temperature Tj                   | Dela              | 0.50         | 1.447                   | outdoor temperature Tj                     |                | 4.02                   |
| Tj=35℃                                   | Pdc<br>Pdc        | 2.50<br>1.80 | kW<br>kW                | Tj=35°C                                    | EERd<br>EERd   | 4.03 -<br>6.45 -       |
| Tj=30°C                                  |                   | 1.00         |                         | Tj=30°C                                    |                | 11.80                  |
| Tj=25℃<br>Tj=20℃                         | Pdc<br>Pdc        | 1.10         | kW<br>kW                | Tj=25°C<br>Tj=20°C                         | EERd<br>EERd   | 18.20 -                |
| 1j-20 C                                  | FUC               | 1.10         | KVV                     | 1j-20 C                                    | EERu           | 10.20 -                |
| Declared capacity for heating / Avera    | ane season at ir  | ndoor        |                         | Declared coefficient of performance /      | Average sea    | ason at indoor         |
| temperature 20°C and outdoor temp        |                   |              |                         | temperature 20°C and outdoor temper        |                |                        |
| Tj=-7°C                                  | Pdh               | 2.40         | kW                      | Tj=-7°C                                    | COPd           | 2.50 -                 |
| Tj=2°C                                   | Pdh               | 1.40         | kW                      | Tj=2°C                                     | COPd           | 4.92 -                 |
| Tj=7°C                                   | Pdh               | 0.95         | kW                      | Tj=7℃                                      | COPd           | 6.15 -                 |
| Tj=12°C                                  | Pdh               | 1.10         | kW                      | Tj=12℃                                     | COPd           | 7.86 -                 |
| Tj=bivalent temperature                  | Pdh               | 2.70         | kW                      | Tj=bivalent temperature                    | COPd           | 2.40 -                 |
| Tj=operating limit                       | Pdh               | 2.70         | kW                      | Tj=operating limit                         | COPd           | 2.40 -                 |
|                                          |                   |              |                         |                                            |                |                        |
| Declared capacity for heating / Warr     |                   | ndoor        |                         | Declared coefficient of performance /      |                | ison, at indoor        |
| temperature 20°C and outdoor temp        |                   |              |                         | temperature 20°C and outdoor temper        |                |                        |
| Tj=2°C                                   | Pdh               | 3.30         | kW                      | Tj=2°C                                     | COPd           | 2.70 -                 |
| Tj=7°C                                   | Pdh               | 2.10         | kW                      | Tj=7°C                                     | COPd           | 5.23 -                 |
| Tj=12°C                                  | Pdh               | 1.10         | kW                      | Tj=12°C                                    | COPd           | 7.86 -                 |
| Tj=bivalent temperature                  | Pdh               | 3.30         | kW                      | Tj=bivalent temperature                    | COPd           | 2.70 -                 |
| Tj=operating limit                       | Pdh               | 3.30         | kW                      | Tj=operating limit                         | COPd           | 2.70 -                 |
| Declared capacity for heating / Cold     | or soason at ind  | oor          |                         | Declared coefficient of performance /      | Coldor coos    | on at indoor           |
| temperature 20°C and outdoor temp        |                   | 001          |                         | temperature 20°C and outdoor temper        |                | on, at muoor           |
| Tj=-7°C                                  | Pdh               | -            | kW                      | Tj=-7°C                                    | COPd           | <b>-</b>               |
| 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           | • -                    |
| Tj=-15℃                                  | Pdh               | -            | kW                      | Tj=-15℃                                    | COPd           |                        |
|                                          |                   |              |                         |                                            |                |                        |
| Bivalent temperature                     |                   |              | -                       | Operating limit temperature                | -              |                        |
| heating / Average                        | Tbiv              | -            | °C                      | heating / Average                          | Tol            | -10 °C                 |
| heating / Warmer                         | Tbiv              | 2            | °C                      | heating / Warmer                           | Tol            | <b>2</b> °C            |
| heating / Colder                         | Tbiv              | -            | °C                      | heating / Colder                           | Tol            | - °C                   |
|                                          |                   |              |                         |                                            |                |                        |
| Cycling interval capacity<br>for cooling | Pcycc             |              | kW                      | Cycling interval efficiency<br>for cooling | EERcyc         |                        |
| for heating                              | Pcych             |              | kW                      | for heating                                | COPcvc         |                        |
| lor heating                              | FUYUN             | -            | KVV                     | for fleating                               | COFCyc         |                        |
| Degradation coefficient                  |                   |              |                         | Degradation coefficient                    |                |                        |
| cooling                                  | Cdc               | 0.25         | ]-                      | heating                                    | Cdh            | 0.25 -                 |
|                                          |                   |              |                         |                                            | -              |                        |
| Electric power input in power modes      |                   |              | -                       | Annual electricity consumption             |                |                        |
| off mode                                 | Poff              | 4            | W                       | cooling                                    | Qce            | 103 kWh/a              |
| standby mode                             | Psb               | 4            | W                       | heating / Average                          | Qhe            | 804 kWh/a              |
| thermostat-off mode                      | Pto(cooling)      | 10           | W                       | heating / Warmer                           | Qhe            | 784 kWh/a              |
| anankanan berten meri                    | Pto(heatling)     | 11           | W                       | heating / colder                           | Qhe            | - kWh/a                |
| crankcase heater mode                    | Pck               | 0            | W                       | 1                                          |                |                        |
| Capacity control(indicate one of thre    | e options)        |              |                         | Other items                                |                |                        |
| Capacity control(indicate one of time    | e options)        |              |                         | Sound power level(indoor)                  | Lwa            | <b>50</b> dB(A)        |
|                                          |                   |              |                         | Sound power level(indoor)                  | Lwa            | 56 dB(A)               |
| fixed                                    | No                |              |                         | Global warming potential                   | GWP            | 675 kgCO2eq.           |
| staged                                   | No                |              |                         | Rated air flow(indoor)                     | -              | 594 m <sup>3</sup> /h  |
| variable                                 | Yes               |              |                         | Rated air flow(outdoor)                    | -              | 1644 m <sup>3</sup> /h |
|                                          |                   |              |                         |                                            |                |                        |
|                                          |                   |              |                         | r of its authorised representative.        |                |                        |
|                                          | bishi Heavy Indu  |              |                         |                                            |                |                        |
|                                          |                   |              | xbridge, N              | liddlesex, UB11 1ET, United Kingdom        |                |                        |
|                                          | E SERVICES B.     |              | A 4404 -                | M Amotordom Nathanlard                     |                |                        |
| Herik                                    | erbergweg 238,    | Luna Arer    | и <del>л</del> , 1101 ( | CM Amsterdam, Netherlands                  |                |                        |

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### Model SRK35ZS-WT

| Information to identify the model(s) to v                                          |                      |              | ates to:   | If function includes heating: Indicate the                                             |                    |                                       |
|------------------------------------------------------------------------------------|----------------------|--------------|------------|----------------------------------------------------------------------------------------|--------------------|---------------------------------------|
| Indoor unit model name<br>Outdoor unit model name                                  | SRK35ZS-<br>SRC35ZS- |              |            | information relates to. Indicated values<br>heating season at a time. Include at least |                    |                                       |
|                                                                                    |                      |              |            |                                                                                        |                    | с с                                   |
| Function(indicate if present)<br>cooling                                           | Yes                  |              |            | Average(mandatory)<br>Warmer(if designated)                                            | Yes<br>Yes         |                                       |
| heating                                                                            | Yes                  |              |            | Colder(if designated)                                                                  | No                 |                                       |
| Itom                                                                               | symbol               | valuo        | unit       | Itom                                                                                   | symbol             | value class                           |
| Item<br>Design load                                                                | symbol               | value        | unit       | Item<br>Seasonal efficiency and energy efficience                                      | symbol<br>cy class | value class                           |
| cooling                                                                            | Pdesignc             | 3.50         | kW         | cooling                                                                                | SEER               | 8.40 A++                              |
| heating / Average                                                                  | Pdesignh             | 3.00         | kW         | heating / Average                                                                      | SCOP/A             | 4.70 A++                              |
| heating / Warmer<br>heating / Colder                                               | Pdesignh<br>Pdesignh | 3.70         | kW<br>kW   | heating / Warmer<br>heating / Colder                                                   | SCOP/W<br>SCOP/C   |                                       |
|                                                                                    | i doolgiiii          |              |            |                                                                                        |                    | unit                                  |
| Declared capacity at outdoor temperate                                             |                      | 2.00         |            | Back up heating capacity at outdoor ten                                                |                    |                                       |
| heating / Average (-10°C)<br>heating / Warmer (2°C)                                | Pdh<br>Pdh           | 3.00         | kW<br>kW   | heating / Average (-10°C)<br>heating / Warmer (2°C)                                    | elbu<br>elbu       | - kW<br>- kW                          |
| heating / Colder (-22°C)                                                           | Pdh                  | -            | kW         | heating / Colder (-22°C)                                                               | elbu               | - kW                                  |
|                                                                                    |                      |              |            |                                                                                        |                    |                                       |
| Declared capacity for cooling, at indoor<br>outdoor temperature Tj                 | temperature          | 27(19)°C     | and        | Declared energy efficiency ratio, at indo<br>outdoor temperature Tj                    | or tempera         | ature 27(19)°C and                    |
| Tj=35°C                                                                            | Pdc                  | 3.50         | kW         | Tj=35°C                                                                                | EERd               | 3.82 -                                |
| Tj=30℃                                                                             | Pdc                  | 2.58         | kW         | Tj=30°C                                                                                | EERd               | 5.82 -                                |
| Tj=25°C                                                                            | Pdc                  | 1.60         | kW         | Tj=25℃                                                                                 | EERd               | 11.20 -                               |
| Tj=20°C                                                                            | Pdc                  | 1.07         | kW         | Tj=20°C                                                                                | EERd               | 18.50 -                               |
| Declared capacity for heating / Average                                            | season at i          | ndoor        |            | Declared coefficient of performance / Av                                               | erane sea          | ason at indoor                        |
| temperature 20°C and outdoor temperat                                              |                      |              |            | temperature 20°C and outdoor temperat                                                  |                    |                                       |
| Tj=-7°C                                                                            | Pdh                  | 2.65         | kW         | Tj=-7°C                                                                                | COPd               | 2.50 -                                |
| Tj=2°C                                                                             | Pdh                  | 1.62         | kW         | Tj=2°C                                                                                 | COPd               | 4.92 -                                |
| Tj=7°C<br>Tj=12°C                                                                  | Pdh<br>Pdh           | 1.04         | kW<br>kW   | Tj=7°C<br>Tj=12℃                                                                       | COPd<br>COPd       | 6.10<br>7.86 -                        |
| Tj=bivalent temperature                                                            | Pdh                  | 3.00         | kW         | Tj=bivalent temperature                                                                | COPd               | 2.40 -                                |
| Tj=operating limit                                                                 | Pdh                  | 3.00         | kW         | Tj=operating limit                                                                     | COPd               | 2.40 -                                |
|                                                                                    |                      |              |            |                                                                                        |                    |                                       |
| Declared capacity for heating / Warmer<br>temperature 20°C and outdoor temperative |                      | 10001        |            | Declared coefficient of performance / W<br>temperature 20°C and outdoor temperation    |                    | ison, at indoor                       |
| Tj=2°C                                                                             | Pdh                  | 3.70         | kW         | Tj=2°C                                                                                 | COPd               | 2.80 -                                |
| Tj=7°C                                                                             | Pdh                  | 2.38         | kW         | Tj=7°C                                                                                 | COPd               | 5.20 -                                |
| Tj=12°C                                                                            | Pdh                  | 1.16         | kW         | Tj=12°C                                                                                | COPd               | 7.86 -                                |
| Tj=bivalent temperature<br>Tj=operating limit                                      | Pdh<br>Pdh           | 3.70<br>3.70 | kW<br>kW   | Tj=bivalent temperature<br>Tj=operating limit                                          | COPd<br>COPd       | 2.80 -<br>2.80 -                      |
|                                                                                    | T UIT                | 3.70         | KVV        |                                                                                        | COL                | 2.00                                  |
| Declared capacity for heating / Colder                                             |                      | loor         |            | Declared coefficient of performance / Co                                               |                    | on, at indoor                         |
| temperature 20°C and outdoor tempera                                               |                      |              | 1.347      | temperature 20°C and outdoor temperat                                                  |                    |                                       |
| Tj=-7℃<br>Tj=2℃                                                                    | Pdh<br>Pdh           | -            | kW<br>kW   | Tj=-7℃<br>Tj=2℃                                                                        | COPd<br>COPd       |                                       |
| Tj=7°C                                                                             | Pdh                  | -            | kW         | Tj=2°C                                                                                 | COPd               | -                                     |
| Tj=12℃                                                                             | Pdh                  | -            | kW         | Tj=12°C                                                                                | COPd               |                                       |
| Tj=bivalent temperature                                                            | Pdh                  | -            | kW         | Tj=bivalent temperature                                                                | COPd               |                                       |
| Tj=operating limit<br>Tj=-15°C                                                     | Pdh<br>Pdh           | -            | kW<br>kW   | Tj=operating limit<br>Tj=-15°C                                                         | COPd<br>COPd       |                                       |
| 1]15 C                                                                             | Full                 | -            | KVV        | 1]15 C                                                                                 | COFU               |                                       |
| Bivalent temperature                                                               |                      |              | -          | Operating limit temperature                                                            |                    |                                       |
| heating / Average                                                                  | Tbiv                 |              | °C         | heating / Average                                                                      | Tol                | -10 ℃                                 |
| heating / Warmer<br>heating / Colder                                               | Tbiv<br>Tbiv         | 2            | ာ<br>က     | heating / Warmer<br>heating / Colder                                                   | Tol<br>Tol         | 2 ℃<br>- ℃                            |
|                                                                                    | TUIV                 | -            | U          | neating / Colder                                                                       | 101                | -  0                                  |
| 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 modes of                                             | hor than 'activ      | vo modo'     |            | Annual electricity consumption                                                         |                    |                                       |
| off mode                                                                           | Poff                 | 4 Ve mode    | W          | cooling                                                                                | Qce                | 146 kWh/a                             |
| standby mode                                                                       | Psb                  | 4            | W          | heating / Average                                                                      | Qhe                | 895 kWh/a                             |
| thermostat-off mode                                                                | Pto(cooling)         | 10           | W          | heating / Warmer                                                                       | Qhe                | 863 kWh/a                             |
| arankaana haatar mada                                                              | Pto(heatling)        | 11<br>0      | W          | heating / colder                                                                       | Qhe                | - kWh/a                               |
| crankcase heater mode                                                              | Pck                  | U            | vv         | 1                                                                                      |                    |                                       |
| Capacity control(indicate one of three of                                          | ptions)              |              |            | Other items                                                                            |                    |                                       |
|                                                                                    |                      |              |            | Sound power level(indoor)                                                              | Lwa                | 54 dB(A)                              |
| fixed                                                                              | No                   |              |            | Sound power level(outdoor)<br>Global warming potential                                 | Lwa<br>GWP         | 61 dB(A)<br>675 kaCO2ea.              |
| staged                                                                             | NO                   |              |            | Rated air flow(indoor)                                                                 | GWP<br>-           | 675 kgCO2eq.<br>678 m <sup>3</sup> /h |
| variable                                                                           | Yes                  |              |            | Rated air flow(outdoor)                                                                | -                  | 1890 m <sup>3</sup> /h                |
|                                                                                    |                      |              |            |                                                                                        |                    |                                       |
|                                                                                    |                      |              |            | of its authorised representative.<br>ng Europe, Ltd.                                   |                    |                                       |
|                                                                                    |                      |              |            | iddlesex, UB11 1ET,United Kingdom                                                      |                    |                                       |
|                                                                                    | SERVICES B           |              |            | -                                                                                      |                    |                                       |
| Herikert                                                                           | ergweg 238,          | Luna Arer    | ia, 1101 C | M Amsterdam, Netherlands                                                               |                    |                                       |

