Manual No. '20 • SRK-T-295 updated December 23, 2021



TECHNICAL MANUAL



Note:
(1) Indoor unit in this technical manual will have the service code "/A".
SRK20ZSX-W, -WB, -WT → SRK20ZSX-W/A, -WB/A, -WT/A
SRK25ZSX-W, -WB, -WT → SRK25ZSX-W/A, -WB/A, -WT/A
SRK35ZSX-W, -WB, -WT → SRK35ZSX-W/A, -WB/A, -WT/A
SRK50ZSX-W, -WB, -WT → SRK50ZSX-W/A, -WB/A, -WT/A
SRK60ZSX-W, -WB, -WT → SRK60ZSX-W/A, -WB/A, -WT/A

MITSUBISHI HEAVY INDUSTRIES THERMAL SYSTEMS, LTD.

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How to read the model name



Note(1) In -WB, -WT, all except for the color is the same specification as all -W.

1. SPECIFICATIONS

				Model			SRK20	ZSX-W				
ltem					Indo	or unit SRK	20ZSX-W	Outdoor unit SRC	20ZSX-W			
Power sou	urce					1 Pha	ase, 220 - 240∖	, 50Hz / 220V, 60Hz				
	Nominal cooling	capacity	(range)	kW			2.0 (0.9(Min.) - 3.4 (Max.))				
	Nominal heating	capacity	(range)	kW			2.7 (0.8(Min.)) - 5.5 (Max.))				
	Heating capacity	' (H2)		kW			-	-				
			Cooling			0.31 (0.16 - 0.76)						
	Power consumption	tion	Heating	1.3.47			0.47 (0.1	4 - 1.36)				
	· ·	1	Heating (H2)	KVV								
	Max power cons	umption	······································				1	92				
			Cooling		1	1.9/18/17 (220/ 230/ 240\/)						
	Running current	ŀ	Heating	Δ		2	6/25/24 (2	220/ 230/ 240\/)				
Operation	Inrush current m		nt			2	25	Max Q				
dete	inituon current, n		Cooling				2.5 1	Max. 5				
uala	Power factor	ŀ	Locting	%		10						
			Reating Occline				45					
	EER		Cooling				<u> </u>	45				
	COP		Heating		L		5.	/4				
			Heating (H2)				-	-				
	Sound power lev	/el	Cooling			53		56				
			Heating			55		58				
	Sound pressure	level	Cooling	dB(A)	Hi: 38	Me: 31 Lo: 2	24 ULo: 19	43				
			Heating		Hi: 38	Me: 33 Lo: 2	5 ULo: 19	45				
	Silent mode sour	nd pressi	ure level			-		Cooling:33 / H	leating:38			
Exterior di	mensions (Height	t x Width	x Depth)	mm		305 x 920 x 2	220	640 x 800(+	71) x 290			
Exterior a	opearance					Fine snow		Stucco v	vhite			
(Equivaler	nt color)				Munsell:	(8.0Y 9.3/0.1), RAL: 9003	Munsell: (4.2Y 7.5/	1.1), RAL:7004			
Net weigh	t			kg	1	13		43.0)			
Compress	or type & Quantit	v			1	-		RMT5111SWE3(Twir	n rotary type) x 1			
Compress	or motor (Starting	method)	kW		-		0.75 (Inverte	er driven)			
Refrigerar	nt oil (Amount, typ	e)	,	L		- 0.35 (DIAMOND FREEZE						
Refrigerar	nt (Type amount	pre-char	ae lenath)	ka	R3	2 1 20 in outd	oor unit (Incl. th	e amount for the pipir	ng of 15m)			
Heat exch	anger	pro ona	gelengaly		Louver	fins & inner arc	oved tubing	M fins & inner ar	ooved tubing			
Refrigerar	anger at control				Louvor	Canilla	rv tubes + Elec	tronic expansion valve				
Fan type 8	R Quantity					Tangential fan		Propeller:	, fan v 1			
Fan motor	Ctarting mathed)		۱۸/	l	12 v1 (Direct d		24 x1 (Dire	at drive)			
Fan motor	(Starting method	<u>/</u>	Caaling	~ ~ ~		42 XT (Direct u		34 XT (DIE				
Air flow		Leating	m ³ /min		Me: 10.2 Le:	7.0 UL0. 5.0	31.0)				
Ausilahlau	automol static sus		Heating	De	□. 12.2	IVIE. 10.3 LO.	7.2 UL0. 5.4	31.0)			
Available	external static pre	ssure		Ра		U	-	0				
Outside al							e	-				
Air filter, C	Quality / Quantity				Polypro	pylene net (Wa	ashable) x 2	-				
Shock & v	ibration absorber				Rubb	er sleeve (for f	an motor)	Rubber sleeve (for fan n	notor & compressor)			
Electric he	eater					-		-				
Operation	Remote control					Wireless remote control						
control	Room temperatu	ire contro	ol				Microcomput	er thermostat				
	Operation displa	у				RUN:	Green , TIMEF	R: Yellow , ECO: Blue				
						Compresso	r overheat protec	tion, Overcurrent protect	ion,			
Safety equ	uipments				Frost p	protection, Serial	signal error prote	ection, Indoor fan motor e	error protection,			
					Heating	g overload proted	ction(High press	ure control), Cooling ove	rload protection			
	Refrigerant pipin	g size (C	D.D)	mm		Liquid line:	φ6.35 (1/4")	Gas line: <i>(</i> 9.52 (3	/8")			
	Connecting meth	nod				Flare connect	tion	Flare conr	nection			
1	Attached length	of piping		m	Liquid I	ine : 0.55 / Ga	s line : 0.48	-				
doto	Insulation for pip	ing				Nec	essary (Both s	ides), independent				
uata	Refrigerant line	(one way) length	m			Ma	k. 25				
	Vertical height diff.	between (D/U and I/U	m	Max	.15 (Outdoor	unit is higher)	/ Max.15 (Outdoor un	it is lower)			
	Drain hose				Hose	e connectable	(VP16)	Hole size ϕ 20) x 5 pcs.			
Drain pum	p. max lift height			mm		-	· · · /	-	1			
Recomme	nded breaker size	,		А			1	6				
I R A (Lo	cked rotor amper	e)		Α	1		2	5				
Interconne	ecting wires	Size x (Core number		1.5mn	$n^2 \times 4$ cores (Inc	- Iuding earth cabl	e.) / Terminal block (Scr	w fixing type)			
IP number		0120 /			1.01111		idding cartif cabi		1			
Standard	accessories				Mounting	kit Clean filter (Al	lergen clear filter v	1 Photocatalutic washable o	eodorizing filter v 1)			
Ontion no	accessories				Into	rface kit (SC I		Icoc LAN interface kit				
Notoo	(1) The data are	magauro	d at the follow	ing oor	ditiono			and the Sm	(WE-RAC) I			
Notes (1) The data are measured at the follow			ing cor		· •		engin is om.					
Item Indoor air temperature				Jutdoor air	temperature	s	tandards					
Operation DB WB			DR	VVB								
Cooling 27°C 19°C				35°C	24°C							
Heating 20°C -				/°C	6°C	IS	Jo151-H1					
	Heating (H2)	20°C	<u> </u>		2°C	1°C	I IS	U5151-H2				
	(2) This air-cond	itioner is	manutactured	and te	sted in conf	ormity with the	ISO.					
	(3) Sound level i	ndicates	the value in a	n anech	noic chambe	er. During oper	ation these val	ues are somewhat				
1	higher due to	ambient	conditions.									

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

*1 WF-RAC can be installed inside the indoor unit only for SRK-ZSX-W/A.

RWA000Z271 🖄

				Model		SRK25ZSX-W						
ltem					Indoor	unit SRK	25ZSX-W	Outdoor unit SRC2	5ZSX-W			
Power sou	irce					1 Pha	ise, 220 - 240V	, 50Hz / 220V, 60Hz				
	Nominal coolin	g capacity	/ (range)	kW			2.5 (0.9(Min.) - 3.8 (Max.))				
	Nominal heatir	ng capacity	y (range)	kW			3.2 (0.8(Min.)	- 6.0 (Max.))				
	Heating capaci	ity (H2)		KVV								
	D		Cooling				0.44 (0.1	6 - 0.91)				
	Power consum	iption	Heating	kW			0.59 (0.1	4 - 1.54)				
	Max power cor	oumption	Heating (H2)			1 02						
	Max power cor	Isumption	Cooling		1.82							
	Running currer	nt	Heating	Δ		2	2/30/29 (2	20/ 230/ 240 V)				
Operation	Inrush current	max curre	ent			0	30 1	lax 9				
data		max ourre	Cooling				8	0				
dutu	Power factor		Heating	%		85						
	EER		Cooling				5.0	68				
	000		Heating	1			5.4	42				
	COP		Heating (H2)	1			-	-				
	Sound nework	avel	Cooling			55		57				
	Sound power in	evei	Heating	1		56		58				
	Sound procour		Cooling	dB(A)	Hi: 39	Me: 33 Lo: 2	5 ULo: 19	44				
	Sound pressur	elevei	Heating		Hi: 40	Me: 34 Lo: 2	7 ULo: 19	45				
	Silent mode so	und press	sure level					Cooling:35 / H	leating:39			
Exterior di	mensions (Heig	ht x Width	n x Depth)	mm		305 x 920 x 2	20	640 x 800(+	71) x 290			
Exterior ap	opearance					Fine snow		Stucco v	vhite			
(Equivaler	nt color)				Munsell: (8.0Y 9.3/0.1), RAL: 9003	Munsell: (4.2Y 7.5/	1.1), RAL:7004			
Net weigh	t			kg		13		43.0				
Compress	or type & Quan	tity				-		RMT5111SWE3(Twir	n rotary type)x 1			
Compress	or motor (Starti	ng methoo	d)	kW		-		0.75 (Inverte	er driven)			
Refrigeran	it oil (Amount, ty	ype)		L		-		0.35 (DIAMOND F	REEZE MB75)			
Refrigeran	it (Type, amour	nt, pre-cha	arge length)	kg	R32	1.20 in outdo	oor unit (Incl. th	e amount for the pipir	ig of 15m)			
Heat exch	anger				Louver fi	ns & inner gro	oved tubing	M fins & inner gr	ooved tubing			
Refrigeran	it control					Capilla	y tubes + Elec	ronic expansion valve)			
Fan type &	& Quantity]	angential fan	x 1	Propeller	fan x 1			
Fan motor	(Starting methor	od)	I.a	W	4	2 x1 (Direct d	rive)	34 x1 (Dire	ct drive)			
Air flow			Cooling	m ³ /min	Hi: 12.2 N	/le: 10.0 Lo:	6.7 ULo: 5.0	31.0)			
			Heating		Hi: 12.8 N	/le: 11.0 Lo:	7.8 ULo: 5.4	31.0)			
Available e	external static p	ressure		Ра		0		0				
Outside ai	r intake				Delanar	Not possible	e 	-				
Air filter, C	uality / Quantity	/			Polyprop	yiene net (vva	asnable) x ∠	- 				
Shock & V	Ibration absorbe	er			Rubbe	r sleeve (for f	an motor)	Rubber sleeve (for fan m	notor & compressor)			
Electric ne	Demote contro	1				-	\//ireleee rer	-				
Operation	Remote contro	u uturo contr			Wireless remote control							
control		lav				RUN						
	Operation disp	lay				Compresso	r overheat protec	tion Overcurrent protecti	ion			
Safety equ	linmonte				Frost pr	otection Serial	signal error protect	action. Indoor fan motor e	error protection			
Calety equ	lipments				Heating	overload protec	tion(High press	re control). Cooling over	rload protection			
	Refrigerant nin	ina size (00)	mm	ricating	Liquid line:	d6 35 (1/4")	Gas line: $\phi 9.52$ (3	/8")			
	Connecting me	ethod	,			Flare connect	ion	Flare con	nection			
	Attached lengt	h of pining	1	m	Liauid Iir	ne : 0.55 / Ga	s line : 0.48	-				
Installation	Insulation for p	ipina	,	<u> </u>		Nec	essarv (Both s	ides), independent				
data	Refrigerant lin	e (one wa	y) lenath	m			Max	(.25				
	Vertical height di	ff. between	O/U and I/U	m	Max.	15 (Outdoor	unit is higher)	Max.15 (Outdoor un	it is lower)			
	Drain hose				Hose	connectable ((VP16)	Hole size $\phi 20$) x 5 pcs.			
Drain pum	p, max lift heigh	nt		mm		-	· · · · · ·	-				
Recomme	nded breaker si	ize		Α	Ì		1	6				
L.R.A. (Lo	cked rotor ampe	ere)		Α			3.	0				
Interconne	ecting wires	Size x	Core number		1.5mm ⁴	² x 4 cores (Inc	luding earth cable	e) / Terminal block (Scre	ew fixing type)			
IP number						IPX0		IPX4	1			
Standard a	accessories				Mounting k	it, Clean filter (Al	lergen clear filter x	1, Photocatalytic washable c	leodorizing filter x 1)			
Option pa	rts				Interface	kit(SC-BIKN	2-E),Wireless	LAN interface kit(WF-	RAC)*1			
Notes	(1) The data ar	re measur	ed at the follow	ring con	ditions.		The pipe le	ength is 5m.				
	Item	Indoor	air temperature	e (Dutdoor air te	emperature	9	tandards				
	Operation	DB	WB		DB	WB						
	Cooling 27°C 19°C				35°C	24°C	IS	D5151-T1				
Heating 20°C -					7°C	6°C	ISC	D5151-H1				
	Heating (H2) 20°C -					1°C	ISC ISC	D5151-H2				
	(2) This air-cor	nditioner is	manufactured	and tes	sted in confo	ormity with the	ISO.					
	(3) Sound leve	I indicates	the value in a	n anech	ioic chambei	r. During oper	ation these valu	ues are somewhat				
	higher due	to ambien	t conditions.									
1	(4) Select the b	oreaker siz	ze according to	the ow	n national st	andard.						

				Model	SRK35ZSX-W					
Item					Indoor	unit SRK3	35ZSX-W	Outdoor unit SRC3	35ZSX-W	
Power sou	irce					1 Pha	ise, 220 - 240V	, 50Hz / 220V, 60Hz		
	Nominal coolin	ng capacity	r (range)	kW			3.5 (0.9(Min) - 4.5 (Max.))		
	Nominal heatir	ng capacity	/ (range)	kW			4.3 (0.8(Min.)) - 6.8 (Max.))		
	Heating capac	ity (H2)		kW				_		
			Cooling				0.74 (0.1	6 - 1.27)		
	Power consum	nption	Heating	kW	0.90 (0.14 - 1.87)					
			Heating (H2)					-		
	Max power cor	nsumption					1.9	92		
	Running currer	nt	Cooling			3	//35/34 (2	220/ 230/ 240V)		
	<u> </u>		Heating	A		4	4/43/41 (2	220/ 230/ 240V)		
Operation	Inrush current,	max curre	ent De alimen				4.3 1	Max. 9		
data	Power factor		Cooling	%			9	1		
			Realing				9	Z		
			Heating	{		4.73				
	COP		Heating (H2)				4.			
						58		61		
	Sound power l	evel	Heating			58		62		
			Cooling	dB(A)	Hi 43	Me: 35 Lo: 2	6 ULO:19	48		
	Sound pressur	e level	Heating	aD(/ ()	Hi: 42	vie: 35 Lo: 2	8 ULO: 19	40		
	Silent mode so	und press		1	111. 12 1	-	0 020.10	Cooling:38 / H	leating:43	
Exterior di	mensions (Heid	ht x Width	x Depth)	mm		305 x 920 x 2	20	640 x 800(+)	71) x 290	
Exterior an	opearance	,				Fine snow		Stucco v	white	
(Equivaler	nt color)				Munsell: (8.0Y 9.3/0.1), RAL: 9003	Munsell: (4.2Y 7.5/	(1.1), RAL: 7004	
Net weigh	t			kg	(13	,,	43.0		
Compress	or type & Quan	tity				-		RMT5111SWE3(Twir	n rotary type) x 1	
Compress	or motor (Starti	ng method	3)	kW		-		0.90 (Inverte	er driven)	
Refrigeran	nt oil (Amount, ty	ype)		L		-		0.35 (DIAMOND F	REEZE MB75)	
Refrigeran	nt (Type, amour	nt, pre-cha	rge length)	kg	R32	1.20 in outdo	oor unit (Incl. th	e amount for the pipir	ng of 15m)	
Heat exch	anger				Louver fir	is & inner gro	oved tubing	M fins & inner gr	ooved tubing	
Refrigeran	nt control					Capillar	ry tubes + Elec	tronic expansion valve)	
Fan type &	& Quantity				Т	angential fan	x 1	Propeller	fan x 1	
Fan motor	(Starting method	od)		W	4	2 x1 (Direct d	rive)	34 x1 (Dire	ct drive)	
Air flow			Cooling	m ³ /min	Hi: 13.1 N	/le: 10.8 Lo:	7.3 ULo: 5.0	36.0)	
/			Heating		Hi: 13.9 N	<u>/le: 11.8 Lo:</u>	8.6 ULo: 5.4	31.0)	
Available	external static p	ressure		Ра		0		0		
Outside ai	r intake					Not possible	e	-		
Air filter, C	Quality / Quantity	у			Polypropy	/lene net (Wa	ashable) x 2	-		
Shock & V	Ibration absorbe	er			Rubbe	r sleeve (for fa	an motor)	Rubber sleeve (for fan n	notor & compressor)	
Electric ne	Pamata contro									
Operation	Remote contro	n turo contr				Wireless remote control				
control	Operation disp		01			PLINE (Green TIMES			
		nay				Compresso	r overheat protec	tion Overcurrent protect	ion	
Safety equ	linments				Frost pr	otection Serial	signal error protect	ection Indoor fan motor e	error protection	
Calcty equ	apmento				Heating	overload protec	tion(High press	re control) Cooling ove	rload protection	
	Refrigerant pin	ing size (O.D)	mm	caung .	Liquid line	φ6.35 (1/4")	Gas line: 09.52 (3	8/8")	
	Connectina me	ethod	,			Flare connect	ion	Flare conr	nection	
	Attached lengt	h of pipina	l	m	Liquid lin	ie : 0.55 / Gas	s line : 0.48	-		
Installation	Insulation for p	piping				Nece	essary (Both s	ides), independent		
uaid	Refrigerant lin	ie (one wa	y) length	m			Max	< 25		
	Vertical height di	iff. between	O/U and I/U	m	Max.	15 (Outdoor	unit is higher).	/ Max.15 (Outdoor un	it is lower)	
L	Drain hose				Hose	connectable ((VP16)	Hole size ϕ 2	0 x 5 pcs.	
Drain pum	ıp, max lift heigł	ht		mm		-		-		
Recomme	nded breaker s	ize		A			1	6		
L.R.A. (Lo	cked rotor amp	ere)		A			4.	.3		
Interconne	ecting wires	Size x	Core number		1.5mm ²	x 4 cores (Inc	luding earth cabl	e)/ Terminal block(Scr	ew fixing type)	
IP number	•					IPX0		IPX4	4	
Standard a	accessories				Mounting ki	t, Clean filter (All	lergen clear filter x	1, Photocatalytic washable of	deodorizing filter x 1)	
Option par	rts					kit (SC-BIKN	N2-E),Wireless	S LAN interface kit (WI	RAC)*1	
Notes	(1) The data at	re measur	ed at the follow	ing con	iditions.		I ne pipe le	ength is 5m.	1	
	Operation	inaoor				mperature	S	tandards		
Coolina 27°C 19°C					35°C	2/00	10	O5151-T1		
	Heating	19.0		7°C	24 U 6°C		05151-H1			
	Heating (H2)			2°C	1°C	130	O5151-H2			
	(2) This air-cor	nditioner is	manufactured	and ter	sted in confo	rmity with the	ISO.		I	
	(3) Sound leve	I indicates	the value in a	n anech	ioic chamber	. Durina oper	ation these val	ues are somewhat		
	higher due	to ambien	t conditions.			0,10				
1				4		م به ما م به ما				