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### (2) Floor standing type (SRF)

### Model SRF25ZS-W

| Information to identify the mode      | el(s) to which the information relates to:                                        | If function includes heating: Indicate    | the heating season the                   |
|---------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------|
| Indoor unit model name                | SRF25ZS-W                                                                         | information relates to. Indicated value   |                                          |
| Outdoor unit model name               | SRC25ZS-WA2                                                                       | heating season at a time. Include at      |                                          |
|                                       |                                                                                   |                                           | loadt ale fieldailig boaboil 7 fieldge i |
| Function(indicate if present)         |                                                                                   | Average(mandatory)                        | Yes                                      |
| cooling                               | Yes                                                                               | Warmer(if designated)                     | Yes                                      |
| heating                               | Yes                                                                               | Colder(if designated)                     | No                                       |
| licating                              | 163                                                                               |                                           | 110                                      |
| Item                                  | symbol value unit                                                                 | Item                                      | symbol value class                       |
| Design load                           |                                                                                   | Seasonal efficiency and energy efficiency |                                          |
| cooling                               | Pdesignc 2.50 kW                                                                  | cooling                                   | SEER 7.40 A++                            |
| heating / Average                     | Pdesignh <b>2.40</b> kW                                                           | heating / Average                         | SCOP/A 4.00 A+                           |
| heating / Warmer                      | Pdesignh 3.00 kW                                                                  | heating / Warmer                          | SCOP/W 5.70 A+++                         |
| heating / Colder                      | Pdesignh - kW                                                                     | heating / Colder                          | SCOP/C                                   |
| Treating / Colder                     | Puesigiiii - Kvv                                                                  | heating / Colder                          | unit                                     |
| Declared capacity at outdoor te       | mporaturo Tdosignh                                                                | Back up heating capacity at outdoor       |                                          |
| heating / Average (-10°C)             | Pdh <b>2.40</b> kW                                                                | heating / Average (-10°C)                 | elbu - kW                                |
|                                       | Pdh <b>3.00</b> kW                                                                |                                           |                                          |
| heating / Warmer (2°C)                |                                                                                   | heating / Warmer (2°C)                    |                                          |
| heating / Colder (-22°C)              | Pdh - kW                                                                          | heating / Colder (-22°C)                  | elbu - kW                                |
| Declared consolity for eaching        | tindeer temperature 27(10)°C and                                                  | Declared energy officiency ratio at i     | indoor to manage turns 27(10)°C and      |
|                                       | t indoor temperature 27(19)°C and                                                 | Declared energy efficiency ratio, at i    | indoor temperature 27(19) C and          |
| outdoor temperature Tj                |                                                                                   | outdoor temperature Tj                    |                                          |
| Tj=35°C                               | Pdc 2.50 kW                                                                       | Tj=35°C                                   | EERd <b>4.24</b> -                       |
| Tj=30°C                               | Pdc <b>1.80</b> kW                                                                | Tj=30°C                                   | EERd <b>6.32</b> -                       |
| Tj=25°C                               | Pdc 1.20 kW                                                                       | Tj=25°C                                   | EERd 10.20 -                             |
| Tj=20°C                               | Pdc 1.10 kW                                                                       | Tj=20°C                                   | EERd 15.20 -                             |
| Declared a 11 f 1 f                   | A                                                                                 | Destand as <i>(</i> , ) ( )               |                                          |
| Declared capacity for heating /       |                                                                                   | Declared coefficient of performance       |                                          |
| temperature 20°C and outdoor t        |                                                                                   | temperature 20°C and outdoor temp         |                                          |
| Tj=-7℃                                | Pdh <b>2.10</b> kW                                                                | Tj=-7°C                                   | COPd <b>2.60</b> -                       |
| Tj=2°C                                | Pdh <b>1.30</b> kW                                                                | Tj=2°C                                    | COPd <b>3.70</b> -                       |
| Tj=7°C                                | Pdh <b>0.90</b> kW                                                                | Tj=7°C                                    | COPd <b>5.65</b> -                       |
| Tj=12°C                               | Pdh <b>1.10</b> kW                                                                | Tj=12°C                                   | COPd 7.48 -                              |
| Tj=bivalent temperature               | Pdh <b>2.40</b> kW                                                                | Tj=bivalent temperature                   | COPd 2.60 -                              |
| Tj=operating limit                    | Pdh <b>2.40</b> kW                                                                | Tj=operating limit                        | COPd 2.60 -                              |
| , , , , , , , , , , , , , , , , , , , |                                                                                   |                                           | • •                                      |
| Declared capacity for heating /       | Warmer season, at indoor                                                          | Declared coefficient of performance       | / Warmer season, at indoor               |
| temperature 20°C and outdoor t        | temperature Tj                                                                    | temperature 20°C and outdoor temp         | perature Tj                              |
| Tj=2°C                                | Pdh <b>3.00</b> kW                                                                | Tj=2°C                                    | COPd 2.99 -                              |
| Tj=7°C                                | Pdh <b>1.90</b> kW                                                                | Tj=7°C                                    | COPd 5.18 -                              |
| Tj=12℃                                | Pdh <b>1.10</b> kW                                                                | Ti=12℃                                    | COPd 7.48 -                              |
| Tj=bivalent temperature               | Pdh <b>3.00</b> kW                                                                | Tj=bivalent temperature                   | COPd <b>2.99</b> -                       |
| Tj=operating limit                    | Pdh <b>3.00</b> kW                                                                | Tj=operating limit                        | COPd <b>2.99</b> -                       |
| <u> </u>                              |                                                                                   |                                           |                                          |
| Declared capacity for heating /       | Colder season, at indoor                                                          | Declared coefficient of performance       | / Colder season, at indoor               |
| temperature 20°C and outdoor t        |                                                                                   | temperature 20°C and outdoor temp         |                                          |
| Tj=-7°C                               | Pdh - kW                                                                          | Tj=-7°C                                   | COPd                                     |
| Tj=2℃                                 | Pdh - kW                                                                          | Tj=2℃                                     | COPd                                     |
| Tj=7℃                                 | Pdh - kW                                                                          | Tj=7℃                                     | COPd                                     |
| Ti=12℃                                | Pdh - kW                                                                          | Tj=12℃                                    | COPd                                     |
| 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                                     |
| IJ=-15 C                              | Pull - KVV                                                                        | IJ15 C                                    | COPu -                                   |
| Bivalent temperature                  |                                                                                   | Operating limit temperature               |                                          |
| heating / Average                     | Tbiv -10 °C                                                                       | heating / Average                         | Tol <b>-10</b> °C                        |
| heating / Warmer                      | Tbiv 2 °C                                                                         | heating / Warmer                          | Tol 2 °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                                   |
| lor neuting                           |                                                                                   | ion nouting                               | 001030                                   |
| Degradation coefficient               |                                                                                   | Degradation coefficient                   |                                          |
| cooling                               | Cdc 0.25 -                                                                        | heating                                   | Cdh 0.25 -                               |
|                                       |                                                                                   |                                           |                                          |
| Electric power input in power m       | odes other than 'active mode'                                                     | Annual electricity consumption            |                                          |
| off mode                              | Poff <b>7</b> W                                                                   | cooling                                   | Qce 119 kWh/a                            |
| standby mode                          | Psb 7 W                                                                           | heating / Average                         | Qhe <b>840</b> kWh/a                     |
| thermostat-off mode                   | Pto(cooling) 12 W                                                                 | heating / Warmer                          | Qhe <b>737</b> kWh/a                     |
|                                       | Pto(heating) 15 W                                                                 | heating / colder                          | Qhe - kWh/a                              |
| crankcase heater mode                 | Pck 0 W                                                                           | Lieung / toldol                           | - KWI//a                                 |
|                                       |                                                                                   | 1                                         |                                          |
| Capacity control(indicate one of      | f three options)                                                                  | Other items                               |                                          |
| suparity control(indicate one of      |                                                                                   | Sound power level(indoor)                 | Lwa <b>50</b> dB(A)                      |
|                                       |                                                                                   | Sound power level(indoor)                 | Lwa <b>59</b> dB(A)                      |
| fixed                                 | No                                                                                | Global warming potential                  | GWP 675 kgCO2eq.                         |
| staged                                | No                                                                                | Rated air flow(indoor)                    | - <b>540</b> m <sup>3</sup> /h           |
| variable                              | Yes                                                                               | Rated air flow(indoor)                    | - <b>540</b> m³/h                        |
|                                       |                                                                                   | · · · · ·                                 | - 1044 111-/11                           |
|                                       | Name and address of the manufacturer<br>Mitsubishi Heavy Industries Air-Condition |                                           |                                          |
|                                       | 5 The Square, Stockley Park, Uxbridge,                                            |                                           |                                          |
|                                       | WHIAE SERVICES B.V.                                                               | Middlesex, OBTITET, Officer Killguoli     | '                                        |
|                                       |                                                                                   | CM Amsterdam Nothorlands                  |                                          |
| I                                     | Herikerbergweg 238, Luna ArenA, 1101                                              | Ow Amaterially, Neurenallus               |                                          |

RWA000Z283 🛕

### Model SRF35ZS-W

| Information to identify the model(s Indoor unit model name | ) to which the information relates t<br>SRF35ZS-W | : If function includes heating: Indicate information relates to. Indicated val                         |                                            |
|------------------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------|
| Outdoor unit model name                                    | SRC35ZS-WA2                                       | heating season at a time. Include at                                                                   |                                            |
| Function(indicate if present)                              |                                                   | Average(mandatory)                                                                                     | Yes                                        |
| cooling                                                    | Yes                                               | Warmer(if designated)                                                                                  | Yes                                        |
| heating                                                    | Yes                                               | Colder(if designated)                                                                                  | No                                         |
| Item<br>Design load                                        | symbol value unit                                 | Item<br>Seasonal efficiency and energy effi                                                            | symbol value class                         |
| cooling                                                    | Pdesignc 3.50 kW                                  | cooling                                                                                                | SEER 8.10 A++                              |
| heating / Average                                          | Pdesignh 2.90 kW                                  | heating / Average                                                                                      | SCOP/A 4.70 A++                            |
| heating / Warmer                                           | Pdesignh 3.80 kW                                  | heating / Warmer                                                                                       | SCOP/W 5.90 A+++                           |
| heating / Colder                                           | Pdesignh - kW                                     | heating / Colder                                                                                       | SCOP/C<br>unit                             |
| Declared capacity at outdoor temp                          | perature Tdesignh                                 | Back up heating capacity at outdoo                                                                     |                                            |
| heating / Average (-10°C)                                  | Pdh <b>2.90</b> kW                                | heating / Average (-10°C)                                                                              | elbu - kW                                  |
| heating / Warmer (2°C)                                     | Pdh <b>3.80</b> kW                                | heating / Warmer (2°C)                                                                                 | elbu - kW                                  |
| heating / Colder (-22°C)                                   | Pdh - kW                                          | heating / Colder (-22°C)                                                                               | elbu - kW                                  |
| Declared capacity for cooling, at in                       | ndoor temperature 27(19)°C and                    | Declared energy efficiency ratio, at                                                                   | indoor temperature 27(19)°C and            |
| outdoor temperature Tj<br>Tj=35℃                           | Pdc 3.50 kW                                       | outdoor temperature Tj<br>Tj=35°C                                                                      | EERd <b>4.27</b> -                         |
| Tj=30°C                                                    | Pdc <b>2.60</b> kW                                | Tj=30°C                                                                                                | EERd <b>6.47</b> -                         |
| Tj=25℃                                                     | Pdc 1.60 kW                                       | Tj=25℃                                                                                                 | EERd 10.10 -                               |
| Tj=20°C                                                    | Pdc 1.20 kW                                       | Tj=20°C                                                                                                | EERd 18.90 -                               |
| Declared capacity for heating / Ave                        |                                                   | Declared coefficient of performance                                                                    |                                            |
| temperature 20°C and outdoor tem                           |                                                   | temperature 20°C and outdoor temp                                                                      |                                            |
| Tj=-7℃<br>Tj=2℃                                            | Pdh <b>2.50</b> kW<br>Pdh <b>1.60</b> kW          | Tj=-7℃<br>Tj=2℃                                                                                        | COPd <b>2.86</b> -<br>COPd <b>4.90</b> -   |
| Tj=7℃                                                      | Pdh <b>1.00</b> kW                                | Tj=7°C                                                                                                 | COPd <b>5.70</b>                           |
| Tj=12°C                                                    | Pdh <b>1.00</b> kW                                | Tj=12°C                                                                                                | COPd <b>7.30</b> -                         |
| Tj=bivalent temperature                                    | Pdh <b>2.90</b> kW                                | Tj=bivalent temperature                                                                                | COPd <b>2.60</b> -                         |
| Tj=operating limit                                         | Pdh <b>2.90</b> kW                                | Tj=operating limit                                                                                     | COPd 2.60 -                                |
| Declared capacity for heating / Wa                         |                                                   | Declared coefficient of performance                                                                    |                                            |
| temperature 20°C and outdoor ten<br>Tj=2°C                 | nperature Tj<br>Pdh <b>3.80</b> kW                | temperature 20°C and outdoor temp<br>Tj=2°C                                                            | perature Tj<br>COPd <b>2.99</b> -          |
| Tj=7°C                                                     | Pdh <b>2.40</b> kW                                | Tj=7°C                                                                                                 | COPd <b>5.36</b> -                         |
| Tj=12°C                                                    | Pdh <b>1.00</b> kW                                | Tj=12°C                                                                                                | COPd <b>7.30</b> -                         |
| Tj=bivalent temperature                                    | Pdh <b>3.80</b> kW                                | Tj=bivalent temperature                                                                                | COPd <b>2.99</b> -                         |
| Tj=operating limit                                         | Pdh <b>3.80</b> kW                                | Tj=operating limit                                                                                     | COPd <b>2.99</b> -                         |
| Declared capacity for heating / Co                         | lder season, at indoor                            | Declared coefficient of performance                                                                    | e / Colder season, at indoor               |
| temperature 20°C and outdoor tem                           |                                                   | temperature 20°C and outdoor temp                                                                      |                                            |
| Tj=-7℃                                                     | Pdh - kW                                          | Tj=-7°C                                                                                                | COPd                                       |
| Tj=2℃<br>Tj=7℃                                             | Pdh - kW<br>Pdh - kW                              | Tj=2℃<br>Ti=7℃                                                                                         | COPd<br>COPd                               |
| Ti=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                                       |
| Tj=-15°C                                                   | Pdh - kW                                          | Tj=-15℃                                                                                                | COPd                                       |
| Bivalent temperature                                       |                                                   | Operating limit temperature                                                                            |                                            |
| heating / Average<br>heating / Warmer                      | Tbiv <u>-10</u> ℃<br>Tbiv <u>2</u> ℃              | heating / Average<br>heating / Warmer                                                                  | Tol <u>-10</u> °C<br>Tol <u>2</u> °C       |
| heating / Warmer                                           | Tbiv 2 C                                          | heating / Colder                                                                                       | Tol $2$ C                                  |
| 5                                                          | 1010                                              |                                                                                                        |                                            |
| Cycling interval capacity<br>for cooling                   | Pcycc - kW                                        | Cycling interval efficiency<br>for cooling                                                             | EEPovo                                     |
| for heating                                                | Pcycc - kW<br>Pcych - kW                          | for heating                                                                                            | EERcyc<br>COPcyc                           |
|                                                            |                                                   |                                                                                                        |                                            |
| Degradation coefficient<br>cooling                         | Cdc 0.25 -                                        | Degradation coefficient<br>heating                                                                     | Cdh 0.25 -                                 |
| Electric power input in power mod                          |                                                   | Annual electricity consumption                                                                         |                                            |
| off mode                                                   | Poff <b>7</b> W                                   | cooling                                                                                                | Qce 152 kWh/a                              |
| standby mode                                               | Psb 7 W                                           | heating / Average                                                                                      | Qhe <b>864</b> kWh/a                       |
| thermostat-off mode                                        | Pto(cooling) 12 W                                 | heating / Warmer                                                                                       | Qhe <b>902</b> kWh/a                       |
| crankcase heater mode                                      | Pto(heating) <b>15</b> W<br>Pck <b>0</b> W        | heating / colder                                                                                       | Qhe - kWh/a                                |
|                                                            |                                                   |                                                                                                        |                                            |
| Capacity control(indicate one of th                        | ree options)                                      | Other items<br>Sound power level(indoor)                                                               | Lwa <b>51</b> dB(A)                        |
|                                                            |                                                   | Sound power level(indoor)<br>Sound power level(outdoor)                                                | Lwa <b>51</b> dB(A)<br>Lwa <b>63</b> dB(A) |
| fixed                                                      | No                                                | Global warming potential                                                                               | GWP 675 kgCO2eq.                           |
| staged                                                     | No                                                | Rated air flow(indoor)                                                                                 | - <b>552</b> m <sup>3</sup> /h             |
| variable                                                   | Yes                                               | Rated air flow(outdoor)                                                                                | - <b>1890</b> m <sup>3</sup> /h            |
| more information Mits<br>5 T                               | subishi Heavy Industries Air-Condi                | r or of its authorised representative.<br>ioning Europe, Ltd.<br>e, Middlesex, UB11 1ET,United Kingdor | n                                          |
|                                                            | rikerbergweg 238, Luna ArenA, 11                  | 01 CM Amsterdam, Netherlands                                                                           |                                            |

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## (3) Ceiling concealed type (SRR)