				Model	I SRK50ZSX-W						
Item					Indoc	r unit SRK	50ZSX-W	Outdoor unit SRC50	DZSX-W(-W1, -W2)		
Power sou	urce					1 Pha	ise, 220 - 240∨	, 50Hz / 220V, 60Hz			
	Nominal coolin	g capacity	(range)	kW			5.0 (1.0(Min.) - 6.2 (Max.))			
	Nominal heatir	ng capacity	r (range)	kW			6.0 (0.8(Min.) - 8.2 (Max.))			
	Heating capac	ity (H2)		kW			-	-			
			Cooling				1.24 (0.1	9 - 1.90)			
	Power consum	ption	Heating	kW			1.36 (0.2	0 - 2.46)			
			Heating (H2)				-	-			
	Max power cor	nsumption					2.	90			
	Running currer	nt	Cooling			5	.7 / 5.4 / 5.2 (2	220/ 230/ 240V)			
	r tanning oan o		Heating	A		6	.2/6.0/5.7 (2	220/ 230/ 240V)			
Operation	Inrush current,	max curre	nt				5.0	Max.15			
data	Power factor		Cooling	%			9	9			
			Heating				9	9			
	EER		Cooling				4.	03			
	СОР		Heating				4.	41			
			Heating (H2)				-	-			
	Sound power l	evel	Cooling			59		63			
			Heating			62		61			
	Sound pressur	e level	Cooling	dB(A)	Hi: 44	Me: 39 Lo: 3	1 ULo: 22	51			
			Heating		Hi: 47	Me: 41 Lo: 3	3 ULo: 23	49			
Ender 1 1	Silent mode so	und press				-	200	Cooling:42 / H	Heating:43		
⊨xterior di	mensions (Heig	int x Width	x Depth)	mm		305 x 920 x 2	20	640 x 800(+	71) x 290		
Exterior a	opearance				NA	Fine snow		Stucco v			
(Equivaler	t color)			10-7	Munsell:	<u>(8.07 9.3/0.1</u>), KAL: 9003	IVIUNSEII: (4.2Y 7.5/	1.1), RAL:7004		
Net weigh	t			кд		13		45			
Compress	or type & Quan	tity	、 、	1.3.47		-		RMT5111SWE3(TWI	n rotary type) x 1		
Compress	or motor (Starti	ng method)	KVV		-			er ariven)		
Refrigerar	t oll (Amount, t	ype) stans ska		L		0.45 (DIAMOND FREEZE B32_1.30 in outdoor unit (Incl. the amount for the pining of 15r					
Reingerar	nt (Type, amour	nt, pre-cna	rge lengtn)	ку	R32	2 1.30 In Outdo	Sor unit (Incl. tr	le amount for the pipir	ig or ism)		
Heat exch	anger				Louver	Tins & Inner groo	oved tubing	M fins & inner gr	ooved tubing		
Keingerar						Capillar Tongontial for		Dropollor	fon v 1		
Fan type o	x Quantity			10/		1 angentiar ian	X I	Propeller 24 v1 (Dire	at drive)		
Fairmoloi	(Starting metric	Ju)	Cooling	~ ~ ~		Mo: 12.4 Lo:	78 110:54	34 XT (DITE			
Air flow			Heating	m³/min	Hi: 17.3	Me: 1/ 3 Lo:	9.8 110:62		0		
Available	external static n	rassura	rieating	Pa	111. 17.3	0 NIE. 14.3 LU.	3.0 OL0. 0.2	0.	0		
Outside ai	r intake	1033010		1 u		Not possible	0				
Air filter C)uality / Quantity	/			Polypror	vlene net (Wa	shable) v 2	-			
Shock & v	ibration absorb	<u>∽</u> r			Rubbe	er sleeve (for f	an motor)	Rubber sleeve (for fan n	notor & compressor)		
Electric he	ater	51			T (GDD)	-	an motory				
LIOOUTOTIC	Remote contro	1									
Operation	Room tempera	ture contro			Microcomputer thermostat						
control	Operation disp	lav				RUN:	Green TIME	R: Yellow ECO: Blue			
						Compresso	r overheat protec	tion. Overcurrent protect	ion.		
Safety equ	lipments				Frost p	rotection. Serial	signal error prote	ection. Indoor fan motor e	error protection.		
Caller, eq.					Heating	overload protec	tion(High pressu	ure control). Cooling ove	rload protection		
	Refrigerant pip	ina size ((D.D)	mm		Liquid line:	φ6.35 (1/4")	Gas line: Ø12.7 (1	/2")		
	Connectina me	ethod	,			Flare connect	ion	Flare conr	nection		
	Attached lengt	h of pipina		m	Liquid li	ne : 0.55 / Gas	s line : 0.48	-			
Installation	Insulation for p	iping				Nece	essary (Both s	ides), independent			
uaid	Refrigerant lin	e (one way	/) length	m			Max	<.30			
	Vertical height di	ff. between	O/U and I/U	m	Max	.20 (Outdoor	unit is higher)	/ Max.20 (Outdoor un	it is lower)		
	Drain hose				Hose	connectable ((VP16)	Hole size ϕ 2	0 x 5 pcs.		
Drain pum	ıp, max lift heigl	nt		mm							
Recomme	nded breaker s	ize		Α			2	0			
L.R.A. (Lo	cked rotor amp	ere)		Α			5	.0			
Interconne	ecting wires	Size x	Core number		1.5mm	² x 4 cores (Inc	luding earth cabl	e)/ Terminal block(Scr	ew fixing type)		
IP number	^					IPX0		IPX4	4		
Standard a	accessories				Mounting	kit, Clean filter (Al	lergen clear filter x	1, Photocatalytic washable o	deodorizing filter x 1)		
Option pa	rts				Interfac	e kit (SC-BIKI	V2-E),Wireless	LAN interface kit (WI	F-RAC)*1		
Notes	(1) The data ar	e measure	ed at the follow	ring con	ditions.		The pipe le	ength is 5m.			
	Item	Indoor a	ir temperature		Outdoor air t	emperature	2	tandards			
	Operation	DB	WB		DB	WB					
	Cooling	19°C		35°C	24°C	IS	D5151-T1				
	Heating	-		7°C	6°C	IS	D5151-H1				
	Heating (H2)			2°C	1°C	IS:	J5151-H2	l			
	(2) This air-cor	nditioner is	manufactured	and tes	sted in confe	ormity with the	ISO.				
	(3) Sound leve	i indicates	the value in an	n anech	loic chambe	r. During oper	ation these val	ues are somewhat			
1	higher due	to ambient	conditions.								

				Mode	el	SRK60ZSX-W					
Item					Indo	or unit SRK	60ZSX-W	Outdoor unit SRC6	60ZSX-W(-W1)		
Power sou	irce					1 Pha	ase, 220 - 240V	, 50Hz / 220V, 60Hz			
	Nominal coolin	ng capacity	/ (range)	kW			6.1 (1.0(Min.)) - 6.9 (Max.))			
	Nominal heatir	ng capacity	/ (range)	kW			6.8 (0.8(Min.)) - 8.8 (Max.))			
	Heating capac	ity (H2)		kW			-	-			
			Cooling				1.71 (0.1	9 - 2.50)			
	Power consum	nption	Heating	kW			1.65(0.2	.0 - 2.86)			
			Heating (H2)			<u> </u>					
	Max power cor	nsumption					2.9	90			
	Running curre	nt	Cooling			7	.9/7.5/7.2 (2	220/ 230/ 240V)			
	i taning barro		Heating	A		7	7.6/7.2/6.9 (2	220/ 230/ 240V)			
Operation	Inrush current,	max curre	ent				5.0 N	Max. 15			
data	Power factor		Cooling	%			9	9			
			Heating				9	9			
	EER		Cooling				3.	57			
	COP		Heating				4.	12			
			Heating (H2)		_		-	-			
	Sound power I	evel	Cooling			62		65			
			Heating			63		64			
	Sound pressur	re level	Cooling	dB(A) <u>Hi: 48</u>	Me: 41 Lo: 3	3 ULo: 22	52			
			Heating		Hi: 47	Me: 42 Lo: 3	4 ULo: 23	53	1 1 10		
F	Silent mode so	ound press				-	200	Cooling:42 / H	Heating:43		
Exterior di	mensions (Heig	gnt x Width	i x Depth)	rnm	+	305 x 920 x 2	220	640 x 800(+	/1) X 290		
Exterior ap	opearance				NA	Fine snow		Stucco V			
(Equivaler	it color)			ka	Munsell:	(8.01 9.3/0.1), RAL: 9003	Munsell: (4.2Y 7.5/	(1.1), RAL: 7004		
Net weight		414		кд		13		45 DMT54440W/52/ Turi			
Compress	or type & Quan	itity	1)	L)A/	-	-		RIVITSTITSWE3(TWI	n rotary type) x 1		
Compress	or motor (Starti	ng method	1)	KVV	-	-					
Reingeran	t oli (Amount, t	ype) stans sha	una la martin)	L	D	- 0.1.00 in autol	a an unait (In al. th	0.45 (DIAMOND F	REEZE MB/S)		
Heat eyeb	angor	ni, pre-cha	irge lengin)	ĸy		z 1.30 III Outur	oor unit (inci. ti	M fine & inport or	ig of 15m)		
Real excit	t control				Louve	Copillor	ny tubos + Eloc	tronic ovpansion valve			
Fan type &	Cuantity					Tangential fan		Propeller	, fan v 1		
Fan motor	(Starting meth	od)		W		12 v1 (Direct d	rivo)		ct drive)		
T all motor		00)	Cooling	~ ~	Hi: 16.3		89 III o: 54	04 XT (Dile /11 5			
Air flow			Heating	m³/mi	n Hi: 17.8	Me: 13.7 Lo: 1	0.9 010:62	39.0			
Available e	external static n	ressure	ricating	Pa	111. 17.0	0	0.0 010.0.2	00.0			
Outside ai	r intake	lessure		10	+	Not possible	ρ				
Air filter C	uality / Quantity	V			Polypro	pylene net (W	ashable) x 2				
Shock & v	ibration absorb	<u>y</u> er			Rubb	er sleeve (for f	an motor)	Rubber sleeve (for fan n	notor & compressor)		
Electric he	ater	01			- TODE	-	an motory	-			
	Remote contro	bl									
Operation	Room tempera	ature contr	ol			Microcomputer thermostat					
control	Operation disp	lav				RUN:	Green . TIMEF	R: Yellow . ECO: Blue			
	I - F - · · · · · · · · · · ·					Compresso	r overheat protec	tion, Overcurrent protect	ion,		
Safety equ	lipments				Frost	protection, Serial	signal error prote	ection, Indoor fan motor e	error protection,		
					Heatin	g overload protec	tion(High pressu	ire control), Cooling ove	rload protection		
	Refrigerant pig	oina size (O.D)	mm		Liquid line:	φ6.35 (1/4")	Gas line: ϕ 12.7 (1			
	Connecting me	ethod	,			Flare connect	tion	Flare conr	nection		
La atalla di	Attached lengt	h of piping		m	Liquid	line : 0.55 / Ga	s line : 0.48	-			
Installation	Insulation for p	piping				Nec	essary (Both s	ides), independent			
uala	Refrigerant lin	ne (one wa	y) length	m			Max	<.30			
	Vertical height di	iff. between	O/U and I/U	m	Ma	k.20 (Outdoor	unit is higher)	/ Max.20 (Outdoor un	it is lower)		
	Drain hose				Hos	e connectable	(VP16)	Hole size ϕ 2	0 x 5 pcs.		
Drain pum	p, max lift heigl	ht		mm				-			
Recomme	nded breaker s	ize		Α			2	0			
L.R.A. (Lo	cked rotor amp	ere)		Α			5	.0			
Interconne	cting wires	Size x	Core number		1.5m	m ² x 4 cores (Inc	luding earth cabl	e) / Terminal block (Scr	ew fixing type)		
IP number						IPX0		IPX	4		
Standard a	accessories				Mounting	kit, Clean filter (Al	lergen clear filter x	1, Photocatalytic washable of	deodorizing filter x 1)		
Option par	rts				Interfac	e kit (SC-BIKN	I2-E),Wireless	LAN interface kit (WF	-RAC)*1		
Notes	(1) The data a	re measure	ed at the follow	ring co	nditions.		The pipe le	ength is 5m.	1		
	Item	Indoor	air temperature	;	Outdoor air	temperature	s	tandards			
	Operation	DB	WB		DB	WB		-			
	Cooling	27°C	19°C	-+	35°C	24°C	IS	05151-11			
	Heating	20°C	-		7°C	6°C	ISC	J5151-H1			
	Heating (H2)	20°C			2°C		L ISO	J5151-H2	l		
	(2) This air-cor	nditioner is	manutactured	and te	ested in con	formity with the	ISO.				
	(3) Sound leve	i indicates	the value in a	n anec	noic chamb	er. During oper	ation these val	ues are somewhat			
	nigher due	to ambien	t conditions.		,						
1	(4) Select the I	ureaker siz	e according to	ING ON	wn national :	siandard.					

				Model	SRK20ZSX-WB														
Item					Indoo	r unit SRK2	20ZSX-WB	Outdoor unit SRC2	20ZSX-W										
Power sou	irce					1 Pha	se, 220 - 240V	′, 50Hz / 220V, 60Hz											
	Nominal coolin	g capacity	r (range)	kW			2.0 (0.9(Min.) - 3.4 (Max.))											
	Nominal heatin	ng capacity	/ (range)	kW			2.7 (0.8(Min.)) - 5.5 (Max.))											
	Heating capac	ity (H2)		kW															
	_		Cooling			0.31 (0.16 - 0.76)													
	Power consum	ption	Heating	kW			0.47 (0.1	4 - 1.36)											
			Heating (H2)					-											
	Max power cor	nsumption	O a a l'as a			4	1.	92											
	Running currer	nt	Cooling			1	9/18/17 (2	220/ 230/ 240V)											
Operation	Inruch ourrent	max aurre	Heating	A		Ζ	.0/2.3/2.4 (2	220/ 230/ 240 V)											
Operation	inrusn current,	max curre	Cooling				2.3 1												
data	Power factor		Heating	%			/	1											
	FER		Cooling				6.	45											
			Heating				5	74											
	COP		Heating (H2)					_											
			Cooling (112)			53		56											
	Sound power le	evel	Heating			55		58											
			Cooling	dB(A)	Hi: 38	Me: 31 Lo: 2	4 ULO: 19	43											
	Sound pressur	e level	Heating		Hi: 38	Me: 33 Lo: 2	5 ULo: 19	45											
	Silent mode so	ound press	ure level		1 11. 00	-		Coolina:33 / F	leating:38										
Exterior di	mensions (Heid	ht x Width	x Depth)	mm		305 x 920 x 2	20	640 x 800(+)	71) x 290										
Exterior an	pearance		F/		Fine snow	(8.0Y 9.3/0.1)	, (RAL:9003)	Stucco v	vhite										
(Equivaler	it color)				Black (4.0)PB 2.44/0.25)	, (RAL:9011)	Munsell: (4.2Y 7.5/	1.1), RAL:7004										
Net weight	,,			kg	Ì	13		43.0)										
Compress	or type & Quan	tity				-		RMT5111SWE3(Twir	n rotary type)x 1										
Compress	or motor (Starti	ng method	l)	kW		-		0.75 (Inverte	r driven)										
Refrigeran	t oil (Amount, ty	ype)		L		-		0.35 (DIAMOND F	REEZE MB75)										
Refrigeran	t (Type, amour	nt, pre-cha	rge length)	kg	R32	2 1.20 in outdo	oor unit (Incl. th	ne amount for the pipin	ig of 15m)										
Heat exch	anger				Louver f	ns & inner gro	oved tubing	M fins & inner gr	ooved tubing										
Refrigeran	t control					Capillar	y tubes + Elec	tronic expansion valve	•										
Fan type &	& Quantity					Tangential fan	x 1	Propeller f	an x 1										
Fan motor	(Starting metho	od)		W	4	12 x1 (Direct d	rive)	34 x1 (Dire	ct drive)										
Air flow			Cooling	m ³ /min	Hi: 11.3	Me: 9.1 Lo: 6	6.0 ULo: 5.0	31.0											
7 (11 110 10			Heating		Hi: 12.2	Me: 10.3 Lo:	7.2 ULo: 5.4	31.0)										
Available e	external static p	ressure		Pa		0		0											
Outside ai	r intake					Not possible	e	-											
Air filter, C	uality / Quantity	/			Polyprop	oylene net (Wa	ishable) x 2	-											
Shock & v	ibration absorbe	ər			Rubb	er sleeve (for f	an motor)	Rubber sleeve (for fan m	notor & compressor)										
Electric he	ater					-		-											
Operation	Remote contro		•		Wireless remote control														
control	Room tempera	iture contro	ol				Microcomput	er thermostat											
	Operation disp	lay				RUN: (Green , HMEF	R: Yellow , ECO: Blue											
						Compresso	r overheat protec	tion, Overcurrent protecti	on,										
Safety equ	lipments				Frost p	rotection, Serial	signal error prote	ection, Indoor fan motor e	rror protection,										
	Define we we to be	ine size ()		mm	Heating	overload protec	tion(High press	Control), Cooling over	rload protection										
	Connecting me	ing size (i	0.0)	mm		Eloro connect	ψ 0.35 (1/4)	Gas line: ϕ 9.52 (3											
	Attached lengt	h of piping		m	Liquid li														
Installation	Insulation for p	ining				No. 0.00 / Gas	essarv (Roth e	ides) independent											
data	Refrigerant lin	e (one wa	v) lenath	m		NEC	May May	k.25											
	Vertical height di	ff. between	O/U and I/U	m	Max	15 (Outdoor)	unit is higher)	/ Max 15 (Outdoor un	it is lower)										
	Drain hose				Hose	connectable (VP16)	Hole size $d/20$) x 5 pcs.										
Drain pum	p, max lift heigh	nt		mm		-	/												
Recomme	nded breaker s	ize		А			1	6											
L.R.A. (Lo	cked rotor ampe	ere)		А			2	.5											
Interconne	cting wires	Size x	Core number		1.5mm	² x 4 cores (Inc	luding earth cabl	e) / Terminal block (Scre	ew fixing type)										
IP number						IPX0		IPX4	1										
Standard a	accessories				Mounting	kit, Clean filter (Al	ergen clear filter x	1, Photocatalytic washable d	eodorizing filter x 1)										
Option par	rts				Interfac	e kit (SC-BIKN	N2-E),Wireless	LAN interface kit (WF	-RAC)*1										
Notes	(1) The data ar	e measure	ed at the follow	ing con	ditions.		The pipe le	ength is 5m.											
	Item	Indoor a	air temperature	C	Dutdoor air l	emperature	9	tandards											
	Operation	DB	WB		DB	WB													
	Cooling	27°C	19°C		35°C	24°C	IS	O5151-T1											
Heating 20°C -					7°C	6°C	IS	U5151-H1											
Heating (H2) 20°C -					2°C	<u>1°C</u>		Up151-H2											
	(2) This air-cor	naitioner is	manutactured	and tes	sted in conf	ormity with the	ISO.												
	(3) Sound leve	i indicates	the value in an	1 anech	ioic chambe	er. During oper	ation these val	ues are somewhat											
	(4) Select the k	to amplen	conuitions.	the ow	n national s	tandard			higher due to ambient conditions.										