### Model SRR25ZS-W

| Information to identify the model(s) to w         |                                          | If function includes heating: Indicate the                                               |                                          |
|---------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------|
| Indoor unit model name<br>Outdoor unit model name | SRR25ZS-W<br>SRC25ZS-W2                  | information relates to. Indicated values s<br>heating season at a time. Include at least |                                          |
|                                                   | SRC2523-W2                               | fieating season at a time. Include at leas                                               | t the heating season Average.            |
| Function(indicate if present)                     |                                          | Average(mandatory)                                                                       | Yes                                      |
| cooling                                           | Yes                                      | Warmer(if designated)                                                                    | Yes                                      |
| heating                                           | Yes                                      | Colder(if designated)                                                                    | No                                       |
| Item                                              | symbol value unit                        | Item                                                                                     | symbol value class                       |
| Design load                                       | Symbol Value ant                         | Seasonal efficiency and energy efficience                                                |                                          |
| cooling                                           | Pdesignc 2.50 kW                         | cooling                                                                                  | SEER 6.60 A++                            |
| heating / Average                                 | Pdesignh 2.50 kW                         | heating / Average                                                                        | SCOP/A 4.10 A+                           |
| heating / Warmer<br>heating / Colder              | Pdesignh <b>3.20</b> kW<br>Pdesignh - kW | heating / Warmer<br>heating / Colder                                                     | SCOP/W 5.20 A+++<br>SCOP/C               |
| heating / Colder                                  | Fuesignin - KW                           | Treating / Colder                                                                        | unit                                     |
| Declared capacity at outdoor temperature          | re Tdesignh                              | Back up heating capacity at outdoor terr                                                 |                                          |
| heating / Average (-10°C)                         | Pdh <b>2.50</b> kW                       | heating / Average (-10°C)                                                                | elbu - kW                                |
| heating / Warmer (2°C)                            | Pdh 3.20 kW                              | heating / Warmer (2°C)                                                                   | elbu - kW<br>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 indo                                                | or temperature 27(19)°C and              |
| outdoor temperature Tj                            |                                          | outdoor temperature Tj                                                                   |                                          |
| Tj=35℃                                            | Pdc 2.50 kW                              | Tj=35°C                                                                                  | EERd <b>4.03</b> -                       |
| Tj=30℃<br>Tj=25℃                                  | Pdc <b>1.90</b> kW<br>Pdc <b>1.20</b> kW | Tj=30°C<br>Tj=25℃                                                                        | EERd <b>5.90</b> -<br>EERd <b>8.60</b> - |
| Tj=20°C                                           | Pdc 1.10 kW                              | Tj=20℃                                                                                   | EERd 10.90 -                             |
|                                                   |                                          |                                                                                          |                                          |
| Declared capacity for heating / Average           | season, at indoor                        | Declared coefficient of performance / Av                                                 |                                          |
| temperature 20°C and outdoor temperat<br>Tj=-7°C  | ure Tj<br>Pdh <b>2.20</b> kW             | temperature 20°C and outdoor temperat                                                    | ure Tj<br>COPd <b>2.60</b> -             |
| Tj=2°C                                            | Pdh <b>1.30</b> kW                       | Tj=2°C                                                                                   | COPd <b>4.13</b> -                       |
| Tj=7°C                                            | Pdh <b>1.00</b> kW                       | Tj=7°C                                                                                   | COPd <b>5.35</b> -                       |
| Tj=12°C                                           | Pdh <b>1.20</b> kW                       | Tj=12°C                                                                                  | COPd <b>6.60</b> -                       |
| Tj=bivalent temperature                           | Pdh 2.50 kW                              | Tj=bivalent temperature                                                                  | COPd 2.60 -                              |
| Tj=operating limit                                | Pdh 2.50 kW                              | Tj=operating limit                                                                       | COPd 2.60 -                              |
| Declared capacity for heating / Warmer            | season, at indoor                        | Declared coefficient of performance / W                                                  | armer season, at indoor                  |
| temperature 20°C and outdoor temperat             | ure Tj                                   | temperature 20°C and outdoor temperat                                                    | ure Tj                                   |
| Tj=2°C                                            | Pdh 3.20 kW                              | Tj=2°C                                                                                   | COPd 2.95 -                              |
| Tj=7°C<br>Tj=12°C                                 | Pdh <b>2.10</b> kW<br>Pdh <b>1.20</b> kW | Tj=7°C<br>Tj=12℃                                                                         | COPd <b>4.87</b> -<br>COPd <b>6.60</b> - |
| Tj=bivalent temperature                           | Pdh <b>3.20</b> kW                       | Tj=12 C                                                                                  | COPd <b>2.95</b> -                       |
| Tj=operating limit                                | Pdh <b>3.20</b> kW                       | Tj=operating limit                                                                       | COPd <b>2.95</b> -                       |
|                                                   |                                          |                                                                                          | · ·                                      |
| Declared capacity for heating / Colder se         |                                          | Declared coefficient of performance / Co                                                 |                                          |
| temperature 20°C and outdoor temperat<br>Tj=-7°C  | Pdh - kW                                 | temperature 20°C and outdoor temperat                                                    | 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<br>Tj=operating limit     | Pdh - kW<br>Pdh - kW                     | Tj=bivalent temperature<br>Tj=operating limit                                            | COPd<br>COPd                             |
| Tj=-15°C                                          | Pdh - kW                                 | Tj=-0perating innit<br>Tj=-15℃                                                           | COPd                                     |
|                                                   |                                          |                                                                                          | 00.0                                     |
| Bivalent temperature                              |                                          | Operating limit temperature                                                              |                                          |
| heating / Average                                 | Tbiv <u>-10</u> °C<br>Tbiv <u>2</u> °C   | heating / Average                                                                        | Tol <u>-10</u> °C<br>Tol <u>2</u> °C     |
| heating / Warmer<br>heating / Colder              | Tbiv - °C                                | heating / Warmer<br>heating / Colder                                                     | Tol <u>2</u> C                           |
|                                                   |                                          |                                                                                          |                                          |
| Cycling interval capacity                         | Davida I                                 | Cycling interval efficiency                                                              |                                          |
| for cooling<br>for heating                        | Pcycc - kW<br>Pcych - kW                 | for cooling<br>for heating                                                               | EERcyc<br>COPcyc                         |
|                                                   |                                          | lor heating                                                                              |                                          |
| Degradation coefficient                           |                                          | Degradation coefficient                                                                  |                                          |
| cooling                                           | Cdc 0.25 -                               | heating                                                                                  | Cdh 0.25 -                               |
| Electric power input in power modes oth           | er than 'active mode'                    | Annual electricity consumption                                                           |                                          |
| off mode                                          | Poff 5 W                                 | cooling                                                                                  | Qce 133 kWh/a                            |
| standby mode                                      | Psb 5 W                                  | heating / Average                                                                        | Qhe 853 kWh/a                            |
| thermostat-off mode                               | Pto(cooling) 17 W<br>Pto(heating) 20 W   | heating / Warmer<br>heating / colder                                                     | Qhe <b>862</b> kWh/a<br>Qhe - kWh/a      |
| crankcase heater mode                             | Pto(heating) 20 W<br>Pck 0 W             | Treating / colder                                                                        |                                          |
|                                                   | ····                                     |                                                                                          |                                          |
| Capacity control(indicate one of three or         | otions)                                  | Other items                                                                              |                                          |
|                                                   |                                          | Sound power level(indoor)                                                                | Lwa 56 dB(A)                             |
| fixed                                             | No                                       | Sound power level(outdoor)<br>Global warming potential                                   | Lwa 58 dB(A)<br>GWP 675 kgCO2eq.         |
| staged                                            | No                                       | Rated air flow(indoor)                                                                   | - 570 m <sup>3</sup> /h                  |
| variable                                          | Yes                                      | Rated air flow(outdoor)                                                                  | - <b>1644</b> m <sup>3</sup> /h          |
|                                                   |                                          | or of its authorised representative.                                                     | i                                        |
|                                                   | ii Heavy Industries Air-Condition        | ing Europe, Ltd.<br>Niddlesex, UB11 1ET,United Kingdom                                   |                                          |
|                                                   | ERVICES B.V.                             | widdiesex, ODTITET, OHited Kingdoffi                                                     |                                          |
|                                                   | ergweg 238, Luna ArenA, 1101 (           | CM Amsterdam, Netherlands                                                                |                                          |