				Model	SRK25ZSX-WB						
Item					Indoor	unit SRK2	5ZSX-WB	Outdoor unit SRC	25ZSX-W		
Power sou	irce					1 Pha	se, 220 - 240V	, 50Hz / 220V, 60Hz			
	Nominal cooling	capacity (rar	nge)	kW			2.5 (0.9(Min.) - 3.8 (Max.))			
	Nominal heating	capacity (rar	nge)	kW			3.2 (0.8(Min.)) - 6.0 (Max.))			
	Heating capacity	/ (H2)		kW			-	_			
		Coc	oling		0.44 (0.16 - 0.91)						
	Power consump	tion Hea	ating	1.1.1/			0.59 (0.1	4 - 1.54)			
		Hea	ating (H2)	KVV			· -				
	Max power cons	sumption	0(/	1			1.	92			
		Coc	ling			2	5/24/23 (2	220/230/240V)			
	Running current	Hea	atina	А		3	2/30/29 (2	220/ 230/ 240V)			
Operation	Inrush current. n	nax current		1			3.0	Max. 9			
data	-	Coc	olina				8	0			
Gata	Power factor	Hea	atina	%			8	5			
	FER	Coc	ling				5	68 68			
		Hes	ating	1			5.	42			
	COP	Hes	ating (H2)	1				-			
						55		57			
	Sound power lev	vel Hor	ning	1		56		58			
		Coc	ling	$dB(\Delta)$	Hi: 30	Mo: 33 Lo: 20	5 110 10	50			
	Sound pressure	level Loc	ning		П. 39	Mo: 34 Lo: 2	7 110.19	44			
	Silont mode acc			1	F1. 40	NIC. 34 LU. 21	ULU. 19	40 Cooline 25 //	Jooting:20		
Extorior	Silent mode sound pressure level					205 x 020 x 0	20		16400 June 200		
Exterior di	mensions (Heigh		epui)		Line	303 X 920 X 2		040 X 800(+	11) X 290		
⊂xterior ap					Fine snow	(0.01 9.3/0.1)	(RAL:9003)	Stucco \			
(⊏quivaien				ke	DIACK (4.0	го 2.44/U.25), 40	, (ITAL.9011)		1.1), KAL: 7004		
Net weight				ку		13		43.U)		
Compress	or type & Quantit	y		1347		-		RMT5111SWE3(TWI	n rotary type) x 1		
Compress	or motor (Starting	g method)		KVV		-		0.75 (Inverte	er driven)		
Refrigeran	t oil (Amount, typ	be)		L		- 0.35 (DIAMOND FREEZE					
Refrigeran	t (Type, amount	, pre-charge I	ength)	кg	R32	1.20 in outdo	or unit (Incl. tr	e amount for the pipir	ng of 15m)		
Heat excha	anger			ļ	Louver fi	ns & inner gro	oved tubing	M fins & inner gr	ooved tubing		
Refrigeran	t control			ļ		Capillar	y tubes + Elec	tronic expansion valve	<u> </u>		
Fan type 8	Quantity					angential fan	x 1	Propeller	tan x 1		
Fan motor	(Starting method	d)		VV	4	2 x1 (Direct dr	ive)	34 x1 (Dire	ct drive)		
Air flow		Coc	oling	m ³ /min	Hi: 12.2 M	/le: 10.0 Lo: 6	5.7 ULo: 5.0	31.0)		
		Hea	ating		Hi: 12.8 N	/le: 11.0 Lo: 7	7.8 ULo: 5.4	31.0)		
Available e	external static pre	essure		Ра		0		0			
Outside ai	r intake				-	Not possible	;	-			
Air filter, Q	uality / Quantity				Polyprop	ylene net (Wa	ishable) x 2	-			
Shock & vi	ibration absorber	•			Rubbe	r sleeve (for fa	an motor)	Rubber sleeve (for fan n	notor & compressor)		
Electric he	ater										
Operation	Remote control				Wireless remote control						
control	Room temperatu	ure control					Microcomput	er thermostat			
00111101	Operation displa	ıy				RUN: C	Green , TIMEF	R: Yellow , ECO: Blue			
						Compressor	overheat protect	tion, Overcurrent protect	ion,		
Safety equ	lipments				Frost pr	otection, Serial	signal error prote	ection, Indoor fan motor e	error protection,		
					Heating	overload protect	tion(High pressu	ire control), Cooling ove	rload protection		
	Refrigerant pipin	ng size (O.D)	mm		Liquid line:	φ6.35(1/4")	Gas line: <i>ф</i> 9.52 (3	3/8")		
	Connecting mether	hod				Flare connecti	on	Flare conr	nection		
Installation	Attached length	of piping		m	Liquid lii	ne : 0.55 / Gas	line : 0.48	-			
data	Insulation for pip	bing				Nece	essary (Both s	ides), independent			
aala	Refrigerant line	(one way) lei	ngth	m			Max	< 25			
	Vertical height diff.	between O/U	and I/U	m	Max.	15 (Outdoor ι	unit is higher)	/ Max.15 (Outdoor un	it is lower)		
	Drain hose				Hose	connectable (VP16)	Hole size ϕ 2	0 x 5 pcs.		
Drain pum	p, max lift height			mm		- ``		-			
Recomme	nded breaker siz	е		A			1	6			
L.R.A. (Lo	cked rotor amper	e)		А			3	.0			
Interconne	cting wires	Size x Core	e number		1.5mm	² x 4 cores (Incl	uding earth cabl	e) / Terminal block (Scr	ew fixing type)		
IP number						IPX0		IPX4	4		
Standard a	accessories				Mounting k	it, Clean filter (Alle	ergen clear filter x	1, Photocatalytic washable of	deodorizing filter x 1)		
Option par	rts				Interface	kit (SC-BIKN	I2-E),Wireless	LAN interface kit (WI	-RAC)*1		
Notes	(1) The data are	measured at	the follow	ing con	ditions.	,	The pipe le	ength is 5m.	,		
	Item	Indoor air te	mperature		Outdoor air t	emperature		ta u da uda			
	Operation	DB	WB		DB	WB	S	landards			
	Cooling	19°C		35°C	24°C	IS	O5151-T1				
	Heating	-		7°C	6°C	IS	O5151-H1				
	Heating (H2)	-		2°C	1°C	IS	O5151-H2				
	(2) This air-cond	litioner is mar	nufactured	and tes	sted in confo	rmity with the	ISO.		•		
	(3) Sound level i	indicates the	value in a	n anech	ioic chambe	. During opera	ation these val	ues are somewhat			
	higher due to	ambient con	ditions.			5 - 1 - 1 - 1					
	(4) Select the br	eaker size ac	cording to	the ow	n national st	andard					

				Mode	SRK35ZSX-WB						
Item					Indo	or unit SRK35ZSX-WB Outdoor unit SRC35ZSX-W					
Power sou	urce					1 Pha	ise, 220 - 240V	, 50Hz / 220V, 60Hz			
	Nominal coolin	g capacity	(range)	kW			3.5 (0.9(Min.) - 4.5 (Max.))			
	Nominal heatin	g capacity	r (range)	kW			4.3 (0.8(Min.)	- 6.8 (Max.))			
	Heating capaci	ty (H2)		kW			-	-			
			Cooling				0.74 (0.1	6 - 1.27)			
	Power consum	ption	Heating	kW			0.90 (0.1	4 - 1.87)			
			Heating (H2)					-			
	Max power cor	nsumption					1.9	92			
	Runnina currer	nt	Cooling			3.7 / 3.5 / 3.4 (220/ 230/ 240V)					
			Heating	A		4	.4/4.3/4.1 (2	20/ 230/ 240V)			
Operation	Inrush current,	max curre	nt				4.3 N	/lax. 9			
data	Power factor		Cooling	%			9	1			
			Heating				9	2			
	EER		Cooling				4.	73			
	COP		Heating		L	4.78					
			Heating (H2)			50		-			
	Sound power le	evel	Cooling		L	58		61			
			Heating			58	0 1 1 10	62			
	Sound pressur	e level	Cooling	aB(A)	HI: 43	Me: 35 Lo: 2	6 ULo: 19	48			
			Heating		HI: 42	Me: 35 Lo: 2	8 ULo: 19	47			
Exterior -"	Silent mode so	una press		m		-	20	Cooling:38 / F	1eating:43		
Exterior di	mensions (Heig	nt x width	x Deptn)	mm		305 X 920 X 2		640 X 800(+	/ 1) X ∠90		
Exterior ap	upearance				Fine snot	ν (δ.UY 9.3/0.1)	, (KAL: 9003)				
(Equivaler				ka	васк (4	UPB 2.44/0.25)	, (RAL:9011)	Wunsell: (4.21 7.5/	1.1), RAL: 7004		
Net weigh		LT		кд		13		43.U			
Compress	or type & Quan	uly an maathad	\	L/\//		-		RIVITSTITSWE3(TWI	rotary type) x i		
Compress	or motor (Startin	ng method)	KVV		-					
Reingeran	t oli (Amount, ty	/pe)	ran longth)	L	D'						
Reingeran	n (Type, amour	it, pre-cha	rge lengtri)	ĸġ		Fine & innor area	oved tubing	M fine & inner or	ig or rom)		
Defrigoron	anger				Louver		oved tubing				
Fon type &	R Quantity					Tangontial fan		Propollor	; fon v 1		
Fan type o	x Quantity	od)		۱۸/		12 x1 (Direct d	x I		ran x n		
1 an motor	(Starting metric	Ju)	Cooling	~~	Li: 13.1	42 X1 (Direct u	73 110.50	36 (
Air flow			Heating	m³/mir	Hi: 13.1	Me: 11.8 Lo:	8.6 LILO: 5.4	31.0)		
Available (external static n	ressure	rieating	Pa	111. 10.0	0	0.0 010. 0.4	01.0)		
Outside ai	r intake	lessure		·α		Not possible	<u>م</u>	-			
Air filter C	Quality / Quantity	/			Polypro	nvlene net (W	ashable.) x 2	_			
Shock & v	ibration absorbe	er			Rubi	per sleeve (for f	an motor)	Rubber sleeve (for fan n	notor & compressor)		
Electric he	ater				T COD	-		-			
Liootiio iio	Remote contro	1					Wireless rer	note control			
Operation	Room tempera	ture contro	bl				Microcompute	er thermostat			
control	Operation disp	lav				RUN:	Green TIMEF	R: Yellow . ECO: Blue			
		,				Compresso	r overheat protec	tion. Overcurrent protect	ion.		
Safetv equ	upments				Frost	protection, Serial	signal error prote	ection, Indoor fan motor e	error protection,		
					Heatin	a overload protec	tion(High pressu	re control). Cooling ove	rload protection		
	Refrigerant pip	ina size ((D.D)	mm		Liquid line:	φ6.35 (1/4")	Gas line:	5/8")		
	Connecting me	thod				Flare connect	ion	Flare conr	nection		
	Attached lengt	n of piping		m	Liquid	line : 0.55 / Gas	s line : 0.48	-			
Installation	Insulation for p	iping				Nec	essary (Both s	ides), independent			
uala	Refrigerant lin	e (one way	/) length	m			Max	.25			
	Vertical height di	ff. between	O/U and I/U	m	Ма	x.15 (Outdoor	unit is higher)	/ Max.15 (Outdoor un	it is lower)		
	Drain hose				Hos	e connectable ((VP16)	Hole size $\phi 2$	0 x 5 pcs.		
Drain pum	p, max lift heigh	nt		mm		-	`	-	· ·		
Recomme	nded breaker si	ze		Α			1	6			
L.R.A. (Lo	cked rotor ampe	ere)		A			4.	3			
Interconne	ecting wires	Size x	Core number		1.5m	m ² x 4 cores (Inc	luding earth cable	e)/ Terminal block(Scr	ew fixing type)		
IP number	r					IPX0		IPX	1		
Standard a	accessories				Mounting	ı kit, Clean filter (Al	lergen clear filter x	1, Photocatalytic washable o	leodorizing filter x 1)		
Option pa	rts				Interfa	ce kit (SC-BIK	N2-E),Wireles	s LAN interface kit (W	F-RAC)*1		
Notes	(1) The data ar	e measure	ed at the follow	ring co	nditions.		The pipe le	ength is 5m.			
	Item	Indoor a	air temperature	•	Outdoor air	temperature	q	tandarde			
	Operation	DB	WB		DB	WB					
	Cooling	27°C	19°C		35°C	24°C	IS	D5151-T1			
Heating 20°C -					7°C	6°C	ISC	D5151-H1			
	Heating (H2)	20°C	-		2°C	1°C	ISC	D5151-H2			
	(2) This air-cor	iditioner is	manufactured	and te	sted in con	formity with the	ISO.				
		indicator	the velue in er	anec	noic chamb	or During oper	ation these valu	ies are somewhat			
(3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat											
	(3) Sound leve higher due	to ambient	conditions.	ranco		er. During oper					

				Mode	I	SRK50ZSX-WB					
Item					Indoc	r unit SRK5	50ZSX-WB	Outdoor unit SRC50	DZSX-W(-W1, -W2)		
Power sou	irce					1 Pha	ise, 220 - 240∨	, 50Hz / 220V, 60Hz			
	Nominal coolir	ng capacity	(range)	kW			5.0 (1.0(Min.) - 6.2 (Max.))			
	Nominal heatin	ng capacity	/ (range)	kW			6.0 (0.8(Min.) - 8.2 (Max.))			
	Heating capac	ity (H2)		kW							
			Cooling				1.24 (0.1	9 - 1.90)			
	Power consum	nption	Heating	L/W			1.36 (0.2	.0 - 2.46)			
			Heating (H2)				-	_			
	Max power co	nsumption				2.90					
	Running curre	nt	Cooling			5	.7 / 5.4 / 5.2 (2	220/ 230/ 240V)			
	Running curre		Heating	A		6	.2/6.0/5.7 (2	220/ 230/ 240V)			
Operation	Inrush current,	, max curre	ent				5.0	Max.15			
data	Power factor		Cooling	%			9	9			
			Heating	70			9	9			
	EER		Cooling				4.	03			
	COP		Heating				4.	41			
			Heating (H2)				-	-			
	Sound power	level	Cooling			59		63			
			Heating			62		61			
	Sound pressur	re level	Cooling	dB(A)	Hi: 44	Me: 39 Lo: 3	1 ULo: 22	51			
			Heating		Hi: 47	Me: 41 Lo: 3	3 ULo: 23	49			
Freder 1	Silent mode so	ound press				-	200	Cooling:42 / H	Heating:43		
Exterior di	mensions (Heig	gnt x Width	I X Depth)	mm		305 x 920 x 2	20	640 x 800(+	/1) x 290		
Exterior ap	opearance				Fine snow	(8.0Y 9.3/0.1)), (RAL:9003)	Stucco v			
(⊨quivaler				1.~	ыаск (4.0	<u>гв 2.44/0.25),</u>	(KAL:9011)	IVIUNSEII : (4.2Y 7.5/	1.1), RAL: 7004		
Net weigh				ку	-	13		45 DMT54440W/50/ Turi			
Compress	or type & Quan	itity	I)	14147	-	-		RIVITSTITSWE3(TWI	n rotary type) x 1		
Compress	or motor (Starti		1)	KVV		- 1.50 (Inverte					
Reingeran	it oli (Amount, t	ype) nt nro cho	rac longth)	L		- 2 1 20 in outd	oor unit (Incl. th	0.45 (DIAMOND F	REEZE [VID / 3]		
Reingeran	nt (Type, amou	nt, pre-cha	irge lengtri)	ĸy		inc & inportant	Sor unit (inci. tr	M fine & inport or	ig or tont)		
Real exch	anger				Louver	Capillor	tubes + Elee				
Fan type &	R Quantity					Capilial Tangontial fan		Propellor	; fan v 1		
Fan type d	(Starting meth	od)		W		12 x1 (Direct d			ct drive)		
1 an motor	(Starting meth	00)	Cooling	vv	Hi: 14 3		7.8 110.54	30			
Air flow			Heating	m ³ /mir	Hi: 17.3	Me: 14.3 Lo:	98 ULO:62	33	0		
Available e	external static r	ressure	riodding	Pa	111. 17.0	0	0.0 020.0.2	0	0		
Outside ai	r intake					Not possible	9	-			
Air filter. C)uality / Quantit	v			Polypro	ovlene net (Wa	shable) x 2	_			
Shock & v	ibration absorb	er			Rubb	er sleeve (for f	an motor)	Rubber sleeve (for fan n	notor & compressor)		
Electric he	ater								. ,		
0	Remote contro	bl				Wireless remote control					
Operation	Room tempera	ature contro	ol				Microcomput	er thermostat			
control	Operation disp	olay				RUN: (Green , TIMEF	R: Yellow , ECO: Blue			
	· · · ·					Compresso	r overheat protec	tion, Overcurrent protect	ion,		
Safety equ	uipments				Frost p	rotection, Serial	signal error prote	ection, Indoor fan motor e	error protection,		
					Heating	overload protec	tion(High pressu	ure control), Cooling ove	rload protection		
	Refrigerant pip	oing size (O.D)	mm		Liquid line:	φ6.35 (1/4")	Gas line: <i>ф</i> 12.7 (1	/2")		
	Connecting m	ethod				Flare connect	ion	Flare conr	nection		
Installation	Attached lengt	th of piping		m	Liquid	ine : 0.55 / Gas	s line : 0.48	-			
data	Insulation for p	piping				Nece	essary (Both s	ides), independent			
	Refrigerant lir	ne (one wa	y) length	m			Max	.30			
	Vertical height d	iff. between	O/U and I/U	m	Max	.20 (Outdoor	unit is higher)	/ Max.20 (Outdoor un	it is lower)		
	Drain hose				Hose	e connectable ((VP16)	Hole size ϕ 2	0 x 5 pcs.		
Drain pum	p, max lift heig	ht		mm		-		-			
Recomme	nded breaker s	lze		A			2	0			
L.R.A. (Lo	cked rotor amp	ere)	0	A		2	5	.U			
Interconne	ecting wires	Size x	Core number	<u> </u>	1.5mn	1 ² x 4 cores (Inc	luding earth cabl	e) / Terminal block (Scr	ew fixing type)		
IP number					Manufactor	IPXU		IPX4	4		
Standard a	accessories				Mounting	kit, Clean filter (Al	ergen clear filter x	I, Photocatalytic washable of	aeodorizing filter x 1)		
Option par	(1) The data a		ad at the follow	ing oo	Interiac		The pipe k	CAN INTERACE KIL (VVP	RAC) I		
Notes		Indoor	air temperature		Outdoor air	omporaturo		angun is om.			
	Operation					WR	S	tandards			
Cooling 27°C 19°C					35°C	24°C	19	O5151-T1			
Heating 20°C -					7°C	6°C	1.5	O5151-H1			
Heating (H2) 20°C -					2°C	1°C	IS	O5151-H2			
	(2) This air-co	nditioner is	manufactured	and te	sted in conf	ormity with the	ISO.		I		
	(3) Sound leve	el indicates	the value in a	n anec	hoic chambe	er. During oper	ation these val	ues are somewhat			
	higher due	to ambien	t conditions.								
1	(4) Select the	hreaker siz	e according to	the ov	n national s	tandard					

				Mode	SRK60ZSX-WB						
Item					Indoo	or unit SRK6	60ZSX-WB	Outdoor unit SRC60ZS	X-W(-W1)		
Power sou	urce					1 Pha	ase, 220 - 240V	, 50Hz / 220V, 60Hz			
	Nominal coolin	ig capacity	(range)	kW			6.1 (1.0(Min.)	- 6.9 (Max.))			
	Nominal heatir	ng capacity	(range)	kW			6.8 (0.8(Min.)	- 8.8 (Max.))			
	Heating capac	ity (H2)		kW				-			
	_		Cooling	1			1.71 (0.1	9 - 2.50)			
	Power consum	ption	Heating	kW			1.65 (0.2	0 - 2.86)			
			Heating (H2)	4				-			
	Max power cor	nsumption					2.	90			
	Running curre	nt	Cooling	· .		7	.9 / 7.5 / 7.2 (220/ 230/ 240V)				
Onenation	- Lamash ar marat		Heating	A		1	.6/7.2/6.9 (2	220/ 230/ 240V)			
Operation	Inrush current,	max curre	ent Cooling				5.0 1	/lax. 15			
data	Power factor		Looting	%			9	9			
			Cooling				3	57			
			Heating	1			3 	12			
	COP		Heating (H2)	1			4.	-	-		
			Cooling			62		65			
	Sound power l	evel	Heating	1		63		64			
			Cooling	dB(A)	Hi [.] 48	Me: 41 Lo: 3	3 UL0:22	52			
	Sound pressur	e level	Heating	1 ` '	Hi: 47	Me: 42 Lo: 3	4 ULo: 23	53			
	Silent mode so	ound press	ure level	1		-		Cooling:42 / Heatin	1g:43		
Exterior di	mensions (Heic	ht x Width	x Depth)	mm		305 x 920 x 2	220	640 x 800(+71) x	290		
Exterior a	opearance		. /		Fine snov	(8.0Y 9.3/0.1), (RAL:9003)	Stucco white			
(Equivaler	nt color)				Black (4.	OPB 2.44/0.25), (RAL:9011)	Munsell : (4.2Y 7.5/1.1),	RAL: 7004		
Net weigh	t			kg		13		45			
Compress	or type & Quan	tity				-		RMT5111SWE3(Twin rotar	y type)x 1		
Compress	or motor (Starti	ng method)	kW		-		1.50 (Inverter driv	ven)		
Refrigerar	nt oil (Amount, t	ype)		L		-		0.45 (DIAMOND FREEZ	ZE MB75)		
Refrigerar	nt (Type, amoui	nt, pre-cha	rge length)	kg	R3	2 1.30 in outd	oor unit (Incl. th	e amount for the piping of 7	15m)		
Heat exch	anger				Louver	fins & inner gro	oved tubing	M fins & inner grooved	d tubing		
Refrigerar	nt control					Capilla	ry tubes + Elec	tronic expansion valve			
Fan type 8	& Quantity					Tangential fan	i x 1	Propeller fan x	1		
Fan motor	 (Starting method) 	od)		W		42 x1 (Direct d	rive)	34 x1 (Direct driv	/e)		
Air flow			Cooling	m ³ /mir	Hi: 16.3	Me: 13.4 Lo: 8	8.9 ULo: 5.4	41.5			
			Heating		Hi: 17.8	Me: 13.7 Lo: 1	0.9 ULo: 6.2	39.0			
Available	external static p	ressure		Ра		0		0			
Outside ai	r intake				Dalama	Not possibl	e	-			
Air filter, C	Quality / Quantity	y			Polypro	pylene net (W	ashable) x 2	-			
SNOCK & V	ibration absorbe	er			Rubb	er sleeve (for f	an motor)	Rubber sleeve (for fan motor a	k compressor)		
Electric ne	Bomoto contro										
Operation	Remote contro	n turo contr	-l			Wireless remote control					
control	Operation disp	lav	51			RUN	Green TIMER		-		
		lay				Compresso	r overheat protec	tion Overcurrent protection	-		
Safety equ	linments				Frost r	protection Serial	signal error prote	action Indoor fan motor error p	rotection		
	alphionto				Heating	overload protect	ction(High press	re control). Cooling overload r	orotection		
	Refrigerant pin	ina size ((20)	mm	Tiodan	Liquid line:	$\frac{1}{\phi 6}$ 35 (1/4")	Gas line: $\phi 12.7 (1/2")$			
	Connecting me	ethod	/	1		Flare connect	tion	Flare connectio	'n		
	Attached lengt	h of pipina		m	Liquid I	ine : 0.55 / Ga	s line : 0.48	-			
Installation	Insulation for p	piping			1	Nec	essary (Both s	ides), independent			
uala	Refrigerant lin	e (one wa	y) length	m			Max	(.30			
	Vertical height di	iff. between	O/U and I/U	m	Max	.20 (Outdoor	unit is higher)	/ Max.20 (Outdoor unit is lo	ower)		
	Drain hose				Hose	e connectable	(VP16)	Hole size ϕ 20 x 5	pcs.		
Drain pum	ıp, max lift heigl	nt		mm		-		-			
Recomme	ended breaker s	ize		А			2	0			
L.R.A. (Lo	cked rotor amp	ere)		A			5.	.0			
Interconne	ecting wires	Size x	Core number		1.5mn	n ² x 4 cores (Inc	luding earth cabl	e)/ Terminal block(Screw fixi	ng type)		
IP number	ſ					IPX0		IPX4			
Standard a	accessories				Mounting	kit, Clean filter (Al	lergen clear filter x	1, Photocatalytic washable deodori	zing filter x 1)		
Option pa	rts				Interfac	ce kit (SC-BIK	N2-E),Wireles	s LAN interface kit (WF-RA	C)*1		
Notes	(1) The data a	re measure	ed at the follow	ing col	nditions.		I he pipe le	ength is 5m.			
	Item	Indoor a	air temperature	;	Outdoor air	temperature	s	tandards			
			VVB		25°C		10	75151 T1			
	Heating	21.0	19.0	-+	30 C	24 U 6°C	15	05151-11 05151-H1			
	Heating (H2) 20°C -				2°C	1°C		05151-H2			
	(2) This air-cor	nditioner is	manufactured	and to	sted in conf	ormity with the					
	(3) Sound leve	l indicates	the value in a	n anecl	noic chambe	er. During oper	ation these val	ues are somewhat			
	higher due	to ambien	t conditions		.sis onambe		alon troop var	ase are comowned			
	higher due to ambient conditions. (4) Select the breaker size according to the own national standard										

				Mode			SRK20Z	ZSX-WT				
ltem					Indoo	r unit SRK2	Outdoor unit SRC2	20ZSX-W				
Power sou	irce					1 Pha	se, 220 - 240V	, 50Hz / 220V, 60Hz				
	Nominal coolir	ng capacity	(range)	kW			2.0 (0.9(Min.) - 3.4 (Max.))				
	Nominal heatir	ng capacity	(range)	kW			2.7 (0.8(Min.)	- 5.5 (Max.))				
	Heating capac	ity (H2)	<u> </u>	kVV			-	-				
			Cooling			0.31 (0.16 - 0.76)						
	Power consum	iption	Heating	kW		0.47 (0.14 - 1.36)						
	Max power co	ncumption	neating (nz)									
						1	9/18/17 (2	92 920/ 230/ 240\/)				
	Running curre	nt	Heating	А		2	$\frac{6}{25}$	20/230/240V)	/ 230/ 240 V)			
Operation	peration Inrush current max current					£	25	Aax 9				
data		max ound	Coolina				7	6				
dulu	Power factor Heating							1				
	EER		Cooling				6.4	45				
	COD		Heating			5.74						
	COP		Heating (H2)				-	_				
	Sound power	aval	Cooling			53		56				
	Sound power i	evei	Heating			55		58				
	Sound pressur	ra laval	Cooling	dB(A)	Hi: 38	Me: 31 Lo: 2	4 ULo: 19	43				
		0 10 101	Heating		Hi: 38	Me: 33 Lo: 2	5 ULo: 19	45				
	Silent mode so	ound press	ure level			-		Cooling:33 / H	leating:38			
Exterior di	mensions (Heig	ght x Width	x Depth)	mm		305 x 920 x 2	20	640 x 800(+)	71) x 290			
Exterior ap	opearance				Titanium gra	ay(1.6Y 6.59/0.6	3), (RAL:7048)	Stucco v	vhite			
(Equivalen	nt color)				Black (4.	0PB 2.44/0.25),	(RAL:9011)	Munsell: (4.2Y 7.5/	1.1), RAL:7004			
Net weight	t			kg		13		43.0)			
Compress	or type & Quan	itity		1.1.4.(-		RMT5111SWE3(Twir	rotary type) x 1			
Compress	or motor (Starti	ng method)	KVV		-		0.75 (Inverte	er driven)			
Refrigeran	it oil (Amount, t	ype)				-		0.35 (DIAMOND F	REEZE MB75)			
Refrigeran	Refrigerant (Type, amount, pre-charge length)			кg	R32	2 1.20 in outdo	bor unit (Incl. th	e amount for the pipir	ig of 15m)			
Heat excha	anger				Louverf	ins & inner gro	oved tubing	M fins & inner gr	ooved tubing			
Refrigeran	Refrigerant control					Capillar	y tubes + Elec	tronic expansion valve				
Fan type 8	Quantity	1)		14/		l angential fan	X 1	Propeller 1	an x 1			
Fan motor	(Starting metho	00)	Caaling	VV	4	2 X1 (Direct di	rive)	34 X1 (Dire	ct arive)			
Air flow			Looling	m ³ /mir	HI: 11.3	Ne: 9.1 Lo: 6	5.0 ULO: 5.0	31.0	1			
Available	ovtornal static n	roccuro	neating	Pa	□1. 12.2 1	0 NIE. 10.3 LO.	7.2 UL0. 5.4					
	r intako	lessure		īα		Not possible	2	0				
Air filter	uality / Quantit	V			Polypror	vlene net (Wa	shahla) v 2					
Shock & vi	ibration absorb	y or			Rubbe	r sleeve (for f	an motor)	Rubber sleeve (for fan m	notor & compressor)			
Electric he	ater				T CODDC	-						
	Remote contro	bl			Wireless remote control							
Operation	Room tempera	ature contro	bl			Microcomputer thermostat						
control	Operation disc	lav				RUN: (Green . TIMEF	R: Yellow . ECO: Blue				
	<u>г - р р</u>					Compressor overheat protection Overcurrent protection						
Safetv equ	lipments				Frost p	Frost protection. Serial signal error protection. Indoor fan motor error protect						
-, - 40					Heating	overload protec	tion(High pressu	ire control), Cooling over	load protection			
	Refrigerant pin	oing size ((D.D)	mm	1	Liquid line:	φ6.35 (1/4")	Gas line: Ø9.52 (3	/8")			
	Connecting me	ethod	,			Flare connect	ion	Flare conr	ection			
La stall 12	Attached lengt	h of piping		m	Liquid li	ne : 0.55 / Gas	s line : 0.48	-				
Installation	Insulation for p	piping				Nece	essary (Both s	ides), independent				
uala	Refrigerant lin	ie (one way	/) length	m			Max	.25				
	Vertical height d	iff. between	O/U and I/U	m	Max	.15 (Outdoor ι	unit is higher).	/ Max.15 (Outdoor un	it is lower)			
	Drain hose				Hose	connectable (VP16)	Hole size ϕ 20) x 5 pcs.			
Drain pum	p, max lift heigl	ht		mm		-		-				
Recomme	nded breaker s	ize		Α			1	6				
L.R.A. (Lo	cked rotor amp	ere)		A			2	5				
Interconnecting wires Size x Core number					1.5mm	² x 4 cores (Incl	luding earth cabl	e)/ Terminal block(Scre	ew fixing type)			
IP number						IPX0		IPX4	1			
Standard accessories					Mounting I	kit, Clean filter (All	ergen clear filter x	1, Photocatalytic washable c	eodorizing filter x 1)			
Option parts					Interfac	e kit (SC-BIK	N2-E),Wireles	s LAN interface kit (W	F-RAC)*1			
Notes	Notes (1) The data are measured at the followir				nditions.	1	The pipe le	ength is 5m.				
	Item	Indoor a	ir temperature	(Outdoor air t	emperature	S	tandards				
	Operation	DB	WB		DB	WB		25454 T1				
	Cooling	27°C	19°C		35°C	24°C	IS	J5151-11				
	Heating	20°C			/°C 6°C ISO5151-H1							
	Heating (H2) 20°C -				2°C	1°C		J0101-HZ				
	(2) I I I I I I I I I I I I I I I I I I I	iuiuoner is	manufactured	and te	steu in confo	n During and	IOU.	In are computed				
	(3) Sound leve	to ombieut	une value in ar	i aneci	ioic champe	i. During opera	auon mese val	ues are somewhat				
1	ingrier aue		conditions.	4	un un etter en el eu	ha wala wal						

			Mode	I		SRK252	ZSX-WT					
Item				Indoor ι	unit SRK25	ZSX-WT	Outdoor unit SRC	25ZSX-W				
Power sou	irce				1 Phase	e, 220 - 240V	, 50Hz / 220V, 60Hz					
	Nominal cooling c	apacity (range)	kW			2.5 (0.9(Min.) - 3.8 (Max.))					
	Nominal heating c	apacity (range)	kW		3	3.2 (0.8(Min.)	- 6.0 (Max.))					
	Heating capacity ((H2)	kW			-	_					
		Cooling				0.44 (0.1	6 - 0.91)					
	Power consumption	on Heating	kW			0.59 (0.1	4 - 1.54)					
		Heating (H2)									
	Max power consu	mption				1.	92					
	Running current	Cooling			2.5	5/24/23 (2	220/ 230/ 240V)					
		Heating	A		3.2	2/3.0/2.9 (2	220/ 230/ 240V)					
Operation	Inrush current, ma	ax current				3.0 M	Лах. 9					
data	Power factor	Cooling	%			8	0					
		Heating	/0			8	5					
	EER	Cooling				5.	68					
	COP	Heating				5.	42					
		Heating (H2)				-					
	Sound power leve	Cooling			55		57					
		Heating			56		58					
	Sound pressure le	vel Cooling	dB(A)	Hi: 39 N	1e: 33 Lo: 25	ULo: 19	44					
		Heating		Hi: 40 N	le: 34 Lo: 27	ULo: 19	45					
L	Silent mode sound	d pressure level		ļ	-		Cooling:35 / H	leating:39				
Exterior di	mensions (Height:	x Width x Depth)	mm	3	305 x 920 x 22	0	640 x 800(+	71) x 290				
Exterior ap	opearance			Titanium gray	(1.6Y 6.59/0.63)), (RAL:7048)	Stucco v	white				
(Equivaler	nt color)		<u> </u>	Black (4.0	PB 2.44/0.25), (F	RAL:9011)	Munsell: (4.2Y 7.5/	1.1), RAL:7004				
Net weigh	t		kg		13		43.0)				
Compress	or type & Quantity				-		RMT5111SWE3(Twir	n rotary type)x 1				
Compress	or motor (Starting	method)	kW		-		0.75 (Inverte	er driven)				
Refrigerar	nt oil (Amount, type)	L		-		0.35 (DIAMOND F	REEZE MB75)				
Refrigerar	Refrigerant (Type, amount, pre-charge length)			R32	1.20 in outdoo	or unit (Incl. th	e amount for the pipir	ng of 15m)				
Heat exch	eat exchanger			Louver fin	s & inner groo	ved tubing	M fins & inner gr	ooved tubing				
Refrigerar	nt control				Capillary	tubes + Elec	tronic expansion valve)				
Fan type &	& Quantity			Ta	angential fan x	:1	Propeller	fan x 1				
Fan motor	· (Starting method)		W	42	x1 (Direct driv	ve)	34 x1 (Dire	ct drive)				
Air flow		Cooling	m ³ /min	Hi: 12.2 M	e: 10.0 Lo: 6.	.7 ULo: 5.0	31.0)				
		Heating		Hi: 12.8 M	e: 11.0 Lo: 7.	.8 ULo: 5.4	31.0)				
Available (external static pres	sure	Ра		0		0					
Outside ai	r intake		_		Not possible		-					
Air filter, C	Quality / Quantity		_	Polypropy	lene net (Was	shable) x 2	-					
Shock & v	ibration absorber		_	Rubber	sleeve (for far	n motor)	Rubber sleeve (for fan n	notor & compressor)				
Electric he	ater		_									
Operation	Remote control		_		Wireless remote control							
control	Room temperatur	e control				Microcomput	er thermostat					
	Operation display				RUN: GI	reen , IIMEr	R: Yellow , ECO: Blue					
0.4.4					Compressor overheat protection, Overcurrent protection,							
Safety equ	lipments			Frost pro	tection, Serial si	gnal error prote	ection, Indoor fan motor e	error protection,				
		. (0.5)		Heating o	verload protection	on(High pressu	ire control), Cooling ove	rload protection				
	Refrigerant piping	size (U.D)	mm		Liquid line: ϕ	0.35(1/4")	Gas line: Ø9.52 (3)/ð")				
	Attached Law at)U Enining			iare connectio		Flare conr	IECTION				
Installation	Allached length of		m		e . 0.55 / Gas I		-					
data	Insulation for pipir	ig manual land the			Neces	sary (Both s	iues), independent					
	Kerrigerant line (one way) length	m	NA-: 4	E (Out-la and	Ma)	(.20 (May 15 (Out-last	it is lower				
	vertical neight diff. b	etween 0/0 and I/0	m	iviax.1	o (Outdoor ur	ILLIS NIGNER)						
D	Drain nose			Hose d	connectable (\	VP16)	Hole size $\varphi \ge 0$	J x 5 pcs.				
Drain pum	ip, max lift height		mm		-		-					
	nueu preaker size	\ \	A			1	0					
L.K.A. (Locked rotor ampere)			A	4.5.2		3.	.0	<i></i>				
Interconnecting wires Size x Core number				1.5mm ⁻		ung earth cabl	e j / Terminal block (Sch	ew lixing type)				
IP number			-	Manuatia a hit		l	IPA4	+				
Standard accessories					, Glean niter (Aller	U2 E) Mirolo	r, Filotocatalytic washable (
Uption parts				ditiono			ss LAN Interface Kit (V	VF-RAC) I				
Notes (1) The data are measured at the followi				Outdoor oir to	mporatura	The pipe is	ingun is om.					
	Operation			Standards								
	Cooling	27°C 10°C		35°C	24°C	10	O5151-T1					
	Heating	20°C	<u> </u>	7°C	6°C	10	05151-H1					
	Heating (H2)	20°C										
	(2) This air-condition	ed and to	sted in confor	mity with the !	<u></u> SO	55101 HZ	l					
	(3) Sound level in	dicates the value in	an anoch	noic chamber	During operat	tion these values	les are somewhat					
	higher due to a	ambient conditions		iole chambel.			add are dornewnal					
		annoine conditions.										