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### Model SRR35ZS-W

|                                                                                                                                                                                                                                                                                                                                                                                                                                  | o which the info                                                                                                                                                                                                                     | ormation r                                                                                         | elates to:                                                                                                                              | If function includes heating: Indicate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | the heating s                                                                                                               | eason the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Indoor unit model name                                                                                                                                                                                                                                                                                                                                                                                                           | SRR35ZS                                                                                                                                                                                                                              | -W                                                                                                 |                                                                                                                                         | information relates to. Indicated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | es should rela                                                                                                              | ate to one                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Outdoor unit model name                                                                                                                                                                                                                                                                                                                                                                                                          | SRC35ZS                                                                                                                                                                                                                              | -W2                                                                                                |                                                                                                                                         | heating season at a time. Include at le                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | east the heati                                                                                                              | ng season 'Average'.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Function(indicate if present)                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                      |                                                                                                    |                                                                                                                                         | Average(mandatory)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Yes                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| cooling                                                                                                                                                                                                                                                                                                                                                                                                                          | Yes                                                                                                                                                                                                                                  |                                                                                                    |                                                                                                                                         | Warmer(if designated)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Yes                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| heating                                                                                                                                                                                                                                                                                                                                                                                                                          | Yes                                                                                                                                                                                                                                  |                                                                                                    |                                                                                                                                         | Colder(if designated)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | No                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                      |                                                                                                    |                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Item                                                                                                                                                                                                                                                                                                                                                                                                                             | symbol                                                                                                                                                                                                                               | value                                                                                              | unit                                                                                                                                    | Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | symbol                                                                                                                      | value class                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Design load<br>cooling                                                                                                                                                                                                                                                                                                                                                                                                           | Pdesignc                                                                                                                                                                                                                             | 3.50                                                                                               | kW                                                                                                                                      | Seasonal efficiency and energy effici<br>cooling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ency class<br>SEER                                                                                                          | 6.80 A++                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| heating / Average                                                                                                                                                                                                                                                                                                                                                                                                                | Pdesignh                                                                                                                                                                                                                             | 3.10                                                                                               | kW                                                                                                                                      | heating / Average                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SCOP/A                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| heating / Warmer                                                                                                                                                                                                                                                                                                                                                                                                                 | Pdesignh                                                                                                                                                                                                                             | 4.10                                                                                               | kW                                                                                                                                      | heating / Warmer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | SCOP/W                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| heating / Colder                                                                                                                                                                                                                                                                                                                                                                                                                 | Pdesignh                                                                                                                                                                                                                             | -                                                                                                  | kW                                                                                                                                      | heating / Colder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | SCOP/C                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Dealarad conceits at a state or town or                                                                                                                                                                                                                                                                                                                                                                                          | atura Telasiank                                                                                                                                                                                                                      |                                                                                                    |                                                                                                                                         | Deale up beating conseits at autology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | toma orativeo '                                                                                                             | unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Declared capacity at outdoor temper<br>heating / Average (-10°C)                                                                                                                                                                                                                                                                                                                                                                 | Pdh                                                                                                                                                                                                                                  | 3.10                                                                                               | kW                                                                                                                                      | Back up heating capacity at outdoor heating / Average (-10°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | elbu                                                                                                                        | - kW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| heating / Warmer (2°C)                                                                                                                                                                                                                                                                                                                                                                                                           | Pdh                                                                                                                                                                                                                                  | 4.10                                                                                               | kW                                                                                                                                      | heating / Warmer (2°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | elbu                                                                                                                        | - kW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| heating / Colder (-22°C)                                                                                                                                                                                                                                                                                                                                                                                                         | Pdh                                                                                                                                                                                                                                  | -                                                                                                  | kW                                                                                                                                      | heating / Colder (-22°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | elbu                                                                                                                        | - kW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                      | 0                                                                                                  |                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Declared capacity for cooling, at indo<br>outdoor temperature Tj                                                                                                                                                                                                                                                                                                                                                                 | or temperature                                                                                                                                                                                                                       | e 27(19)°C                                                                                         | and                                                                                                                                     | Declared energy efficiency ratio, at ir<br>outdoor temperature Tj                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | idoor tempera                                                                                                               | ature 27(19)°C and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Tj=35℃                                                                                                                                                                                                                                                                                                                                                                                                                           | Pdc                                                                                                                                                                                                                                  | 3.50                                                                                               | kW                                                                                                                                      | Ti=35°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | EERd                                                                                                                        | 3.76 -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Tj=30°C                                                                                                                                                                                                                                                                                                                                                                                                                          | Pdc                                                                                                                                                                                                                                  | 2.60                                                                                               | kW                                                                                                                                      | Tj=30°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | EERd                                                                                                                        | 5.51 -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Tj=25°C                                                                                                                                                                                                                                                                                                                                                                                                                          | Pdc                                                                                                                                                                                                                                  | 1.70                                                                                               | kW                                                                                                                                      | Tj=25°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | EERd                                                                                                                        | 8.60 -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Tj=20°C                                                                                                                                                                                                                                                                                                                                                                                                                          | Pdc                                                                                                                                                                                                                                  | 1.10                                                                                               | kW                                                                                                                                      | Tj=20°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | EERd                                                                                                                        | 11.80 -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Declared capacity for heating / Avera                                                                                                                                                                                                                                                                                                                                                                                            | ane season of                                                                                                                                                                                                                        | indoor                                                                                             |                                                                                                                                         | Declared coefficient of performance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Average cor                                                                                                                 | ason at indoor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| temperature 20°C and outdoor tempe                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                      |                                                                                                    |                                                                                                                                         | temperature 20°C and outdoor tempe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                             | 1301, at 110001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tj=-7°C                                                                                                                                                                                                                                                                                                                                                                                                                          | Pdh                                                                                                                                                                                                                                  | 2.80                                                                                               | kW                                                                                                                                      | Tj=-7℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | COPd                                                                                                                        | 2.88 -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Tj=2°C                                                                                                                                                                                                                                                                                                                                                                                                                           | Pdh                                                                                                                                                                                                                                  | 1.60                                                                                               | kW                                                                                                                                      | Tj=2°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | COPd                                                                                                                        | 4.60 -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Tj=7°C                                                                                                                                                                                                                                                                                                                                                                                                                           | Pdh                                                                                                                                                                                                                                  | 1.10                                                                                               | kW                                                                                                                                      | Tj=7°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | COPd                                                                                                                        | 5.50 -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Tj=12°C<br>Tj=bivalent temperature                                                                                                                                                                                                                                                                                                                                                                                               | Pdh<br>Pdh                                                                                                                                                                                                                           | 1.20<br>3.10                                                                                       | kW<br>kW                                                                                                                                | Tj=12°C<br>Tj=bivalent temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | COPd<br>COPd                                                                                                                | 6.85 -<br>2.69 -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Tj=operating limit                                                                                                                                                                                                                                                                                                                                                                                                               | Pdh                                                                                                                                                                                                                                  | 3.10                                                                                               | kW                                                                                                                                      | Ti=operating limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | COPd                                                                                                                        | 2.69 -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1 dil                                                                                                                                                                                                                                | 0.10                                                                                               |                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0010                                                                                                                        | 2.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Declared capacity for heating / Warn                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                      | indoor                                                                                             |                                                                                                                                         | Declared coefficient of performance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                             | ason, at indoor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| temperature 20°C and outdoor temperature                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                      | 4.40                                                                                               | 1.347                                                                                                                                   | temperature 20°C and outdoor temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                             | 0.05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Tj=2℃<br>Tj=7℃                                                                                                                                                                                                                                                                                                                                                                                                                   | Pdh<br>Pdh                                                                                                                                                                                                                           | 4.10<br>2.60                                                                                       | kW<br>kW                                                                                                                                | Tj=2℃<br>Tj=7℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | COPd<br>COPd                                                                                                                | 3.05 -<br>4.90 -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Tj=12°C                                                                                                                                                                                                                                                                                                                                                                                                                          | Pdh                                                                                                                                                                                                                                  | 1.20                                                                                               | kW                                                                                                                                      | Ti=12°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | COPd                                                                                                                        | 6.85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Tj=bivalent temperature                                                                                                                                                                                                                                                                                                                                                                                                          | Pdh                                                                                                                                                                                                                                  | 4.10                                                                                               | kW                                                                                                                                      | Tj=bivalent temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | COPd                                                                                                                        | 3.05 -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Tj=operating limit                                                                                                                                                                                                                                                                                                                                                                                                               | Pdh                                                                                                                                                                                                                                  | 4.10                                                                                               | kW                                                                                                                                      | Tj=operating limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | COPd                                                                                                                        | 3.05 -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                      |                                                                                                    |                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Declared capacity for heating / Colde<br>temperature 20°C and outdoor temperature                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                      | door                                                                                               |                                                                                                                                         | Declared coefficient of performance a<br>temperature 20°C and outdoor temperature 20°C and outdoor temperature 20°C and outdoor temperature and the second sec |                                                                                                                             | on, at indoor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Tj=-7°C                                                                                                                                                                                                                                                                                                                                                                                                                          | Pdh                                                                                                                                                                                                                                  | -                                                                                                  | kW                                                                                                                                      | Tj=-7°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | COPd                                                                                                                        | <b>-</b> -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Tj=2°C                                                                                                                                                                                                                                                                                                                                                                                                                           | Pdh                                                                                                                                                                                                                                  | -                                                                                                  | kW                                                                                                                                      | Tj=2℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | COPd                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tj=7°C                                                                                                                                                                                                                                                                                                                                                                                                                           | Pdh                                                                                                                                                                                                                                  | -                                                                                                  | kW                                                                                                                                      | Tj=7°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | COPd                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tj=12°C                                                                                                                                                                                                                                                                                                                                                                                                                          | Pdh                                                                                                                                                                                                                                  | -                                                                                                  | kW                                                                                                                                      | Tj=12°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | COPd<br>COPd                                                                                                                | • •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Tj=bivalent temperature                                                                                                                                                                                                                                                                                                                                                                                                          | Pdh                                                                                                                                                                                                                                  | -                                                                                                  | kW<br>kW                                                                                                                                | Tj=bivalent temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Ti=operating limit                                                                                                                                                                                                                                                                                                                                                                                                               | Pdh                                                                                                                                                                                                                                  | _                                                                                                  |                                                                                                                                         | Ti=operating limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                             | • -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Tj=operating limit<br>Ti=-15°C                                                                                                                                                                                                                                                                                                                                                                                                   | Pdh<br>Pdh                                                                                                                                                                                                                           | -                                                                                                  |                                                                                                                                         | Tj=operating limit<br>Ti=-15°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | COPd                                                                                                                        | <br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Tj=operating limit<br>Tj=-15℃                                                                                                                                                                                                                                                                                                                                                                                                    | Pdh<br>Pdh                                                                                                                                                                                                                           |                                                                                                    | kW                                                                                                                                      | Tj=operating limit<br>Tj=-15°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tj=-15°C<br>Bivalent temperature                                                                                                                                                                                                                                                                                                                                                                                                 | Pdh                                                                                                                                                                                                                                  | -                                                                                                  | kW                                                                                                                                      | Tj=-15°C<br>Operating limit temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | COPd<br>COPd                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tj=-15°C<br>Bivalent temperature<br>heating / Average                                                                                                                                                                                                                                                                                                                                                                            | Pdh<br>Tbiv                                                                                                                                                                                                                          | -<br>-10                                                                                           | kW<br>]°C                                                                                                                               | Tj=-15°C<br>Operating limit temperature<br>heating / Average                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | COPd<br>COPd<br>Tol                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tj=-15°C<br>Bivalent temperature<br>heating / Average<br>heating / Warmer                                                                                                                                                                                                                                                                                                                                                        | Pdh<br>Tbiv<br>Tbiv                                                                                                                                                                                                                  | -<br>-10<br>2                                                                                      | kW<br>℃<br>℃                                                                                                                            | Tj=-15°C<br>Operating limit temperature<br>heating / Average<br>heating / Warmer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | COPd<br>COPd<br>Tol<br>Tol                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tj=-15°C<br>Bivalent temperature<br>heating / Average                                                                                                                                                                                                                                                                                                                                                                            | Pdh<br>Tbiv                                                                                                                                                                                                                          | -<br>-10                                                                                           | kW<br>]°C                                                                                                                               | Tj=-15°C<br>Operating limit temperature<br>heating / Average                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | COPd<br>COPd<br>Tol                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tj=-15°C<br>Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity                                                                                                                                                                                                                                                                                                       | Pdh<br>Tbiv<br>Tbiv<br>Tbiv<br>Tbiv                                                                                                                                                                                                  | -<br>-10<br>2                                                                                      | kW<br>°C<br>°C                                                                                                                          | Tj=-15°C<br>Operating limit temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval efficiency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | COPd<br>COPd<br>Tol<br>Tol<br>Tol                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tj=-15°C<br>Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling                                                                                                                                                                                                                                                                                        | Pdh<br>Tbiv<br>Tbiv<br>Tbiv<br>Pcycc                                                                                                                                                                                                 | -<br>-10<br>2                                                                                      | kW<br>°C<br>°C                                                                                                                          | Tj=-15°C<br>Operating limit temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval efficiency<br>for cooling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | COPd<br>COPd<br>Tol<br>Tol<br>Tol<br>EERcyc                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tj=-15°C<br>Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity                                                                                                                                                                                                                                                                                                       | Pdh<br>Tbiv<br>Tbiv<br>Tbiv<br>Tbiv                                                                                                                                                                                                  | -<br>-10<br>2<br>-                                                                                 | kW<br>°C<br>°C                                                                                                                          | Tj=-15°C<br>Operating limit temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval efficiency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | COPd<br>COPd<br>Tol<br>Tol<br>Tol                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tj=-15°C<br>Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling<br>for heating                                                                                                                                                                                                                                                                         | Pdh<br>Tbiv<br>Tbiv<br>Tbiv<br>Pcycc                                                                                                                                                                                                 | -<br>-10<br>2<br>-                                                                                 | kW<br>°C<br>°C                                                                                                                          | Tj=-15°C<br>Operating limit temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval efficiency<br>for cooling<br>for heating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | COPd<br>COPd<br>Tol<br>Tol<br>Tol<br>EERcyc                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tj=-15°C<br>Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling                                                                                                                                                                                                                                                                                        | Pdh<br>Tbiv<br>Tbiv<br>Tbiv<br>Pcycc                                                                                                                                                                                                 | -<br>-10<br>2<br>-                                                                                 | kW<br>°C<br>°C                                                                                                                          | Tj=-15°C<br>Operating limit temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval efficiency<br>for cooling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | COPd<br>COPd<br>Tol<br>Tol<br>Tol<br>EERcyc                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tj=-15°C<br>Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling<br>for heating<br>Degradation coefficient<br>cooling                                                                                                                                                                                                                                   | Pdh<br>Tbiv<br>Tbiv<br>Tbiv<br>Pcycc<br>Pcych<br>Cdc                                                                                                                                                                                 | -10<br>2<br>-<br>-<br>-<br>0.25                                                                    | kW<br>°C<br>°C                                                                                                                          | Tj=-15°C<br>Operating limit temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval efficiency<br>for cooling<br>for heating<br>Degradation coefficient<br>heating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | COPd<br>COPd<br>Tol<br>Tol<br>Tol<br>EERcyc<br>COPcyc                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tj=-15°C<br>Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling<br>for heating<br>Degradation coefficient<br>cooling<br>Electric power input in power modes                                                                                                                                                                                            | Pdh<br>Tbiv<br>Tbiv<br>Tbiv<br>Pcycc<br>Pcych<br>Cdc                                                                                                                                                                                 | -10<br>2<br>-<br>-<br>-<br>0.25<br>ive mode'                                                       |                                                                                                                                         | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | COPd<br>COPd<br>Tol<br>Tol<br>Tol<br>Tol<br>EERcyc<br>COPcyc<br>COPcyc                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tj=-15°C<br>Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling<br>for heating<br>Degradation coefficient<br>cooling<br>Electric power input in power modes<br>off mode                                                                                                                                                                                | Pdh<br>Tbiv<br>Tbiv<br>Tbiv<br>Pcycc<br>Pcych<br>Cdc<br>Cdc<br>other than 'act<br>Poff                                                                                                                                               | -10<br>2<br>-<br>-<br>-<br>0.25<br>ive mode'<br>5                                                  |                                                                                                                                         | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | COPd<br>COPd<br>Tol<br>Tol<br>Tol<br>Tol<br>EERcyc<br>COPcyc<br>Cdh                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tj=-15°C<br>Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling<br>for heating<br>Degradation coefficient<br>cooling<br>Electric power input in power modes                                                                                                                                                                                            | Pdh<br>Tbiv<br>Tbiv<br>Tbiv<br>Pcycc<br>Pcych<br>Cdc                                                                                                                                                                                 | -10<br>2<br>-<br>-<br>-<br>0.25<br>ive mode'                                                       |                                                                                                                                         | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | COPd<br>COPd<br>Tol<br>Tol<br>Tol<br>Tol<br>EERcyc<br>COPcyc<br>COPcyc                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tj=-15°C<br>Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling<br>for heating<br>Degradation coefficient<br>cooling<br>Electric power input in power modes<br>off mode<br>standby mode                                                                                                                                                                | Pdh<br>Tbiv<br>Tbiv<br>Tbiv<br>Pcycc<br>Pcych<br>Cdc<br>Other than 'act<br>Poff<br>Psb                                                                                                                                               | -10<br>2<br>-<br>-<br>0.25<br>ive mode'<br>5<br>5<br>5<br>18<br>20                                 |                                                                                                                                         | 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 / Average                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | COPd<br>COPd<br>Tol<br>Tol<br>Tol<br>Tol<br>CoPcyc<br>Cdh                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tj=-15°C<br>Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling<br>for heating<br>Degradation coefficient<br>cooling<br>Electric power input in power modes<br>off mode<br>standby mode                                                                                                                                                                | Pdh<br>Tbiv<br>Tbiv<br>Tbiv<br>Pcycc<br>Pcych<br>Cdc<br>Other than 'act<br>Poff<br>Psb<br>Pto(cooling)                                                                                                                               | -10<br>2<br>-<br>-<br>0.25<br>ive mode'<br>5<br>5<br>18                                            |                                                                                                                                         | 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 / Average heating / Warmer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | COPd<br>COPd<br>Tol<br>Tol<br>Tol<br>EERcyc<br>COPcyc<br>Cdh<br>Qce<br>Qhe<br>Qhe                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tj=-15°C<br>Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling<br>Degradation coefficient<br>cooling<br>Electric power input in power modes<br>off mode<br>standby mode<br>thermostat-off mode<br>crankcase heater mode                                                                                                                               | Pdh<br>Tbiv<br>Tbiv<br>Tbiv<br>Pcycc<br>Pcych<br>Cdc<br>Cdc<br>Other than 'act<br>Poff<br>Psb<br>Pto(cooling)<br>Pto(heating)<br>Pck                                                                                                 | -10<br>2<br>-<br>-<br>0.25<br>ive mode'<br>5<br>5<br>5<br>18<br>20                                 |                                                                                                                                         | 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 / Average heating / Warmer heating / colder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | COPd<br>COPd<br>Tol<br>Tol<br>Tol<br>EERcyc<br>COPcyc<br>Cdh<br>Qce<br>Qhe<br>Qhe                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tj=-15°C<br>Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling<br>for heating<br>Degradation coefficient<br>cooling<br>Electric power input in power modes<br>off mode<br>standby mode<br>thermostat-off mode                                                                                                                                         | Pdh<br>Tbiv<br>Tbiv<br>Tbiv<br>Pcycc<br>Pcych<br>Cdc<br>Cdc<br>Other than 'act<br>Poff<br>Psb<br>Pto(cooling)<br>Pto(heating)<br>Pck                                                                                                 | -10<br>2<br>-<br>-<br>0.25<br>ive mode'<br>5<br>5<br>5<br>18<br>20                                 |                                                                                                                                         | 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 / Average heating / Warmer heating / Colder Other items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | COPd<br>COPd<br>Tol<br>Tol<br>Tol<br>EERcyc<br>COPcyc<br>Cdh<br>Qce<br>Qhe<br>Qhe<br>Qhe                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tj=-15°C<br>Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling<br>Degradation coefficient<br>cooling<br>Electric power input in power modes<br>off mode<br>standby mode<br>thermostat-off mode<br>crankcase heater mode                                                                                                                               | Pdh<br>Tbiv<br>Tbiv<br>Tbiv<br>Pcycc<br>Pcych<br>Cdc<br>Cdc<br>Other than 'act<br>Poff<br>Psb<br>Pto(cooling)<br>Pto(heating)<br>Pck                                                                                                 | -10<br>2<br>-<br>-<br>0.25<br>ive mode'<br>5<br>5<br>5<br>18<br>20                                 |                                                                                                                                         | 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 / Average heating / Warmer heating / colder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | COPd<br>COPd<br>Tol<br>Tol<br>Tol<br>EERcyc<br>COPcyc<br>Cdh<br>Qce<br>Qhe<br>Qhe                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tj=-15°C<br>Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling<br>Degradation coefficient<br>cooling<br>Electric power input in power modes<br>off mode<br>standby mode<br>thermostat-off mode<br>crankcase heater mode                                                                                                                               | Pdh<br>Tbiv<br>Tbiv<br>Tbiv<br>Pcycc<br>Pcych<br>Cdc<br>Other than 'act<br>Poff<br>Psb<br>Pto(cooling)<br>Pto(heating)<br>Pck<br>e options)                                                                                          | -10<br>2<br>-<br>-<br>0.25<br>ive mode'<br>5<br>5<br>5<br>18<br>20                                 |                                                                                                                                         | 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 / Average heating / Warmer heating / colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | COPd<br>COPd<br>Tol<br>Tol<br>Tol<br>EERcyc<br>COPcyc<br>Cdh<br>Qce<br>Qhe<br>Qhe<br>Qhe<br>Qhe<br>Qhe                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tj=-15°C<br>Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling<br>Degradation coefficient<br>cooling<br>Electric power input in power modes<br>off mode<br>standby mode<br>thermostat-off mode<br>crankcase heater mode<br>Capacity control(indicate one of three<br>fixed<br>staged                                                                  | Pdh<br>Tbiv<br>Tbiv<br>Tbiv<br>Pcycc<br>Pcych<br>Cdc<br>Cdc<br>other than 'act<br>Poff<br>Psb<br>Pto(cooling)<br>Pto(heating)<br>Pck<br>e options)<br>No<br>No                                                                       | -10<br>2<br>-<br>-<br>0.25<br>ive mode'<br>5<br>5<br>5<br>18<br>20                                 |                                                                                                                                         | 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 / Average heating / Average heating / Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | COPd<br>COPd<br>Tol<br>Tol<br>Tol<br>COPcyc<br>COPcyc<br>Cdh<br>Qhe<br>Qhe<br>Qhe<br>Qhe<br>Qhe                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tj=-15°C<br>Bivalent temperature<br>heating / Average<br>heating / Warmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling<br>Degradation coefficient<br>cooling<br>Electric power input in power modes<br>off mode<br>standby mode<br>thermostat-off mode<br>crankcase heater mode<br>Capacity control(indicate one of three<br>fixed<br>staged<br>variable                                                      | Pdh<br>Tbiv<br>Tbiv<br>Tbiv<br>Pcycc<br>Pcych<br>Cdc<br>Other than 'act<br>Poff<br>Psb<br>Pto(cooling)<br>Pto(heating)<br>Pck<br>e options)<br>No<br>No<br>Yes                                                                       | -10<br>2<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- |                                                                                                                                         | 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 / Average heating / Varmer heating / Colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | COPd<br>COPd<br>Tol<br>Tol<br>Tol<br>COPcyc<br>COPcyc<br>Cdh<br>Qhe<br>Qhe<br>Qhe<br>Qhe<br>Qhe<br>Qhe<br>Qhe<br>Qhe<br>Qhe |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tj=-15°C<br>Bivalent temperature<br>heating / Average<br>heating / Varmer<br>heating / Colder<br>Cycling interval capacity<br>for cooling<br>for heating<br>Degradation coefficient<br>cooling<br>Electric power input in power modes<br>off mode<br>standby mode<br>thermostat-off mode<br>crankcase heater mode<br>Capacity control(indicate one of three<br>fixed<br>staged<br>variable<br>Contact details for obtaining Name | Pdh<br>Tbiv<br>Tbiv<br>Tbiv<br>Tbiv<br>Pcycc<br>Pcych<br>Cdc<br>Cdc<br>other than 'act<br>Poff<br>Psb<br>Pto(cooling)<br>Pto(heating)<br>Pck<br>e options)<br>No<br>Yes<br>and address c                                             | -10<br>2<br>-<br>-<br>0.25<br>ive mode'<br>5<br>5<br>5<br>18<br>20<br>0                            | kW<br>°C<br>°C<br>°C<br>kW<br>kW<br>kW<br>l<br>l<br>w<br>W<br>W<br>W<br>W<br>W<br>W<br>w<br>unifacturer of                              | 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 / Average heating / Varmer heating / Varmer heating / colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(indoor) r of its authorised representative.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | COPd<br>COPd<br>Tol<br>Tol<br>Tol<br>COPcyc<br>COPcyc<br>Cdh<br>Qhe<br>Qhe<br>Qhe<br>Qhe<br>Qhe<br>Qhe<br>Qhe<br>Qhe<br>Qhe |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 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 modes off mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of three fixed staged variable Contact details for obtaining Market S The                                                  | Pdh<br>Tbiv<br>Tbiv<br>Tbiv<br>Pcycc<br>Pcych<br>Cdc<br>Cdc<br>Other than 'act<br>Poff<br>Psb<br>Pto(cooling)<br>Pto(heating)<br>Pck<br>e options)<br>No<br>No<br>Yes<br>and address c<br>bishi Heavy Ind<br>Square, Stock           | -10<br>2<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | kW<br>°C<br>°C<br>°C<br>kW<br>kW<br>kW<br>l<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>U<br>W<br>U<br>W<br>U<br>U<br>I<br>C<br>C<br>Ondition | 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 / Average heating / Varmer heating / Colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | COPd<br>COPd<br>Tol<br>Tol<br>Tol<br>COPcyc<br>COPcyc<br>Cdh<br>Qhe<br>Qhe<br>Qhe<br>Qhe<br>Qhe<br>Qhe<br>Qhe<br>Qhe<br>Qhe |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 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 modes off mode thermostat-off mode crankcase heater mode Capacity control(indicate one of three fixed staged variable Contact details for obtaining Mateu Mitsul 5 The MHIA                                                    | Pdh<br>Tbiv<br>Tbiv<br>Tbiv<br>Pcycc<br>Pcych<br>Cdc<br>Cdc<br>other than 'act<br>Poff<br>Psb<br>Pto(cooling)<br>Pto(heating)<br>Pck<br>e options)<br>No<br>Yes<br>and address c<br>bishi Heavy Ind<br>Square, Stock<br>E SERVICES I | -10<br>2<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | kW<br>°C<br>°C<br>°C<br>kW<br>kW<br>kW<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                       | 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 / Average heating / Varmer heating / colder Other items Sound power level(indoor) Sound power level(indoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor) r of its authorised representative. ing Europe, Ltd.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | COPd<br>COPd<br>Tol<br>Tol<br>Tol<br>COPcyc<br>COPcyc<br>Cdh<br>Qhe<br>Qhe<br>Qhe<br>Qhe<br>Qhe<br>Qhe<br>Qhe<br>Qhe<br>Qhe | -         -           -10         °C           2         °C           -         -           -         -           -         -           -         -           -         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.26         kWh/a           0.27         dB(A)           60         m3/h |