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

*1 WF-RAC can be installed inside the indoor unit only for SRK-ZSX-WT/A.

				Mode			SRK352	ZSX-WT				
Item					Indoor	Indoor unit SRK35ZSX-WT Outdoor unit SRC3						
Power sou	irce					1 Pha	se, 220 - 240V	', 50Hz / 220V, 60Hz				
	Nominal coolin	ng capacity	(range)	kW			3.5 (0.9(Min) - 4.5 (Max.))				
	Nominal heatir	ng capacity	r (range)	kW			4.3 (0.8(Min.)) - 6.8 (Max.))				
	Heating capac	ity (H2)		kW				_				
			Cooling				0.74 (0.1	.74 (0.16 - 1.27)				
	Power consum	nption	Heating	kW		0.90 (0.14 - 1.87)						
			Heating (H2)				-	-				
	Max power cor	nsumption	0 "				1.	92				
	Running curre	nt	Cooling			3	1/35/34 (2	220/ 230/ 240V)				
Onesting			Heating	A		4	4/43/41 (2	220/ 230/ 240 V)				
Operation	Inrusn current,	max curre	nt				4.3 1	viax. 9				
data	Power factor		Looling	%			9	<u> </u>				
	EED		Cooling				9	Z				
			Heating				4.	78				
	COP		Heating (H2)				4.	-				
			Cooling			58		61				
	Sound power I	evel	Heating			58		62				
			Cooling	dB(A)	Hi: 43	Me: 35 Lo: 2	6 110.19	48				
	Sound pressur	re level	Heating	GD() ()	Hi: 42	Me: 35 Lo: 2	8 ULO: 19	40				
	Silent mode so	ound press	ure level	1	111. 72	<u>-</u>	010.10	Cooling:38 / F	leating 43			
Exterior di	mensions (Heir	aht x Width	x Depth)	mm		305 x 920 x 2	20	640 x 800/+	71) x 290			
Exterior an	pearance				Titanium ora	v(1 6Y 6 59/0 6	3) (RAL · 7048)	Stucco v	white			
(Equivalen	t color)				Black (4	0PB 2.44/0.25)	(RAL:9011)	Munsell: (4.2Y 7.5/	1.1). RAL: 7004			
Net weight	:; t			ka	2.001 (1.	13		43.0	.,,			
Compress	or type & Quan	titv		<u> </u>		-		RMT5111SWE3(Twir	rotary type) x 1			
Compress	or motor (Starti	na method)	kW		-		0.90 (Inverte	er driven)			
Refrigeran	t oil (Amount, t	vpe)	/	L		-		0.35 (DIAMOND F	REEZE MB75)			
Refrigeran	t (Type, amou	nt, pre-cha	rae lenath)	kg	R32	1.20 in outdo	oor unit (Incl. th	e amount for the pipir	ng of 15m)			
Heat excha	leat exchanger			Ť	Louver fi	ns & inner gro	oved tubing	M fins & inner gr	ooved tubing			
Refrigeran	efrigerant control					Capillar	y tubes + Elec	tronic expansion valve)			
Fan type 8	an type & Quantity				-	Fangential fan	x 1	Propeller	fan x 1			
Fan motor	(Starting method	od)		W	4	2 x1 (Direct d	rive)	34 x1 (Dire	ct drive)			
Air flow			Cooling	3, .	Hi: 13.1	Me: 10.8 Lo:	7.3 ULo: 5.0	36.0)			
All now			Heating	m ⁻ /mir	Hi: 13.9	Me: 11.8 Lo:	8.6 ULo: 5.4	31.0)			
Available e	external static p	ressure		Pa		0		0				
Outside air	r intake					Not possible	e	-				
Air filter, Q	uality / Quantity	у			Polyprop	ylene net (Wa	ashable) x 2	-				
Shock & vi	ibration absorb	er			Rubbe	er sleeve (for fa	an motor)	Rubber sleeve (for fan n	notor & compressor)			
Electric he	ater											
Operation	Remote contro	bl				Wireless remote control						
control	Room tempera	ature contro	bl				Microcomput	er thermostat				
00111101	Operation disp	olay				RUN: (Green , TIMEF	R: Yellow , ECO: Blue				
						Compressor overheat protection, Overcurrent protection,						
Safety equ	ipments				Frost p	otection, Serial	signal error prote	ection, Indoor fan motor e	error protection,			
					Heating	overload protec	tion(High pressu	ure control), Cooling ove	rload protection			
	Refrigerant pip	oing size ((D.D)	mm		Liquid line:	<i>φ</i> 6.35 (1/4")	Gas line: <i>ф</i> 9.52 (3	/8")			
	Connecting me	ethod				Flare connect	ion	Flare conr	nection			
Installation	Attached lengt	n of piping		m	Liquid li	ne : 0.55 / Gas	s line : 0.48	-				
data	Insulation for p	piping	1) In mark-			Nece	essary (Both s	ides), independent				
	Refrigerant lin	ie (one way	/) length	m	Maria	<u> 45 (Outle an</u>	Max	(<u>.25</u>	(t i= 1			
	Vertical neight di	III. Delween		m	Max.							
Drain num	Drain nose	ht		mm	HUSE	connectable (VPIO)		0 x 5 pcs.			
Becommo	p, max int heigi nded breeker e	izo		Δ		_	1	- <u>-</u>				
	cked rotor amo				<u> </u>		1	<u>,</u> २				
L.K.A. (Locked rotor ampere)					1.5mm	2 x 4 cores (loc	4. Iuding earth cabl	e) / Terminal block (Sor	aw fixing type)			
IR number					1.500		luuling earth cabi		aw lixing type)			
Standard accessories					Mounting 4	it. Clean filter (ΔI	lergen clear filter v	1. Photocatalytic washable of	leodorizina filter x 1 \			
Ontion parts					Inter	ace kit (SC-B	KIKN2-F) Wirel	ess I AN interface kit	(WF-RAC)*1			
Notes	(1) The data a	re measure	ed at the follow	rina cor	nditions		The nine le	enath is 5m				
	(i) iiie data a	Indoor a	air temperature		Outdoor air temperature							
	Operation	DB	WB		DB	WB	S	tandards				
	Coolina	27°C	19°C		35°C	24°C	IS	O5151-T1				
	Heating	20°C	-		7°C 6°C ISO5151-H1							
	Heating (H2)	20°C	-		2°C 1°C ISO5151-H2							
	(2) This air-cor	nditioner is	manufactured	and te	sted in confo	prmity with the	ISO.					
	(3) Sound leve	l indicates	the value in ar	n anecł	noic chambe	r. During oper	ation these val	ues are somewhat				
	higher due	to ambient	conditions.			- •						
1	(1) Select the I	hroakor siz	e according to	the ow	n national st	andard						

				Mode			SRK502	ZSX-WT			
Item					Indo	or unit SRK	50ZSX-WT	Outdoor unit SRC50	ZSX-W(-W1, -W2)		
Power sou	irce				<u> </u>	1 Pha	ise, 220 - 240V	, 50Hz / 220V, 60Hz			
	Nominal coolin	g capacity	/ (range)	kW			5.0 (1.0(Min.) - 6.2 (Max.))			
	Nominal heatin	ng capacity	y (range)	KVV			6.0 (0.8(Min.) - 8.2 (Max.))			
	Heating capaci	ity (H2)	O a allia a	KVV			4.04 (0.4	- 4.00.)			
	Deuter eeneum	untion	Cooling				1.24 (0.1	9 - 1.90)			
	Power consum	ipuon	Heating (H2)	kW			1.30 (0.2	0 - 2.40)			
	Max power consumption						2	00			
						5	7/54/52 (2	20/ 230/ 240\/)			
	Running currer	nt	Heating	A		6	$\frac{2}{60}$	0/ 230/ 240V)			
Operation	Inrush current.	max curre	ent				5.0	Max.15			
data			Coolina				9	9			
	Power factor		Heating	%			9	9			
	EER Cooling						4.	03			
	COR		Heating				4.4	41			
	COP		Heating (H2)			_					
	Sound power l	evel	Cooling			59		63			
		0001	Heating			62		61			
	Sound pressur	e level	Cooling	dB(A) Hi: 44	Me: 39 Lo: 3	1 ULo: 22	51			
	ecuna procedi	0 10 001	Heating		Hi: 47	Me: 41 Lo: 3	3 ULo: 23	49			
	Silent mode so	ound press	sure level			-		Cooling:42 / H	leating:43		
Exterior di	mensions (Heig	ht x Width	n x Depth)	mm		305 x 920 x 2	220	640 x 800(+	71) x 290		
Exterior ap	opearance				Titanium gr	ay(1.6Y 6.59/0.6	3), (RAL:7048)	Stucco v	vhite		
(Equivaler	nt color)				Black (4	.0PB 2.44/0.25),	(RAL:9011)	Munsell : (4.2Y 7.5/	1.1), RAL: 7004		
Net weigh	t			kg	L	13		45			
Compress	or type & Quan	tity				-		RMT5111SWE3(Twir	n rotary type) x 1		
Compress	or motor (Starti	ng methoo	d) (t	kW		-		1.50 (Inverte	er driven)		
Refrigerar	t oil (Amount, ty	ype)		L		-		0.45 (DIAMOND F	REEZE MB75)		
Refrigerar	nt (Type, amour	nt, pre-cha	arge length)	kg	R3	2 1.30 in outd	oor unit (Incl. th	e amount for the pipir	ig of 15m)		
Heat exch	anger				Louver	tins & inner gro	oved tubing	M fins & inner gr	ooved tubing		
Refrigerar	t control					Capilla	ry tubes + Elec	tronic expansion valve			
Fan type &	& Quantity			14/		Tangential fan	x 1	Propeller	tan x 1		
Fan motor	· (Starting metho	od)		VV		42 x1 (Direct d	rive)	34 x1 (Dire	ct drive)		
Air flow			Cooling	m³/mir	HI: 14.3	Me: 12.4 Lo:	7.8 ULo: 5.4	39.	0		
Available	avtornal atatio n	rocouro	пеаціпд	Po	HI: 17.3	IVIE: 14.3 LO:	9.6 UL0: 6.2	33.0	J		
	r intako	lessule		Ta		Not possible	0	0			
Air filtor) uality / Quantity	1			Polypro	nylene net (Ma	e eshable) v 2				
Shock & v	ibration absorb	y ar			Rubb	or sloove (for f	an motor)	Rubber sleeve (for fan m	notor & compressor)		
Electric he	ater	51			TUDL		an motor)		lotor & compressor)		
	Remote contro	1									
Operation	Room tempera	iture contr	ol			Microcomputer thermostat					
control	Operation disp	lav	01			RUN	Green TIMER	Yellow ECO: Blue			
	oporation diop	lay				Compresso	r overheat protec	tion. Overcurrent protect	ion.		
Safety equ	lipments				Frost	protection. Serial	signal error prote	ection. Indoor fan motor e	error protection.		
Caloty oqu	aprilonto				Heatin	overload protect	tion(High pressu	ire control). Cooling ove	rload protection		
	Refrigerant pip	ing size (O.D)	mm		Liquid line	φ6.35 (1/4")	Gas line: 0127 (1	/2")		
	Connecting me	ethod	/		1	Flare connect	ion	Flare conr	nection		
	Attached lengt	h of piping	1	m	Liauid	ine : 0.55 / Ga	s line : 0.48				
Installation	Insulation for p	iping	-			Nec	essary (Both s	ides), independent			
data	Refrigerant lin	e (one wa	y) length	m	1		Max	(.30			
	Vertical height di	ff. between	O/U and I/U	m	Ma	k.20 (Outdoor	unit is higher)	Max.20 (Outdoor un	it is lower)		
	Drain hose				Hos	e connectable	(VP16)	Hole size ϕ 20) x 5 pcs.		
Drain pum	p, max lift heigh	nt		mm	1	-	. ,				
Recomme	nded breaker si	ize		Α			2	0			
L.R.A. (Lo	cked rotor ampe	ere)		Α	1		5.	0			
Interconnecting wires Size x Core number					1.5mr	n ² x 4 cores (Inc	luding earth cabl	e)/ Terminal block(Scre	ew fixing type)		
IP number						IPX0	_	IPX4	1		
Standard accessories					Mounting	kit, Clean filter (Al	lergen clear filter x	1, Photocatalytic washable o	leodorizing filter x 1)		
Option parts					Inte	face kit (SC-B	IKN2-E),Wirel	ess LAN interface kit (WF-RAC)*1		
Notes (1) The data are measured at the follow					nditions.		The pipe le	ength is 5m.			
	Item	Indoor	air temperature		Outdoor air temperature						
	Operation	DB	WB		DB	WB	3				
	Cooling	27°C	19°C		35°C	24°C	IS	D5151-T1			
	Heating	20°C	-		7°C 6°C ISO5151-H1						
	Heating (H2)	20°C	-		2°C	1°C	IS	D5151-H2			
	(2) This air-cor	nditioner is	s manufactured	and te	ested in con	formity with the	ISO.				
	(3) Sound leve	l indicates	the value in a	n anec	hoic chamb	er. During oper	ation these val	ues are somewhat			
	higher due	to ambien	t conditions.								
	(4) Select the h	breaker siz	ze according to	the ov	vn national s	standard.					

				Model			SRK602	ZSX-WT				
Item					Indoc	Indoor unit SRK60ZSX-WT Outdoor unit SRC60ZSX-V						
Power sou	irce					1 Pha	ise, 220 - 240V	, 50Hz / 220V, 60Hz				
	Nominal coolir	ng capacity	(range)	kW			6.1 (1.0(Min.)) - 6.9 (Max.))				
	Nominal heatir	ng capacity	(range)	kW			6.8 (0.8(Min.)) - 8.8 (Max.))				
	Heating capac	ity (H2)		kW			-	_				
			Cooling	1		1.71 (0.19 - 2.50)						
	Power consum	nption	Heating	kW		1.65 (0.20 - 2.86)						
			Heating (H2)	4								
	Max power col	nsumption				2.90						
	Running current Cooling			<u>,</u>		/	<u>.9/7.5/7.2 (2</u>	220/ 230/ 240V)				
Operation	Inruch ourront	max ourro	neaung			/	<u>.0/1.2/0.9 (2</u>	.20/ 230/ 240V) Max 15				
data	inrush current,	max curre	Cooling				<u> </u>	a a a a a a a a a a a a a a a a a a a				
uala	Power factor		Heating	%			9	9				
	FFR		Cooling				3	57				
			Heating	1			4.	12				
	СОР		Heating (H2)	1			-	-				
		aval	Cooling			62		65	5			
	Sound power i	evei	Heating	1		63		64	1			
	Sound procesu	ro loval	Cooling	dB(A)	Hi: 48	Me: 41 Lo: 3	3 ULo: 22	52	2			
	Sound pressul	e level	Heating]	Hi: 47	Me: 42 Lo: 3	4 ULo: 23	53	3			
	Silent mode so	ound press	ure level					Cooling:42 /	Heating:43			
Exterior di	mensions (Heig	ght x Width	x Depth)	mm		305 x 920 x 2	220	640 x 800(-	⊦71) x 290			
Exterior ap	opearance				Titanium gr	ay(1.6 <u>Y 6.59/0.6</u>	3), (RAL:7048)	Stucco	white			
(Equivaler	nt color)				Black (4	.0PB 2.44/0.25),	(RAL:9011)	Munsell : (4.2Y 7.5	5/1.1), RAL: 7004			
Net weight	t			kg		13		45	5			
Compress	or type & Quan	itity				-		RMT5111SWE3(Tw	in rotary type) x 1			
Compress	or motor (Starti	ng method)	kW		-		1.50 (Invert	ter driven)			
Refrigeran	it oil (Amount, t	ype)		L		-		0.45 (DIAMOND	FREEZE MB75)			
Refrigeran	it (Type, amou	nt, pre-cha	rge length)	kg	R3	2 1.30 in outdo	oor unit (Incl. th	e amount for the pipi	ing of 15m)			
Heat exchanger				Louver	fins & inner gro	poved tubing	M fins & inner g	rooved tubing				
Refrigeran	it control					Capilla	ry tubes + Elec	tronic expansion valv	e			
Fan type 8	Fan type & Quantity					Tangential fan	x 1	Propeller	fan x 1			
Fan motor	(Starting meth	od)	<u> </u>	W		42 x1 (Direct d	rive)	34 x1 (Dire	ect drive)			
Air flow			Cooling	m ³ /min	Hi: 16.3	Me: 13.4 Lo: 8	8.9 ULo: 5.4	41.	5			
			Heating	5	Hi: 17.8 I	Vie: 13.7 Lo: 1	0.9 ULo: 6.2	39.0)			
Available e	external static p	oressure		Ра		0		0				
Outside ai	r intake			<u> </u>		Not possible	e	-				
Air filter, C	Quality / Quantity	у			Polypro	oylene net (Wa	ashable) x 2	-				
Shock & V	ibration absorb	er			Rubb	er sleeve (for f	an motor)	Rubber sleeve (for fan	motor & compressor)			
Electric ne	ater					-	Winalaga nan	-				
Operation	Remote contro		.1			Wireless remote control						
control	Room tempera	ature contro)			DUNE		er inerniosiai	<u>,</u>			
	Operation disp	лау				Comproses		tion Oversurrent protect	tion			
Sofoty og	inmonto				Erectr	Compressor overheat protection, Overcurrent protection,						
Salety equ	lipments				Heating	overload protect	signal error prote		erior protection,			
	Pofrigorant nir		יחר	mm	Heating	Liquid line:		Gas line: ϕ 12.7 (1/2")			
	Connecting m	athod	,			Flare connect	ion	Gas inte. φ 12.7 (Flare con	nection			
	Attached lengt	h of nining		m	Liquid	ine : 0 55 / Geo	s line · 0 48					
Installation	Insulation for r	<u>ninina</u>			Eiquid I	Nec	essary (Both s	ides), independent				
data	Refrigerant lin	ie (one way) length	m	1	11000	May	(.30				
	Vertical height d	iff. between	O/U and I/U	m	Max	.20 (Outdoor	unit is higher)	/ Max.20 (Outdoor u	nit is lower)			
	Drain hose				Hose	e connectable	(VP16)	Hole size <i>φ</i>	20 x 5 pcs.			
Drain pum	p, max lift heid	ht		mm		-						
Recomme	nded breaker s	ize		A	1		2	0				
L.R.A. (Lo	cked rotor amp	ere)		Α			5.	.0				
Interconnecting wires Size x Core number				1.5mn	1 ² x 4 cores (Inc	luding earth cable	e) / Terminal block (Sc	rew fixing type)				
IP number						IPX0		IPX	(4			
Standard accessories					Mounting	kit, Clean filter (Al	lergen clear filter x	1, Photocatalytic washable	deodorizing filter x 1)			
Option parts					Inter	face kit (SC-B	IKN2-E),Wirel	ess LAN interface kit	(WF-RAC)*1			
Notes	(1) The data a	re measure	d at the follow	ing cor	nditions.		The pipe le	ength is 5m.				
	Item	Indoor a	iir temperature) (Outdoor air temperature							
	Operation	DB	WB		DB	WB	s					
	Cooling	27°C	19°C		35°C	24°C	IS	O5151-T1				
	Heating	20°C			7°C	6°C	ISC	O5151-H1				
	Heating (H2)	20°C	-	2°C 1°C ISO5151-H2								
	(2) This air-cor	nditioner is	manufactured	and te	sted in conf	ormity with the	ISO.					
	(3) Sound leve	l indicates	the value in ar	n anech	noic chambe	er. During oper	ation these val	ues are somewhat				
	higher due	to ambient	conditions.									
	(4) Select the I	breaker siz	e according to	the ow	n national s	tandard.						

2. EXTERIOR DIMENSIONS

(1) Indoor units

Models SRK20ZSX-W, 25ZSX-W, 35ZSX-W, 50ZSX-W, 60ZSX-W SRK20ZSX-WB, 25ZSX-WB, 35ZSX-WB, 50ZSX-WB, 60ZSX-WB SRK20ZSX-WT, 25ZSX-WT, 35ZSX-WT, 50ZSX-WT, 60ZSX-WT





(2) Outdoor units Models SRC20ZSX-W, 25ZSX-W, 35ZSX-W

RCT000Z025



RCT000Z026 🛆 PCA001Z845

(3) Remote control

(a) Wireless remote control

Unit : mm





(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:0.3mm² 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 mm^2 . Connect them to wires of larger size near the outside of R/C. When wires are connected, take measures to prevent water, etc. from entering inside.

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

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 0.5mm². Change the wire size outside of the case according to wire connecting. Waterproof treatment is necessary at the wire connecting section. Be careful about contact failure.

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

PJZ000Z295

3. ELECTRICAL WIRING

(1) Indoor units

Models SRK20ZSX-W, 25ZSX-W, 35ZSX-W, 50ZSX-W, 60ZSX-W SRK20ZSX-WB, 25ZSX-WB, 35ZSX-WB, 50ZSX-WB, 60ZSX-WB SRK20ZSX-WT, 25ZSX-WT, 35ZSX-WT, 50ZSX-WT, 60ZSX-WT

<u>م ۲ Σ ۲ ۵ ⊃ × ≻</u>
Z



PCB ASSY PGB1 PCB ASSY PCB ASSY PGB1 PCB ASSY PCB A		Meaning of marks	Item Description 20S 4-way valve (coil)	CN20S Connector CNEEV CNEEV	CNFAIN	CM Compressor motor	EEV Electric expansion valve (coil)	FMo Fan motor	L Reactor	TH2 Heat exchanger temperature sensor	TH3 Outdoor air temperature sensor	TH4 Discharge pipe temperature sensor
Since Since Since 2001uh	CNEEV (MH)	ER J			rks	Color	Black	Red	White	Orange	Yellow	Yellow/Green
	BIK)				Color ma	Mark	BK	ß	ΗM	OR .	ЧE	Ъ
	C C C C C C C C C C C C C C C C C C C			Connecting cable wire size x number*		1.5mm ² x 4		onal electricity	<i>f</i>	onduit is used an installation	gulations.	
		208		Power cable length (m)	ŝ	77		ding to national or regi	0	nat a metal or plastic c iltage drop is 2%. For	regional electricity rec	
250/15/ 01/00 (RN) 				Power cable wire size x number*	, , ,	2.0mm≤ x 3		′ellow∕/ Green) nould be chosen accor		ed on the assumption tl ed in a conduit and a vo	e follow the national or	
		Able 1154 WRE 3 MRE 4		-outdoor connecting wires MAX running current (A)		5		rs include earth wire () rcuit breaker capacity sl		 specifications are base in three cables containe 	these conditions, pleas	
Power sourc 1 Phase 220-240V 5 220V 6(EARTH W		Model name	SRC20ZSX-W	SRC357SX-W		 The wire numbe Switchgear or cil 	regulations.	 The power cable with no more that 	falling outside of	

(2) Outdoor units

Models SRC20ZSX-W, 25ZSX-W, 35ZSX-W

Discharge pipe temperature sensor Outdoor air temperature sensor

Yellow/Green

RWC000Z305

	Transistics N Werking N W WI (BK) CMHAN (WH) N W (BK) CM M M CMHAN	Manaira di mada	Item Description	20S Solenoid coil for 4-way valve	CN20S Connector	CNEAN	CNTH CM Compressor motor	EEV Electric expansion valve (coil)	FMo Fan motor	L1,Z Keactor TH1 Heat exchanger temperature sensor	TH2 Outdoor air temperature sensor	TH3 Discharge pipe temperature sensor
							Color marks Mark Color	BK Black	BL Blue	WH White	YE Yellow	YG Yellow/Green
	BB1 ACKE ACKE T1 ACKE T2 ACKE ACK					necting cable size x number*		1.5mm ² x 4				
	LINE CONTRACTOR OF CONTRACTOR CON	205				Power cable length Cc (m)		13		ding to national or regional electricit	hat a metal or plastic conduit is used	oltage drop is 2%. For an installation regional electricity regulations.
					ng wires	t Power cable wire size x number*		2.0mm ² x 3	(0/ -//	ty should be chosen accord	ased on the assumption th	ained in a conduit and a vo ease follow the national or
source e 0V 50Hz 50Hz		ER CABLE 1 2 A	H WIRE		e, indoor-outdoor connectir	me MAX running curren	M-X	X-W 15		numbers include Earth wire ar or Circuit breaker capacit	ns. er cable specifications are b	nore than three cables conta tside of these conditions, pl
Power s 1 Phase 220-240 220V 60		POWE SIGNA	EARTH		Power cable	Model nan	SRC50ZSX	SRC60ZSX		 Switchgea 	 The power 	with no mc falling outs

Models SRC50ZSX-W(-W1, W2), 60ZSX-W(-W1)

4. NOISE LEVEL

(1) Sound power level

Models SRK20ZSX-W, -WB, -WT

(Indoor unit)

Model	SRK20	ZSX-W, -WB, -WT
Noise	Cooling	53 dB(A)
Level	Heating	55 dB(A)

Condition	ISO5151 T1/H1
MODE	Rated capacity value (Hi)

× ····· Cooling, O — Heating 70.0 60.0 Sound power level (dB) 50.0 40.0 30.0 20.0 10.0 125 250 63 500 1000 2000 4000 8000 Mid octave band frequency (Hz)

(Outdoo	r unit)
UUUUUU	i unit)

Model	S	RC20ZSX-W
Noise	Cooling	56 dB(A)
Level	Heating	58 dB(A)





Models SRK25ZSX-W, -WB, -WT

(Indoor	unit)
---------	-------

Model	SRK25ZSX-W, -WB, -WT	
Noise	Cooling	55 dB(A)
Level	Heating	56 dB(A)

Condition	ISO5151 T1/H1
MODE	Rated capacity value (Hi)

 $\times \cdots$ Cooling, \bigcirc — Heating 70.060.0 Sound power level (dB) 50.0 40.0 30.0 20.0 10.0 125 250 500 1000 2000 4000 8000 63 Mid octave band frequency (Hz)

(Outdoor unit)	

Model	SRC25ZSX-W	
Noise	Cooling	57 dB(A)
Level	Heating	58 dB(A)





Models SRK35ZSX-W, -WB, -WT

(Indoor	unit)

Model	SRK35ZSX-W, -WB, -WT	
Noise	Cooling	58 dB(A)
Level	Heating	58 dB(A)

Condition	ISO5151 T1/H1	
MODE	Rated capacity value (Hi)	

× ····· Cooling, O — Heating



(Outdoor unit	i)
---------------	----

Model	SRC35ZSX-W	
Noise	Cooling	61 dB(A)
Level	Heating	62 dB(A)





Models SRK50ZSX-W, -WB, -WT

(Indoor	unit)

Model	SRK50ZSX-W, -WB, -WT		
Noise	Cooling 59 dB(A)		
Level	Heating	62 dB(A)	

Condition	ISO5151 T1/H1	
MODE	Rated capacity value (Hi)	

 $\times \cdots \cdots$ Cooling, \bigcirc — Heating 70.0 60.0 Sound power level (dB) 50.0 40.0 30.0 20.0 10.0 125 250 63 500 1000 2000 4000 8000 Mid octave band frequency (Hz)

(Outdoor	unit)

Model	SRC50ZSX-W(-W1, -W2)			
Noise	Cooling 63 dB(A)			
Level	Heating	61 dB(A)		



Models SRK60ZSX-W, -WB, -WT

(Indoor	unit)
---------	-------

Model	SRK60ZSX-W, -WB, -WT			
Noise	Cooling 62 dB(A)			
Level	Heating	63 dB(A)		

Condition	ISO5151 T1/H1
MODE	Rated capacity value (Hi)

 $\times \cdots \cdots \text{Cooling}, \bigcirc -\!\!-\!\!- \text{Heating}$



(Outdoor unit)

Model	SRC60ZSX-W(-W1)		
Noise	Cooling	65 dB(A)	
Level	Heating	64 dB(A)	





(2) Sound pressure level

(a) Rated capacity value

Models SRK20ZSX-W, -WB, -WT

(Indoor unit)

Model	SRK20ZSX-W, -WB, -WT			
Noise	Cooling 38 dB(A)			
Level	Heating	38 dB(A)		



Condition

ISO5151 T1/H1

Mid octave band frequency (Hz)

(Outdoor unit)

Sound pressure level (dB)

Model	SRC20ZSX-W		
Noise	Cooling 43 dB(A)		
Level Heating		45 dB(A)	

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





			,,,		Condition		-1/11-1	
(Indoor u	init)				Condition	1505151 1	I/HI	
Model	SRK25ZSX-W, -WB, -WT			MODE	Rated capacity value (Hi)			
Noise	Cool	ing	39 dB(A)		 Mike position 			
Level	Heat	ing	40 dB(A)		<u>1r</u>	n		
				_	Unit × ····· Cool	0.8m Mike position (Center & low po ing, () — Hea	^{bints)}	
		70		****			N70 70	
,	_	60		****			60 N60	
-	rvel (dB ⁻⁵ Pa)	⁵⁰ (****			50	
	ressure le lard 2×10	40					40	
-	Sound p (Stand	30					30	
		20					<u>N30</u> 20	
		10 6	53 125 250) 500	1000	2000 4000	N20 10 8000	

Mid octave band frequency (Hz)

(Outdoor unit)

Model	SRC25ZSX-W		
Noise	Cooling	44 dB(A)	
Level	Heating	45 dB(A)	

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





]	Condition	ISO5151 T1/H	1
(Indoor unit)			Ĺ	Condition		
Model	SRK3	5ZSX-W, -WB, -WT	[MODE	Rated capacity value (
Noise	Cooling	43 dB(A)	•	Mike positi	on	
Level	Heating	42 dB(A)		11	<u>n</u>	
·				Unit	0.8m Mike position (Center & low points)	
)	× Cool	ing, () — Heating	
					N70	70
	60					60
05 Pa) 15 Pa)					N60	
						50
sure lo	1×7 40 ¥					40
id pres	andar				<u>N40</u>	
Soun (S)	2 30		······		N30	30
	20					20
					N20	\$
	10 E					10
	63	125 250	500 10	000 20	00 4000 80	00
		Mid o	ctave band fre	equency (Hz		

(Outdoor unit)

Model	SRC35ZSX-W		
Noise	Cooling	48 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	SRC50ZSX-W(-W1, -W2)		
Noise	Cooling	51 dB(A)	
Level	Heating	49 dB(A)	

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




		,,	Condition ISO5151 T1/H1
(Indoor u	init)		MODE Bated capacity value (Hi)
Model	SRK	60ZSX-W, -WB, -WI	
Noise	Cooling	48 dB(A)	
Level	Heating	47 dB(A)	
			Unit Mike position
			(Center & low points)
			\times Cooling, \bigcirc — Heating
	70		70
			<u>N70</u>
	60		60
			N60
dB)			
el (ед 50		50
lev	10-5		N50
sure	$\stackrel{\times}{\overset{\frown}{\Box}}$ 40		40
ores:	darc		N40
d pu	tano		
Sour	$\overline{\mathbf{S}}$ 30		30
01			N30
	20		20
			N20
	10		10
	6	3 125 250	500 1000 2000 4000 8000
		Mid	octave band frequency (Hz)
(Outdoor			
(Outdool	r unit)		•Mike position: at highest poise level in position as mentioned below
Niciaa	Casling		Distance from front side 1m
INOISE	Looting	52 dB(A)	-
Levei	пеаши	53 UB(A)	Cooling O Hosting
	70		70
	6		N70
	60		60
-			N60
(dB)	() () () () () () () () () () () () () (
/el (°d 50 ∕		50
e le	10-		N50
sure	$\hat{\underline{C}}$ 40		40
ores	dan		N40
l pu	Stan		
Sou	<u>51</u> 30		30

Mid octave band frequency (Hz)

10 8000

N20





(Outdoor unit)							
Model	S	Mike					
Noise	Cooling	33 dB(A)	Dista				
Level	Heating	38 dB(A)					

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

Silent

MODE







(Outdoor unit)							
Model	S	RC25ZSX-W					
Noise	Cooling	35 dB(A)					
Level	Heating	39 dB(A)					

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







(Outdoor unit)							
Model	S	RC35ZSX-W					
Noise	Cooling	38 dB(A)					
Level	Heating	43 dB(A)					

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

Silent

MODE







(Outdoor	unit)
----------	-------

Model	SRC50ZSX-W(-W1, -W2)				
Noise	Cooling	42 dB(A)			
Level	Heating	43 dB(A)			

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







(Outdoor unit)							
Model	S	RC60ZSX-W(-W1					
Noise	Cooling	42 dB(A)					
Level	Heating	43 dB(A)					

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

Silent

MODE



5. PIPING SYSTEM



Models SRK50ZSX-W,60ZSX-W SRK50ZSX-WB, 60ZSX-WB SRK50ZSX-WT, 60ZSX-WT



6. RANGE OF USAGE & LIMITATIONS

Item	SRK20, 25, 35ZSX-W SRK20, 25, 35ZSX-WB SRK20, 25, 35ZSX-WT	SRK50, 60ZSX-W SRK50, 60ZSX-WB SRK50, 60ZSX-WT
Indoor return air temperature (Upper, lower limits)	Cooling operation : Appro Heating operation : Appro (Refer to the selection cha	oximately 18 to 32°C DB oximately 10 to 30°C DB art)
Outdoor air temperature (Upper, lower limits)	Cooling operation : Appro Heating operation : Appro (Refer to the selection cha	Distribution of the term of t
Refrigerant line (one way) length	Max. 25m	Max. 30m
Vertical height difference between outdoor unit and indoor unit	Max. 15m (Outdoor unit is higher) Max. 15m (Outdoor unit is lower)	Max. 20m (Outdoor unit is higher) Max. 20m (Outdoor unit is lower)
Power source voltage	Rating	±10%
Voltage at starting	Min. 85%	of rating
Frequency of ON-OFF cycle	Max. 4 t (Inching prevent	imes/h tion 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 \times Correction factors as follows.