RWA000Z282 🛕

## (4) 4-way ceiling cassette type (FDTC)

### Model FDTC25VH1

| Information to identify the model(s) to                                                                                                                                               | which the information relates to:            | If function includes heating: Indicate the                               | e heating season the                        |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------|--|
| Indoor unit model name                                                                                                                                                                | FDTC25VH1                                    | information relates to. Indicated values should relate to one            |                                             |  |
| Outdoor unit model name SRC25ZS-W2                                                                                                                                                    |                                              | heating season at a time. Include at least the heating season 'Average'. |                                             |  |
|                                                                                                                                                                                       |                                              |                                                                          |                                             |  |
| Function(indicate if present)                                                                                                                                                         | . Yee                                        | Average(mandatory)                                                       | Yes                                         |  |
| cooling<br>heating                                                                                                                                                                    | Yes<br>Yes                                   | Warmer(if designated)<br>Colder(if designated)                           | Yes<br>No                                   |  |
| lieading                                                                                                                                                                              | Tes                                          | Colder (II designated)                                                   | 110                                         |  |
| Item                                                                                                                                                                                  | symbol value unit                            | Item                                                                     | symbol value class                          |  |
| Design load                                                                                                                                                                           |                                              | Seasonal efficiency and energy efficien                                  |                                             |  |
| cooling                                                                                                                                                                               | Pdesignc 2.50 kW                             | cooling                                                                  | SEER 6.80 A++                               |  |
| heating / Average                                                                                                                                                                     | Pdesignh 2.40 kW                             | heating / Average                                                        | SCOP/A 4.00 A+                              |  |
| heating / Warmer                                                                                                                                                                      | Pdesignh <b>3.00</b> kW                      | heating / Warmer                                                         | SCOP/W 5.10 A+++                            |  |
| heating / Colder                                                                                                                                                                      | Pdesignh - kW                                | heating / Colder                                                         | SCOP/C                                      |  |
| unit Declared capacity at outdoor temperature Tdesignh Back up heating capacity at outdoor temperature Tdesignh                                                                       |                                              |                                                                          |                                             |  |
| heating / Average (-10°C)                                                                                                                                                             | Pdh <b>2.40</b> kW                           | heating / Average (-10°C)                                                | elbu - kW                                   |  |
| heating / Warmer (2°C)                                                                                                                                                                | Pdh <b>3.00</b> kW                           | heating / Warmer (2°C)                                                   | elbu - kW                                   |  |
| heating / Colder (-22°C)                                                                                                                                                              | Pdh - kW                                     | heating / Colder (-22°C)                                                 | elbu - kW                                   |  |
|                                                                                                                                                                                       |                                              |                                                                          |                                             |  |
| Declared capacity for cooling, at indo                                                                                                                                                | or temperature 27(19)°C and                  | Declared energy efficiency ratio, at inde                                | oor temperature 27(19)°C and                |  |
| outdoor temperature Tj                                                                                                                                                                |                                              | outdoor temperature Tj                                                   |                                             |  |
| Tj=35℃                                                                                                                                                                                | Pdc 2.50 kW                                  | Tj=35°C                                                                  | EERd <b>4.10</b> -                          |  |
| Tj=30℃                                                                                                                                                                                | Pdc 1.90 kW                                  | Tj=30°C                                                                  | EERd 5.90 -                                 |  |
| Tj=25℃<br>Tj=20℃                                                                                                                                                                      | Pdc 1.20 kW<br>Pdc 1.10 kW                   | Tj=25℃<br>Ti=20℃                                                         | EERd <b>9.20</b> -<br>EERd <b>13.10</b> -   |  |
| 1]-20 0                                                                                                                                                                               | Pdc 1.10 kW                                  | - <u>-</u> 20 0                                                          |                                             |  |
| Declared capacity for heating / Avera                                                                                                                                                 | ge season, at indoor                         | Declared coefficient of performance / A                                  | verage season, at indoor                    |  |
| temperature 20°C and outdoor tempe                                                                                                                                                    |                                              | temperature 20°C and outdoor temperat                                    |                                             |  |
| Tj=-7°C                                                                                                                                                                               | Pdh <b>2.20</b> kW                           | Tj=-7°C                                                                  | COPd <b>2.56</b> -                          |  |
| Tj=2°C                                                                                                                                                                                | Pdh <b>1.20</b> kW                           | Tj=2°C                                                                   | COPd <b>3.94</b> -                          |  |
| Tj=7°C                                                                                                                                                                                | Pdh 0.90 kW                                  | Tj=7°C                                                                   | COPd <b>5.25</b> -                          |  |
| Tj=12°C                                                                                                                                                                               | Pdh <b>1.10</b> kW                           | Tj=12°C                                                                  | COPd 6.48 -                                 |  |
| Tj=bivalent temperature                                                                                                                                                               | Pdh 2.40 kW                                  | Tj=bivalent temperature                                                  | COPd 2.44 -                                 |  |
| Tj=operating limit                                                                                                                                                                    | Pdh <b>2.40</b> kW                           | Tj=operating limit                                                       | COPd 2.44 -                                 |  |
| Declared capacity for heating / Warm                                                                                                                                                  | er season, at indoor                         | Declared coefficient of performance / V                                  | Varmer season, at indoor                    |  |
| temperature 20°C and outdoor temperature                                                                                                                                              |                                              | temperature 20°C and outdoor temperat                                    |                                             |  |
| Tj=2°C                                                                                                                                                                                | Pdh <b>3.00</b> kW                           | Tj=2°C                                                                   | COPd 2.76 -                                 |  |
| Tj=7℃                                                                                                                                                                                 | Pdh <b>2.00</b> kW                           | Tj=7℃                                                                    | COPd <b>4.78</b> -                          |  |
| Tj=12°C                                                                                                                                                                               | Pdh <b>1.10</b> kW                           | Tj=12°C                                                                  | COPd <b>6.48</b> -                          |  |
| Tj=bivalent temperature                                                                                                                                                               | Pdh <b>3.00</b> kW                           | Tj=bivalent temperature                                                  | COPd 2.76 -                                 |  |
| Tj=operating limit                                                                                                                                                                    | Pdh <b>3.00</b> kW                           | Tj=operating limit                                                       | COPd 2.76 -                                 |  |
|                                                                                                                                                                                       |                                              |                                                                          |                                             |  |
| Declared capacity for heating / Colder season, at indoor<br>Declared coefficient of performance / Colder season, at indoor                                                            |                                              |                                                                          |                                             |  |
| temperature 20°C and outdoor tempe<br>Tj=-7°C                                                                                                                                         | Pdh - kW                                     | temperature 20°C and outdoor tempera<br>Tj=-7°C                          | COPd -                                      |  |
| Tj=2°C                                                                                                                                                                                | Pdh - kW                                     | Tj=2°C                                                                   | COPd                                        |  |
| Tj=7°C                                                                                                                                                                                | Pdh - kW                                     | Tj=7℃                                                                    | COPd -                                      |  |
| Tj=12℃                                                                                                                                                                                | Pdh - kW                                     | Tj=12°C                                                                  | COPd                                        |  |
| Tj=bivalent temperature                                                                                                                                                               | Pdh - kW                                     | Tj=bivalent temperature                                                  | COPd                                        |  |
| Tj=operating limit                                                                                                                                                                    | Pdh - kW                                     | Tj=operating limit                                                       | COPd                                        |  |
| Tj=-15℃                                                                                                                                                                               | Pdh - kW                                     | Tj=-15℃                                                                  | COPd                                        |  |
|                                                                                                                                                                                       |                                              |                                                                          |                                             |  |
| Bivalent temperature<br>heating / Average                                                                                                                                             |                                              | Operating limit temperature                                              |                                             |  |
|                                                                                                                                                                                       | Tbiv <mark>-10</mark> °C<br>Tbiv <b>2</b> °C | heating / Average<br>heating / Warmer                                    | Tol <b>-10</b> °C<br>Tol <b>2</b> °C        |  |
| heating / Warmer<br>heating / Colder                                                                                                                                                  | Tbiv 2 C<br>Tbiv - °C                        | heating / Warmer<br>heating / Colder                                     |                                             |  |
|                                                                                                                                                                                       |                                              | noading / Colder                                                         |                                             |  |
| 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 modes                                                                                                                                                   | other than 'active mode'                     | Annual electricity consumption                                           |                                             |  |
| off mode                                                                                                                                                                              | Poff <b>7</b> W                              | cooling                                                                  | Qce 129 kWh/a                               |  |
| standby mode                                                                                                                                                                          | Psb 7 W                                      | heating / Average                                                        | Qhe <b>840</b> kWh/a                        |  |
| thermostat-off mode                                                                                                                                                                   | Pto(cooling) 14 W                            | heating / Warmer                                                         | Qhe <b>823</b> kWh/a                        |  |
|                                                                                                                                                                                       | Pto(heating) <b>18</b> W                     | heating / colder                                                         | Qhe - kWh/a                                 |  |
| crankcase heater mode                                                                                                                                                                 | Pck 0 W                                      |                                                                          |                                             |  |
|                                                                                                                                                                                       |                                              |                                                                          |                                             |  |
| Capacity control(indicate one of three                                                                                                                                                | e options)                                   | Other items                                                              |                                             |  |
|                                                                                                                                                                                       |                                              | Sound power level(indoor)                                                | Lwa 51 dB(A)                                |  |
| fixed                                                                                                                                                                                 | No                                           | Sound power level(outdoor)                                               | Lwa 58 dB(A)                                |  |
| fixed                                                                                                                                                                                 | No<br>No                                     | Global warming potential<br>Rated air flow(indoor)                       | GWP 675 kgCO2eq.<br>- 510 m <sup>3</sup> /h |  |
| staged<br>variable                                                                                                                                                                    | Yes                                          | Rated air flow(indoor)<br>Rated air flow(outdoor)                        | - <b>1644</b> m <sup>3</sup> /h             |  |
|                                                                                                                                                                                       |                                              |                                                                          | - 1044 111-711                              |  |
| Contact details for obtaining Name and address of the manufacturer or of its authorised representative.<br>more information Mitsubishi Heavy Industries Air-Conditioning Europe, Ltd. |                                              |                                                                          |                                             |  |
| 5 The Square, Stockley Park, Uxbridge, Middlesex, UB11 1ET,United Kingdom                                                                                                             |                                              |                                                                          |                                             |  |
| MHIAE SERVICES B.V.                                                                                                                                                                   |                                              |                                                                          |                                             |  |
| Herike                                                                                                                                                                                | erbergweg 238, Luna ArenA, 1101              | CM Amsterdam, Netherlands                                                |                                             |  |