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



(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	25	30
Cooling	1.0	0.99	0.975	0.965	0.95	0.935
Heating	1.0	1.0	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	-20	-15	-10	-9	-7	-5	-3	-1	1	3	5 or more
Adjustment coefficient	0.95	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 SRK35ZSX-W with the piping length of 15m, indoor wet-bulb temperature at 19.0°C

and outdoor dry-bulb temperature 35°C is



7. CAPACITY TABLES

Model SRK20ZSX-W, -WB, -WT Г

Cooling	mode
Indoor air temperature	

_

(kW)

Heating mode (HC)

Outdoor
ouraoor

Heating mode (HC)

(kW)

(kW)

(1-100)

	Outdoor	Indoor air temperature													
A := 6 =	air	21°(CDB	23°0	CDB	26°CDB		27°CDB		28°0	CDB	31°(CDB	33°(CDB
AIF HOW	temperature	14°C	CWB	16°CWB		18°CWB		19°CWB		20°CWB		22°0	CWB	24°C	CWB
	°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
	10	2.25	2.12	2.36	2.09	2.45	2.19	2.49	2.17	2.53	2.14	2.60	2.26	2.67	2.21
	12	2.21	2.10	2.32	2.07	2.41	2.18	2.45	2.16	2.50	2.14	2.58	2.26	2.65	2.20
	14	2.17	2.06	2.28	2.05	2.38	2.17	2.42	2.15	2.47	2.12	2.55	2.24	2.62	2.20
	16	2.13	2.02	2.24	2.03	2.34	2.15	2.39	2.13	2.43	2.11	2.52	2.23	2.59	2.17
	18	2.08	1.98	2.19	2.01	2.30	2.14	2.35	2.12	2.40	2.10	2.49	2.22	2.56	2.16
	20	2.04	1.94	2.15	2.00	2.26	2.13	2.31	2.11	2.36	2.09	2.45	2.20	2.53	2.15
	22	1.99	1.89	2.10	1.97	2.22	2.11	2.28	2.10	2.32	2.08	2.42	2.19	2.50	2.14
	24	1.94	1.85	2.05	1.95	2.18	2.07	2.24	2.09	2.28	2.07	2.38	2.18	2.47	2.14
	26	1.90	1.80	2.01	1.91	2.14	2.03	2.20	2.07	2.24	2.05	2.35	2.17	2.43	2.13
	28	1.85	1.75	1.96	1.86	2.09	1.99	2.15	2.05	2.20	2.04	2.31	2.16	2.40	2.12
	30	1.79	1.70	1.90	1.81	2.05	1.94	2.11	2.01	2.16	2.02	2.27	2.15	2.36	2.11
11.2	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	2.10
(m ³ /min)	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	2.09
(((())))	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	2.08
	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	2.08
	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	2.07
	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	2.06
	40	1.52	1.44	1.63	1.55	1.80	1.71	1.88	1.79	1.93	1.83	2.06	1.96	2.16	2.05
	41	1.49	1.42	1.60	1.52	1.77	1.69	1.86	1.76	1.90	1.81	2.04	1.94	2.14	2.03
	42	1.46	1.39	1.57	1.49	1.75	1.66	1.83	1.74	1.88	1.78	2.02	1.92	2.11	2.01
	43	1.43	1.36	1.54	1.46	1.72	1.64	1.81	1.72	1.85	1.76	1.99	1.89	2.09	1.99
	44	1.40	1.33	1.51	1.43	1.69	1.61	1.78	1.69	1.83	1.74	1.97	1.87	2.07	1.96
	45	1.37	1.30	1.48	1.40	1.67	1.58	1.76	1.67	1.80	1.71	1.95	1.85	2.04	1.94
	46	1.34	1.27	1.44	1.37	1.64	1.56	1.73	1.64	1.77	1.69	1.92	1.83	2.02	1.92

Air flow	Outdoor air temperature	Indoor air temperature							
	°CWB	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB			
	-20	1.44	1.40	1.35	1.32	1.28			
	-15	1.66	1.63	1.59	1.55	1.52			
	-10	1.88	1.85	1.82	1.78	1.74			
1.8	-5	2.04	2.01	1.97	1.94	1.91			
10.0	0	2.13	2.10	2.07	2.04	2.01			
(m ³ /min)	5	2.72	2.69	2.67	2.62	2.58			
(((()))))	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			

Model	SRK25	5ZS2	X-W	, -W	В, -'	WΤ		Cooling mode							(kW
	Outdoor						Indo	or air t	empera	iture					
A:	air	21°(DB	23°0	DB	26°0	26°CDB		DB	28°C	DB	31°(CDB	33°0	CDB
AIT HOW	temperature	14°C	WB	16°C	WB	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	2.65	2.95	2.61	3.06	2.75	3.11	2.72	3.16	2.69	3.26	2.83	3.34	2.77
	12	2.77	2.62	2.90	2.58	3.01	2.73	3.07	2.71	3.12	2.68	3.22	2.82	3.31	2.76
	14	2.71	2.58	2.85	2.56	2.97	2.72	3.03	2.69	3.08	2.67	3.18	2.81	3.28	2.74
	16	2.66	2.53	2.80	2.54	2.92	2.70	2.98	2.68	3.04	2.65	3.15	2.80	3.24	2.73
	18	2.60	2.47	2.74	2.52	2.88	2.68	2.94	2.66	2.99	2.64	3.11	2.78	3.20	2.72
	20	2.55	2.42	2.68	2.49	2.83	2.66	2.89	2.64	2.95	2.62	3.07	2.76	3.17	2.71
	22	2.49	2.37	2.63	2.47	2.78	2.64	2.84	2.62	2.90	2.60	3.02	2.75	3.13	2.68
	24	2.43	2.31	2.57	2.44	2.72	2.59	2.80	2.61	2.85	2.58	2.98	2.74	3.08	2.66
	26	2.37	2.25	2.51	2.38	2.67	2.54	2.74	2.59	2.80	2.57	2.93	2.73	3.04	2.65
	28	2.31	2.19	2.44	2.32	2.61	2.48	2.69	2.56	2.75	2.55	2.89	2.69	3.00	2.64
1.6	30	2.24	2.13	2.38	2.26	2.56	2.43	2.64	2.51	2.70	2.53	2.84	2.68	2.95	2.63
10.0	32	2.18	2.07	2.31	2.20	2.50	2.37	2.58	2.46	2.64	2.51	2.79	2.65	2.90	2.61
12.2 (m ³ /min)	34	2.11	2.00	2.25	2.13	2.44	2.32	2.53	2.40	2.59	2.46	2.74	2.60	2.85	2.60
(111711111)	35	2.08	1.97	2.21	2.10	2.41	2.29	2.50	2.38	2.56	2.43	2.71	2.58	2.83	2.59
	36	2.04	1.94	2.18	2.07	2.38	2.26	2.47	2.35	2.53	2.40	2.69	2.55	2.80	2.59
	38	1.97	1.87	2.11	2.00	2.32	2.20	2.41	2.29	2.47	2.35	2.63	2.50	2.75	2.57
	39	1.94	1.84	2.07	1.97	2.28	2.17	2.38	2.26	2.44	2.32	2.61	2.48	2.72	2.57
	40	1.90	1.81	2.03	1.93	2.25	2.14	2.35	2.23	2.41	2.29	2.58	2.45	2.70	2.56
	41	1.86	1.77	2.00	1.90	2.22	2.11	2.32	2.20	2.38	2.26	2.55	2.42	2.67	2.54
	42	1.83	1.74	1.96	1.86	2.19	2.08	2.29	2.18	2.35	2.23	2.52	2.40	2.64	2.51
	43	1.79	1.70	1.92	1.83	2.15	2.04	2.26	2.15	2.32	2.20	2.49	2.37	2.61	2.48
	44	1.75	1.67	1.88	1.79	2.12	2.01	2.23	2.12	2.28	2.17	2.46	2.34	2.58	2.46
	45	1.71	1.63	1.84	1.75	2.08	1.98	2.19	2.08	2.25	2.14	2.43	2.31	2.56	2.43
	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	2.40

Air flow	Outdoor air temperature		Indoor air temperature									
	°CWB	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB						
	-20	1.70	1.66	1.60	1.57	1.52						
	-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						
10.0	0	2.53	2.49	2.45	2.42	2.38						
12.0	5	3.22	3.19	3.17	3.10	3.06						
(m /mn)	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						

Model SRK35ZSX-W,	-WB, -WT	
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Cooling mode

(kW)

Outdoor Indoor air temperature															
A := fla	air	21°C	CDB	23°0	CDB	26°0	CDB	27°0	CDB	28°0	CDB	31°C	CDB	33°C	CDB
AIF NOW	temperature	14°C	CWB	16°C	CWB	18°C	CWB	19°C	WB	20°C	CWB	22°C	CWB	24°C	CWB
	CDB	TC	SHC												
	10	3.94	3.48	4.13	3.42	4.28	3.60	4.35	3.56	4.43	3.52	4.56	3.66	4.68	3.57
	12	3.87	3.45	4.06	3.39	4.22	3.58	4.29	3.54	4.37	3.50	4.51	3.65	4.63	3.56
	14	3.80	3.41	3.99	3.36	4.16	3.55	4.24	3.51	4.31	3.48	4.46	3.63	4.59	3.54
	16	3.72	3.38	3.91	3.33	4.09	3.52	4.18	3.49	4.25	3.45	4.40	3.61	4.54	3.53
	18	3.65	3.34	3.84	3.30	4.03	3.49	4.11	3.46	4.19	3.43	4.35	3.59	4.49	3.51
	20	3.57	3.31	3.76	3.26	3.96	3.47	4.05	3.44	4.13	3.40	4.29	3.57	4.43	3.49
	22	3.49	3.27	3.68	3.23	3.89	3.44	3.98	3.41	4.06	3.38	4.23	3.55	4.38	3.48
	24	3.40	3.22	3.59	3.20	3.81	3.41	3.91	3.39	3.99	3.35	4.17	3.53	4.32	3.46
	26	3.32	3.15	3.51	3.16	3.74	3.38	3.84	3.36	3.92	3.33	4.11	3.51	4.26	3.44
	28	3.23	3.07	3.42	3.12	3.66	3.35	3.77	3.33	3.85	3.30	4.04	3.49	4.20	3.42
ні	30	3.14	2.98	3.33	3.08	3.58	3.32	3.70	3.30	3.78	3.28	3.98	3.47	4.13	3.40
10.1	32	3.05	2.90	3.24	3.04	3.50	3.29	3.62	3.28	3.70	3.25	3.91	3.45	4.06	3.38
13.1	34	2.95	2.81	3.14	2.99	3.41	3.24	3.54	3.25	3.62	3.22	3.84	3.42	4.00	3.36
(m³/min)	35	2.91	2.76	3.10	2.94	3.37	3.20	3.50	3.23	3.58	3.21	3.80	3.41	3.96	3.35
	36	2.86	2.72	3.05	2.90	3.33	3.16	3.46	3.22	3.54	3.19	3.76	3.40	3.92	3.34
	38	2.76	2.62	2.95	2.80	3.24	3.08	3.38	3.19	3.46	3.16	3.69	3.38	3.85	3.32
	39	2.71	2.57	2.90	2.75	3.20	3.04	3.33	3.17	3.42	3.15	3.65	3.36	3.81	3.31
	40	2.66	2.66	2.61	2.48	2.89	2.74	3.29	3.13	3.37	3.13	3.61	3.35	3.78	3.30
	41	2.61	2.61	2.56	2.43	2.85	2.70	3.25	3.09	3.33	3.12	3.57	3.34	3.74	3.29
	42	2.56	2.56	2.51	2.39	2.80	2.66	3.21	3.05	3.29	3.10	3.53	3.33	3.70	3.27
	43	2.51	2.51	2.47	2.34	2.76	2.62	3.16	3.00	3.24	3.08	3.49	3.31	3.66	3.26
	44	2.45	2.45	2.42	2.30	2.72	2.58	3.12	2.96	3.20	3.04	3.45	3.28	3.62	3.25
	45	2.40	2.40	2.37	2.25	2.67	2.54	3.07	2.92	3.15	2.99	3.41	3.24	3.58	3.24
	46	2.35	2.35	2.32	2.20	2.63	2.50	3.03	2.88	3.11	2.95	3.36	3.20	3.54	3.23

	nearing mode (i	10)				(1.44)						
Air flow	Outdoor air temperature		Indoor air temperature									
	°CWB	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB						
	-20	2.29	2.23	2.16	2.11	2.05						
	-15	2.65	2.59	2.53	2.48	2.42						
	-10	2.99	2.94	2.90	2.83	2.77						
L.:	-5	3.24	3.20	3.13	3.10	3.05						
10.0	0	3.40	3.35	3.29	3.25	3.20						
(m ³ /m in)	5	4.33	4.28	4.26	4.17	4.11						
(11711111)	6	4.40	4.35	4.30	4.25	4.19						
	10	4.68	4.63	4.60	4.54	4.49						
i i	15	5.09	5.04	5.01	4.95	4.91						
1	20	5.47	5.42	5.40	5 34	5.29						

Heating mode (HC)

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 operation me-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)

Model SRK50ZSX-W, -WB, -WT

Cooling mode

(kW)

Outdoor Indoor air temperature															
A : fl	air	21°C	DB	23°C	DB	26°C	DB	27°C	DB	28°C	DB	31°C	DB	33°C	DB
AIF HOW	temperature	14°C	WB	16°CWB		18°CWB		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	5.63	4.44	5.90	4.37	6.11	4.53	6.22	4.47	6.32	4.41	6.51	4.55	6.69	4.42
	12	5.53	4.39	5.80	4.32	6.03	4.49	6.14	4.44	6.25	4.38	6.44	4.52	6.62	4.39
	14	5.43	4.34	5.70	4.27	5.94	4.45	6.05	4.40	6.16	4.35	6.37	4.50	6.55	4.37
	16	5.32	4.28	5.59	4.23	5.85	4.42	5.96	4.37	6.08	4.32	6.29	4.47	6.48	4.35
	18	5.21	4.23	5.48	4.17	5.75	4.38	5.88	4.33	5.99	4.28	6.21	4.44	6.41	4.32
	20	5.10	4.17	5.37	4.12	5.65	4.33	5.78	4.29	5.90	4.24	6.13	4.41	6.33	4.29
	22	4.98	4.12	5.25	4.07	5.55	4.29	5.69	4.25	5.80	4.20	6.05	4.38	6.25	4.27
	24	4.86	4.06	5.14	4.02	5.45	4.24	5.59	4.21	5.71	4.17	5.96	4.35	6.17	4.24
	26	4.74	4.00	5.01	3.96	5.34	4.20	5.49	4.17	5.61	4.13	5.87	4.31	6.08	4.21
	28	4.61	3.94	4.89	3.90	5.23	4.15	5.39	4.13	5.50	4.09	5.78	4.28	5.99	4.18
ы;	30	4.49	3.88	4.76	3.84	5.11	4.11	5.28	4.09	5.40	4.05	5.68	4.25	5.90	4.16
1/1.3	32	4.35	3.82	4.63	3.79	5.00	4.05	5.17	4.04	5.29	4.01	5.58	4.21	5.81	4.12
(m ³ /min)	34	4.22	3.75	4.49	3.73	4.88	4.00	5.06	3.99	5.18	3.94	5.48	4.17	5.71	4.08
(111711111)	35	4.15	3.72	4.42	3.70	4.82	3.97	5.00	3.96	5.12	3.92	5.43	4.15	5.66	4.07
	36	4.08	3.68	4.35	3.67	4.76	3.94	4.94	3.94	5.06	3.90	5.37	4.13	5.61	4.05
	38	3.94	3.62	4.21	3.60	4.63	3.89	4.82	3.89	4.94	3.86	5.27	4.10	5.50	4.02
	39	3.87	3.59	4.14	3.57	4.57	3.86	4.76	3.87	4.88	3.83	5.21	4.08	5.45	4.00
	40	3.80	3.56	4.07	3.54	4.50	3.84	4.70	3.84	4.82	3.81	5.16	4.06	5.39	3.99
	41	3.73	3.52	3.99	3.51	4.44	3.81	4.64	3.82	4.76	3.79	5.10	4.04	5.34	3.97
	42	3.65	3.49	3.92	3.48	4.37	3.79	4.58	3.80	4.70	3.77	5.04	4.02	5.28	3.95
	43	3.58	3.46	3.84	3.44	4.30	3.76	4.52	3.77	4.63	3.74	4.98	4.00	5.23	3.93
	44	3.51	3.42	3.77	3.41	4.24	3.73	4.45	3.75	4.57	3.72	4.93	3.98	5.17	3.92
	45	3.43	3.39	3.69	3.38	4.17	3.71	4.39	3.72	4.50	3.70	4.87	3.96	5.11	3.90
	46	3.35	3.35	3.61	3.35	4.10	3.68	4.32	3.70	4.44	3.67	4.81	3.94	5.05	3.88

1	Heating mode (H	IC)				(kW)						
Air flow	Outdoor air temperature		Indoor air temperature									
	°CWB	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB						
	-20	3.19	3.11	3.01	2.94	2.85						
	-15	3.69	3.61	3.53	3.45	3.38						
	-10	4.18	4.10	4.05	3.95	3.86						
1.6	-5	4.52	4.46	4.37	4.32	4.25						
17.0	0	4.74	4.67	4.59	4.54	4.47						
(m ³ /min)	5	6.04	5.97	5.94	5.82	5.74						
((() /(())))	6	6.14	6.07	6.00	5.92	5.85						
	10	6.52	6.46	6.42	6.34	6.27						
	15	7.10	7.04	6.99	6.91	6.85						
	20	7.63	7.57	7.53	7.45	7.39						

Model	SRK60)ZS2	X-W	, -W	В, -	WT				Cooling	mode				(kW
	Outdoor						Indo	or air t	empera	ature					
A:= 41=	air	21°0	CDB	23°0	CDB	26°0	26°CDB		CDB	28°0	CDB	31°(CDB	33°0	CDB
AIF HOW	temperature	14°C	CWB	16°C	CWB	18°C	CWB	19°C	CWB	20°C	CWB	22°C	CWB	24°C	CWB
	°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
	10	6.87	5.31	7.19	5.22	7.46	5.39	7.58	5.32	7.72	5.25	7.94	5.40	8.16	5.22
	12	6.75	5.24	7.07	5.16	7.35	5.35	7.48	5.28	7.62	5.21	7.86	5.37	8.08	5.20
	14	6.62	5.17	6.95	5.09	7.24	5.30	7.38	5.24	7.52	5.17	7.77	5.33	8.00	5.17
	16	6.49	5.11	6.82	5.03	7.13	5.25	7.28	5.19	7.42	5.13	7.68	5.29	7.91	5.14
	18	6.36	5.04	6.69	4.97	7.02	5.20	7.17	5.15	7.31	5.09	7.58	5.26	7.82	5.11
	20	6.22	4.97	6.55	4.90	6.89	5.15	7.06	5.10	7.20	5.04	7.48	5.22	7.73	5.08
	22	6.08	4.90	6.41	4.84	6.77	5.09	6.94	5.04	7.08	4.99	7.38	5.18	7.63	5.05
	24	5.93	4.83	6.27	4.77	6.64	5.03	6.82	5.00	6.96	4.94	7.27	5.15	7.53	5.02
	26	5.78	4.76	6.12	4.71	6.51	4.98	6.70	4.95	6.84	4.89	7.16	5.11	7.42	4.97
	28	5.63	4.68	5.96	4.64	6.38	4.92	6.57	4.90	6.71	4.84	7.05	5.06	7.31	4.94
1.6	30	5.47	4.60	5.81	4.57	6.24	4.86	6.44	4.84	6.58	4.80	6.93	5.01	7.20	4.90
10.0	32	5.31	4.52	5.65	4.49	6.10	4.80	6.31	4.79	6.45	4.74	6.81	4.97	7.08	4.86
10.3 (m ³ (min)	34	5.15	4.45	5.48	4.41	5.95	4.74	6.17	4.73	6.31	4.68	6.68	4.93	6.96	4.82
(m /mn)	35	5.07	4.41	5.40	4.38	5.88	4.71	6.10	4.70	6.24	4.66	6.62	4.91	6.90	4.80
	36	4.98	4.37	5.31	4.34	5.80	4.68	6.03	4.67	6.17	4.63	6.56	4.88	6.84	4.78
	38	4.81	4.29	5.14	4.27	5.65	4.61	5.89	4.61	6.03	4.58	6.42	4.84	6.71	4.74
	39	4.72	4.25	5.05	4.23	5.57	4.58	5.81	4.59	5.95	4.55	6.36	4.81	6.65	4.69
	40	4.64	4.20	4.96	4.19	5.49	4.55	5.74	4.56	5.88	4.52	6.29	4.79	6.58	4.67
	41	4.55	4.16	4.87	4.15	5.41	4.52	5.66	4.53	5.80	4.49	6.22	4.74	6.51	4.65
	42	4.46	4.12	4.78	4.11	5.33	4.48	5.59	4.50	5.73	4.46	6.15	4.72	6.45	4.63
	43	4.37	4.08	4.69	4.06	5.25	4.45	5.51	4.47	5.65	4.43	6.08	4.69	6.38	4.61
	44	4.28	4.04	4.60	4.03	5.17	4.41	5.43	4.44	5.57	4.41	6.01	4.67	6.31	4.59
	45	4.13	3.94	4.44	3.93	5.02	4.32	5.28	4.34	5.42	4.31	5.86	4.58	6.15	4.50
	46	3.85	3.72	4.15	3.71	4.71	4.09	4.96	4.11	5.09	4.08	5.52	4.35	5.80	4.27

I	Heating mode (HC) (kW)											
Air flow	Outdoor air temperature		Indoor air temperature									
	°CWB	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB						
	-20	3.61	3.52	3.41	3.33	3.23						
	-15	4.18	4.09	4.00	3.92	3.83						
	-10	4.73	4.65	4.59	4.47	4.38						
ы;	-5	5.13	5.05	4.95	4.90	4.82						
17.0	0	5.38	5.30	5.20	5.14	5.07						
(m ³ /min)	5	6.85	6.77	6.73	6.60	6.51						
(111 /11111)	6	6.96	6.88	6.80	6.71	6.63						
	10	7.39	7.32	7.28	7.18	7.11						
	15	8.05	7.98	7.92	7.83	7.76						
	20	8.65	8.58	8.54	8.44	8.37						

 Notes(1) These data show average statuses.
 0.34
 0.34
 0.34

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

 (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)

RLF012A202D/F

Model SRK20,25,35,50,60ZSX SRK20,25,35,50,60ZSXA R32/R410A REFRIGERANT USED

8. APPLICATION DATA

(1) Installation of indoor unit

This installation manual deals with an indoor unit installation only. For an outdoor unit installation, refer to page 56.
 This unit is designed for R32 or R410A. See a label on the outdoor unit to check refrigerant information.