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### Model FDTC35VH1

| Information to identify the model(s)                                                                                    | to which the information relates to:                                                                                                                                  | If function includes heating: Indicate           | the heating season the              |  |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------|--|
| Indoor unit model name                                                                                                  | I(s) to which the information relates to: If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one |                                                  |                                     |  |
| Outdoor unit model name                                                                                                 | SRC35ZS-W2                                                                                                                                                            | heating season at a time. Include at le          |                                     |  |
|                                                                                                                         |                                                                                                                                                                       |                                                  |                                     |  |
| Function(indicate if present)                                                                                           |                                                                                                                                                                       | Average(mandatory)                               | Yes                                 |  |
| cooling                                                                                                                 | Yes                                                                                                                                                                   | Warmer(if designated)                            | Yes                                 |  |
| heating                                                                                                                 | Yes                                                                                                                                                                   | Colder(if designated)                            | No                                  |  |
|                                                                                                                         |                                                                                                                                                                       |                                                  |                                     |  |
| Item                                                                                                                    | symbol value unit                                                                                                                                                     | Item                                             | symbol value class                  |  |
| Design load<br>cooling                                                                                                  | Pdesignc <b>3.50</b> kW                                                                                                                                               | Seasonal efficiency and energy effici<br>cooling | SEER 7.10 A++                       |  |
|                                                                                                                         | 0                                                                                                                                                                     | 5                                                |                                     |  |
| heating / Average                                                                                                       | 5                                                                                                                                                                     | heating / Average                                | SCOP/A 4.60 A++<br>SCOP/W 5.50 A+++ |  |
| heating / Warmer<br>heating / Colder                                                                                    | Pdesignh <b>3.70</b> kW<br>Pdesignh - kW                                                                                                                              | heating / Warmer<br>heating / Colder             | SCOP/C                              |  |
| Treating / Colder                                                                                                       | Puesigiiii - Kvv                                                                                                                                                      | Treating / Colder                                | unit                                |  |
| Declared capacity at outdoor tempe                                                                                      | rature Tdesignh                                                                                                                                                       | Back up heating capacity at outdoor              |                                     |  |
| heating / Average (-10°C)                                                                                               | Pdh <b>2.90</b> kW                                                                                                                                                    | heating / Average (-10°C)                        | elbu - kW                           |  |
| heating / Warmer (2°C)                                                                                                  | Pdh <b>3.70</b> kW                                                                                                                                                    | heating / Warmer (2°C)                           | elbu - kW                           |  |
| heating / Colder (-22°C)                                                                                                | Pdh - kW                                                                                                                                                              | heating / Colder (-22°C)                         | elbu - kW                           |  |
|                                                                                                                         |                                                                                                                                                                       | Heating / Colder (-22 C)                         |                                     |  |
| Declared capacity for cooling, at ind                                                                                   | oor temperature 27(19)°C and                                                                                                                                          | Declared energy efficiency ratio, at in          | adoor temperature 27(19)°C and      |  |
| outdoor temperature Tj                                                                                                  |                                                                                                                                                                       | outdoor temperature Tj                           |                                     |  |
| Tj=35℃                                                                                                                  | Pdc <b>3.50</b> kW                                                                                                                                                    | Tj=35℃                                           | EERd <b>3.85</b> -                  |  |
| Tj=30°C                                                                                                                 | Pdc <b>2.60</b> kW                                                                                                                                                    | Tj=30°C                                          | EERd <b>5.65</b> -                  |  |
| Tj=25℃                                                                                                                  | Pdc <b>1.70</b> kW                                                                                                                                                    | Tj=25℃                                           | EERd <b>9.10</b> -                  |  |
| Tj=20°C                                                                                                                 | Pdc 1.10 kW                                                                                                                                                           | Tj=20°C                                          | EERd 14.20 -                        |  |
| .,                                                                                                                      |                                                                                                                                                                       | .,                                               |                                     |  |
| Declared capacity for heating / Aver                                                                                    | age season, at indoor                                                                                                                                                 | Declared coefficient of performance              | Average season, at indoor           |  |
| temperature 20°C and outdoor temp                                                                                       |                                                                                                                                                                       | temperature 20°C and outdoor temperature         |                                     |  |
| Tj=-7°C                                                                                                                 | Pdh <b>2.50</b> kW                                                                                                                                                    | Tj=-7°C                                          | COPd <b>2.71</b> -                  |  |
| Tj=2°C                                                                                                                  | Pdh <b>1.50</b> kW                                                                                                                                                    | Tj=2°C                                           | COPd <b>4.78</b> -                  |  |
| Tj=7°C                                                                                                                  | Pdh <b>1.00</b> kW                                                                                                                                                    | Tj=7°C                                           | COPd <b>5.85</b> -                  |  |
| Tj=12°C                                                                                                                 | Pdh <b>1.20</b> kW                                                                                                                                                    | Tj=12°C                                          | COPd <b>6.97</b> -                  |  |
| Tj=bivalent temperature                                                                                                 | Pdh <b>2.90</b> kW                                                                                                                                                    | Tj=bivalent temperature                          | COPd <b>2.51</b> -                  |  |
| Ti=operating limit                                                                                                      | Pdh <b>2.90</b> kW                                                                                                                                                    | Tj=operating limit                               | COPd <b>2.51</b>                    |  |
|                                                                                                                         | Full 2.30 KW                                                                                                                                                          |                                                  | COFU 2.31 -                         |  |
| Declared capacity for heating / War                                                                                     | mer season, at indoor                                                                                                                                                 | Declared coefficient of performance              | /Warmer season at indoor            |  |
| temperature 20°C and outdoor temp                                                                                       |                                                                                                                                                                       | temperature 20°C and outdoor temperature         |                                     |  |
| Ti=2°C                                                                                                                  | Pdh <b>3.70</b> kW                                                                                                                                                    | Tj=2°C                                           | COPd <b>2.82</b> -                  |  |
| Tj=7°C                                                                                                                  | Pdh <b>2.40</b> kW                                                                                                                                                    | Tj=7°C                                           | COPd <b>5.05</b> -                  |  |
| Tj=12°C                                                                                                                 | Pdh <b>1.20</b> kW                                                                                                                                                    | Tj=12°C                                          | COPd <b>6.97</b> -                  |  |
| Tj=bivalent temperature                                                                                                 | Pdh <b>3.70</b> kW                                                                                                                                                    | Tj=bivalent temperature                          | COPd <b>2.82</b> -                  |  |
| Tj=operating limit                                                                                                      | Pdh <b>3.70</b> kW                                                                                                                                                    | Tj=operating limit                               | COPd <b>2.82</b> -                  |  |
|                                                                                                                         | Full <b>3.70</b> KW                                                                                                                                                   |                                                  | COFU 2.02 -                         |  |
| Declared capacity for heating / Colder season, at indoor Declared coefficient of performance / Colder season, at indoor |                                                                                                                                                                       |                                                  |                                     |  |
| temperature 20°C and outdoor temp                                                                                       |                                                                                                                                                                       | temperature 20°C and outdoor temperature         |                                     |  |
| Tj=-7℃                                                                                                                  | Pdh - kW                                                                                                                                                              | Tj=-7°C                                          | COPd -                              |  |
| Tj=2°C                                                                                                                  | Pdh - kW                                                                                                                                                              | Ti=2°C                                           | COPd -                              |  |
| Tj=7°C                                                                                                                  | Pdh - kW                                                                                                                                                              | Tj=7°C                                           | COPd                                |  |
| Tj=12°C                                                                                                                 | Pdh - kW                                                                                                                                                              | Ti=12°C                                          | COPd                                |  |
| 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 -                              |  |
| 1j=-15 C                                                                                                                | Full - KW                                                                                                                                                             | 1]=-15 C                                         | COFU -                              |  |
| Bivalent temperature                                                                                                    |                                                                                                                                                                       | Operating limit temperature                      |                                     |  |
| heating / Average                                                                                                       | Tbiv -10 °C                                                                                                                                                           | heating / Average                                | Tol <b>-10</b> °C                   |  |
| heating / Warmer                                                                                                        | Tbiv 2 °C                                                                                                                                                             | heating / Warmer                                 | Tol 2 °C                            |  |
| heating / Colder                                                                                                        | Tbiv - °C                                                                                                                                                             | heating / Colder                                 | Tol - °C                            |  |
|                                                                                                                         |                                                                                                                                                                       | ,,,                                              | <b>0</b>                            |  |
| 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 modes                                                                                     |                                                                                                                                                                       | Annual electricity consumption                   |                                     |  |
| off mode                                                                                                                | Poff <b>7</b> W                                                                                                                                                       | cooling                                          | Qce 173 kWh/a                       |  |
| standby mode                                                                                                            | Psb 7 W                                                                                                                                                               | heating / Average                                | Qhe 883 kWh/a                       |  |
| thermostat-off mode                                                                                                     | Pto(cooling) 14 W                                                                                                                                                     | heating / Warmer                                 | Qhe 942 kWh/a                       |  |
|                                                                                                                         | Pto(heating) 18 W                                                                                                                                                     | heating / colder                                 | Qhe - kWh/a                         |  |
| crankcase heater mode                                                                                                   | Pck 0 W                                                                                                                                                               |                                                  | · · ·                               |  |
|                                                                                                                         |                                                                                                                                                                       |                                                  |                                     |  |
| Capacity control(indicate one of three                                                                                  | ee options)                                                                                                                                                           | Other items                                      |                                     |  |
|                                                                                                                         |                                                                                                                                                                       | Sound power level(indoor)                        | Lwa 52 dB(A)                        |  |
|                                                                                                                         |                                                                                                                                                                       | Sound power level(outdoor)                       | Lwa 62 dB(A)                        |  |
| fixed                                                                                                                   | No                                                                                                                                                                    | Global warming potential                         | GWP 675 kgCO2eq.                    |  |
| staged                                                                                                                  | No                                                                                                                                                                    | Rated air flow(indoor)                           | - <b>540</b> m <sup>3</sup> /h      |  |
| variable                                                                                                                | Yes                                                                                                                                                                   | Rated air flow(outdoor)                          | - <b>1890</b> m <sup>3</sup> /h     |  |
|                                                                                                                         | e and address of the manufacturer                                                                                                                                     | or of its authorised representative.             | · · ·                               |  |
| more information Mitsubishi Heavy Industries Air-Conditioning Europe, Ltd.                                              |                                                                                                                                                                       |                                                  |                                     |  |
| 5 The Square, Stockley Park, Uxbridge, Middlesex, UB11 1ET, United Kingdom                                              |                                                                                                                                                                       |                                                  |                                     |  |
|                                                                                                                         | AE SERVICES B.V.                                                                                                                                                      | -                                                |                                     |  |
| Herik                                                                                                                   | erbergweg 238, Luna ArenA, 1101                                                                                                                                       | CM Amsterdam, Netherlands                        |                                     |  |

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# **INVERTER RESIDENTIAL AIR-CONDITIONERS**



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