SAFETY PRECAUTIONS

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

Ð

(Om

1 pc

(7) Air-cleaning filters

5 pcs. (8) Insulation (#486 50 X 100 t3)

(3) Remote control holder

(4) Tapping screws (for installation board ø4 X 25 mm)

- Before installation, read the "SAFETY PRECAUTIONS" carefully and strictly follow it during the installation. If unusual noise can be heard during the test run, consult the dealer.
 The precautionary items mentioned below are distinguished into two levels, (AWARNING) and (ACAUTION)
 Indicates a potentially hazardous situation which, if not avoided, can result in personal in essure 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.
- 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-ing in burst reareanal intru- Be sure to use only for residential purpose.
 If this unit is installed in inferior environment such as machine shop, vehicle (like ship), warehouse, etc it can malfunction etc., it can installation installation must be carried out by the qualified installer completely in accor-dance with the installation manual. Installation by non qualified person or incorrect installation can cause serious troubles such as water leak, electric shock, fire and personal injury. ing in burst or personal injury. In the event of refrigerant leakage during installation, be sure to ventilate the In the event or 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. Be sure to wear protective goggles and gloves while performing installation work. Improper safety measures can result in personal injury.
 Use the original accessories and the specified components for the installation. Using parts other than those prescribed may cause water leak, electric shock, fire and personal injury.
 Do not install the unit near the location where leakage of flammable gases can occur. If leaked gases accumulate around the unit, it can cause fire resulting in property damage and per-orable. Make sure that earth leakage breaker and circuit breaker of appropriate ca-Practities are installed. Circuit breaker should be able to disconnect all poles under over current. Absence of appropriate breakers can cause electric shock, personal injury or property damage. Be sure to switch off the power source in the event of installation, maintesonal iniur Sonai injury. When installing the unit in small rooms, make sure that refrigerant density does not exceed the limit (Reference: ISO5149) in the event of leakage. If refrigerant density exceeds the limit, consult the dealer and install the ventilation system. Be sure to switch off the power source in the event of installation, mainte-nance or service. If the power source is not switched off, there is a risk of electric shock, unit failure or personal injury. Be sure to tighten the cables securely in terminal block and relieve the ca-bles properly to prevent overloading the terminal blocks. Loose connections or cable mountings can cause anomalous heat production or fire. Do not process, splice or modify the power cable, or share the socket with other power cable, or power plugs. Otherwise lack of oxygen can occur resulting in serious accident. Install the unit in a location where unit will remain stable, horizontal and free Install the unit in a location where unit will remain stable, norizontal and free of any vibration transmission. Unsuitable installation location can cause the unit to fall resulting in material damage and personal injury. Do not run the unit with removed panels or protections. Touching rotating equipments, hot surfaces or high voltage parts can cause personal injury due to entrapment, burn or electric shock. Improper power cable or power plug can cause fire or electric shock due to poor connection, insuf-ficient insulation or over-current. This unit is designed specifically for R32 or R410A. This unit is designed specifically for K32 or K410A.
 Using any other refrigerant can cause unit failure and personal injury.
 Do not vent R32 or R410A into atmosphere.
 R32 is a fluorinated greenhouse gas with a Global Warming Potential (GWP) = 675.
 R410A is a fluorinated greenhouse gas with a Global Warming Potential (GWP) = 2088.
 Make sure that no air enters the refrigerant circuit when the unit is installed 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 The state to characteristic property so that they do not four any internation component of the unit. If cables touch any internal component, it can cause overheating and fire. Be sure to install service cover properly. Improper installation can cause electric shock or fire due to intrusion of dust or water. Be sure to use the prescribed power and connecting cables for electrical work. Using improper cables can cause electric leak or fire. Make sufe that no air enters the reingerant circuit when the time is instance and removed. If air enters the refrigerant circuit, the pressure in the refrigerant circuit will become too high, which can cause burst and personal injury. Be sure to use the prescribed pipes, flare nuts and tools for R32 or R410A. Using existing parts (for R22 or R407C) can cause refrigerant circuit burst resulting in unit failure and excent burst of the resulting in unit failure and 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. personal iniury Be sure to connect both liquid and gas connecting pipes properly before op-Do not open the liquid and gas service valves before completing piping work, Improper connection can cause intrusion of dust or water resulting in electric shock or fire and evacuation. If the compressor is operated when connecting pipes are not connected and service valves are open, air can be sucked into the refrigerant circuit which can cause anomalous high pressure resulting in all can be sucked into the temperature or one with our case another to the sucket and the sucket and the temperature of the sucket and the su 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 care inherities. Do not install the unit in the locations where: There are heat sources nearby. Inere are heat sources nearby.
 Unit is directly exposed to rain or sunlight.
 There is any obstacle which can prevent smooth air circulation from inlet and outlet side of the unit.
 Unit is directly exposed to oil mist and steam such as kitchen.
 Chemical substances like ammonia (organic fertilizer), calcium chloride (snow melting agent) and
 acid (sulfurous acid etc.), which can harm the unit, will generate or accumulate.
 Drain water can not be discharged properly.
 TV set or radio receiver is placed within 1 m.
 Height above sea level is more than 1000 m.
 It can cause performance degradation, corrosion and damage of components, unit malfunction and fire. can inhabit. Insects and small animals can enter the electrical parts and cause damage resulting in fire or per-sonal injury. Instruct the user to keep the surroundings clean. If the outdoor unit is installed at height, make sure that there is enough space If the outdoor unit is installed at height, make sure that there is enough space for installation, maintenance and service.
 Insufficient space can result in personal injury due to falling from the height.
 Do not install the unit near the location where neighbours are bothered by noise or air generating from the unit.
 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 parls.
 Do not install the unit close to the equipments that generate electromagnetic waves and/or high-harmonic waves. 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. Do not but any fall causing property damage or personal injury. Do not touch the aluminum fin of the outdoor unit. Aluminium fin temperature is high during heating operation. Touching fin can cause burn. Do not touch any refrigerant pipe with your hands when the system is in operation. During operation the refrigerant pipes become extremely hot or extremely cold depending on the op-erating condition. Touching pipes can cause personal injury like burn (hot/cold). 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 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. function or cause jamming. **1. ACCESSORIES AND TOOLS** Standard accessories (supplied with indoor unit) Locally procured parts Tools for installation Work (a) Sleeve (1 pc.) Plus headed driver Pipe cutter 41 mod 24 1 pc. (5) Wood screws (for remote control holder ø3.5 X 16 mm) 8000 2 pcs (1) Installation board Hole core drill (65mm in diameter) (b) Sealing plate (1 pc.) Knife (c) Inclination plate (1 pc.) Wrench key (Hexagon) [4mm] (6) Batteries [R03 (AAA, Micro) 1.5 V] # 1 pc. (2) Remote control 2 pcs.
 - (d) Putty Tape measure Flaring tool set* (e) Connecting cable Gas leak detecto Torque wrench (14.0-62.0 N·m (1.4-6.2 kgf·m)) Gas leak det Pipe bender (f) Drain hose (extension hose) (g) Piping cover (for insulation of connection piping) Plier Flare adjustment gauge Designed specifically for R32 or R410A (h) Clamp and screw (for finishing work) (i) Electrical tape

2 pcs

1 pc







(2) Installation of outoor unit

RWC012A063B

Model SRC20,25,35,40,50,60ZSX-W SRC20,25,35ZSX-WA R32 REFRIGERANT USED

• This installation manual deals with an outdoor unit installation only. For an indoor unit installation, refer to page 52.

SAFETY PRECAUTIONS

- Be sure to confirm no operation problem on the equipment after completing the installation. If unusual noise can be heard during the test run, consult the dealer.
 Be sure to explain the operating methods as well as the maintenance methods of this equipment to the user annual.
 Be sure to explain the operating methods as well as the maintenance methods of this equipment to the user annual.
 Be sure to explain the operating methods as well as the maintenance methods of this equipment to the user annual.
 Be sure to explain the operating methods as well as the maintenance methods of this equipment to the user annual.
 Be sure to explain the operating methods as well as the maintenance methods of this equipment to the user annual.
 Be sure to keep the installation manual together with user's manual at a place where it is easily accessible to the user annual.
 Be sure to keep the installation manual together with user's manual at a place where it is easily accessible to the user annual.
 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. I purport damage.

- **/ WARNING** 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-ing in burst or personal injury. In the event of refrigerant leakage during installation, be sure to ventilate the working area property. Be sure to use only for residential purpose.
 If this unit is installed in inferior environment such as machine shop, vehicle (like ship), warehouse etc., it can malfunction. etc., it can malfunction.
 Installation must be carried out by the qualified installer completely in accordance with the installation manual. Installation by non qualified person or incorrect installation can cause serious troubles such as water leak, electric shock, fire and personal injury.
 Be sure to wear protective goggles and gloves while performing installation work. Improper safety measures can result in personal injury.
 Use the original accessories and the specified components for the installation. Using parts other than those prescribed may cause water leak, electric shock, fire and personal injury.
 Do not install the unit near the location where leakage of flammable gases can occur. If leaked gases accumulate around the unit, it can cause fire resulting in property damage and personal injury. 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-Directile are installed. Circuit breaker should be able to disconnect all poles under over current. Absence of appropriate car sonal injury sonal injuy. 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. Otherwise lack of oxygen can occur resulting in serious accident. Install the unit in a location where unit will remain stable, horizontal and free breakers can cause electric shock, personal injury or property damage. Be sure to switch off the power source in the event of installation, mainte-Be sure to switch off the power source in the event of installation, mainte-nance or service. If the power source is not switched off, there is a risk of electric shock, unit failure or personal injury. Be sure to tighten the cables securely in terminal block and relieve the ca-bles properly to prevent overloading the terminal blocks. Loose connections or cable mountings can cause anomalous heat production or fire. Do not process, splice or modify the power cable, or share the socket with of any vibration transmission. Unsuitable installation location can cause the unit to fall resulting in material damage and personal injury. Do not run the unit with removed panels or protections. Touching rotating equipments, hot surfaces or high voltage parts can cause personal injury due to entrapment, burn or electric shock. other power plugs. Improper power cable or power plug can cause fire or electric shock due to poor connection, insuf-ficient insulation or over-current. Do not perform any change in protective device or its setup condition yourself. entrapment, ourn or electric snock.
 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 fluorinated greenhouse gas with a Global Warming Potential(GWP)=675.
 Make sure that no air enters the refrigerant circuit when the unit is installed
 and compared. Do not perform any change in protective device or its setup condition yourself. Changing protective device specifications can cause electric shock, fire or burst.
 Be sure to clamp the cables properly so that they do not touch any internal component of the unit.
 If cables touch any internal component, it can cause overheating and fire.
 Be sure to install service cover properly.
 Improper installation can cause electric shock or fire due to intrusion of dust or water.
 Be sure to use the prescribed power and connecting cables for electrical work.
 Using improper cables can cause electric leak or fire.
 This appliance must be connected to main power source by means of a circuit breaker or switch with a contact separation of at least 3mm.
 Improper electrical work can cause unit failure or personal injury.
 When plugging this unit, a plug conforming to the standard IEC60884-1 must be used. and removed. If air enters the refrigerant circuit, the pressure in the refrigerant circuit will become too high, which • an cause burst and personal injury. Be sure to use the prescribed pipes, flare nuts and tools for R32 or R410A. Using existing parts (for R22 or R407C) can cause refrigerant circuit burst resulting in unit failure and personal injury. Be sure to connect both liquid and gas connecting pipes properly before op-Be sure to connect both liquid and gas connecting pipes properly before op-erating the compressor. Do not open the liquid and gas operation valves before completing piping • work, and evacuation. If the compressor is operated when connecting pipes are not connected and operation valves are open, air can be sucked into the refrigerant circuit which can cause anomalous high pressure result • ing in burst or personal injury. Be sure to tighten the flare nuts to specified torque using the torque wrench. used Using improper plug can cause electric shock or fire. Be sure to connect the power source cable with power source properly. Improper connection can cause intrusion of dust or water resulting in electric shock or fire. Tightening flare nuts with excess torgue 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 20kg, it must be carried by two or more persons. Do not carry the unit by the plastic straps. Always use the carry handle. Do not install the unit in the locations where: There are heat sources nearby. Unit is directly exposed to rain or sunlight. Unit is directly exposed to rain or sunlight.
 There is any obstacle which can prevent smooth air circulation from inlet and outlet side of the unit.
 Unit is directly exposed to oil mist and steam such as kitchen.
 Chemical substances like ammonia (organic fertilizer), calcium chloride (snow melting agent) and acid (sulfurous acid etc.), which can harm the unit, will generate or accumulate.
 Drain water can not be discharged properly.
 TV set or radio receiver is placed within 1m.
 Height above sea level is more than 1000m.
 It can cause performance degradation, corrosion and damage of components, unit malfunction and fire.
 Dispose of all packing materials properly.
 Packing materials contain nails and wood which can cause personal injury.
 Keep the polybag away from children to avoid the risk of suffocation.
 De not out anything on the outdoor unit. Do not install the outdoor unit in a location where insects and small animals can inhabit. Insects and small animals can enter the electrical parts and cause damage resulting in fire or personal injury. Instruct the user to keep the surroundings clean. If the outdoor unit is installed at height, make sure that there is enough space for installation, maintenance and service. Insufficient space can result in personal injury due to falling from the height. Do not install the unit near the location where neighbours are bothered by The second state of the se 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. Do not install the unit close to the equipments that generate electromagnetic waves and/or high-harmonic waves. Equipment such as inverters, standby generators, medical high frequency equipments and telecom-Autimitant interperature is mign during neuring operation. Houding in call cause 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. 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.

1. ACCESSORIES AND TOOLS

Standard accessories (Supplied with outdoor unit)	Q'ty	Locally procured parts		Tools for installation work	
(1) Drain grommet	4	(a) Anchor bolt(M10-M12)×4 pcs.	Plus headed driver	Spanner wrench	Vacuum pump*
(1) Dianigrammat ((b) Putty	Knife	Torque wrench [14.0-62.0N•m(1.4-6.2kgf•m)]	Gauge manifold *
(2) Drain elbow	1	(c) Electrical tape	Saw	Wrench key (Hexagon) [4mm]	Charge hose *
*Not included for SRC20, 25, or 35ZS	X-WA.	(d) Connecting pipe	Tene	Elevine tool oot *	Vacuum pump adapter*
		(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

(mm)

280 180

Open 250 Open

75 Open Open

2. OUTDOOR UNIT INSTALLATION

Note as a unit designed for R32

- Note as a unit designed Tor NS2
 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 change, 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 person carrying the left hand side must hold the handle pro-vided 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 enough space for service and maintenance of 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 sulight.
 Unit is not directly exposed to oil 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 at-No TV set or radio receiver is placed within 1m.
 Unit is not affected by electromagnetic waves and/or high-harmonic waves generated by other equip-
- ments.
- 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

Over 500mn

the outlet gets perpendicular to the wind direc-tion.

(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



3. Installation space

• There must be 1 meter 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. all height on the outlet side should

Size

Example installation

L1

L2

L3

L4

Ι Π III IV

Open 280 100

100 80 80 80

250

	Service
	L4
Outlet J	L1
77777777777	*

NOTE

7

Ţ

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

When more than one unit are installed in parallel directions, provide sufficient inlet space so that short-circuiting 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 acces-sories if condensed water needs to be drained out.

 Install drain elbow and drain grommet.
 Seal around the drain elbow and drain grommet with putty or adequate caulking material. <SRC20/25/35/40/50/607SX-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.

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.)





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 15mm.





▲ CAUTION

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 2. Removing terminal cover ervice cover downwards and remove it. and take out terminal cover v. Slide s Terminal cover

Wind direction Wind

4. CONNECTING PIPING WORK

1. Restrictions on unit installation

Abide by the following rest Improper installation can of	trictions on unit inst ause compressor f	allation. ailure or perform	nan	nce degradation.
	Dimensional r	estrictions	'	
	Model SRC20/25/35	Model SRC40/50/60	1	<u> </u>
Connecting pipe length(L)	25m or less	30m or less	н	
Elevation difference between indoor and outdoor units(H)*	15m or less	20m or less		

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

2. Preparation of connecting pipe

 Selecting connecting pipe elect connecting pipe according to the following table. 				
	Model SRC20/25/35	Model SRC40/50/60		
Gas nine	ø9.52	ø12 7		

I			
ĺ	Liquid pipe	ø6.35	ø6.35
ļ	Pine wall thickness	must be greater than	or equal to 0.8 n

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

Se

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

2.2. 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.

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

Haring pipe
 Takaring pipe
 Take out flare nuts from the service valves of outdoor unit and engage them onto connecting pipes.
 Flare the pipes according to table and figure shown below. Flare dimensions for R32 are different from those for conventional refrigerant. Although it is recommended to use the flaring tools designed specifically for R32 or R410A, conventional flaring tools can also be used by adjusting the measurement of protrusion B with a flare adjustment gauge.

A	A Conner nine I III	Connorning	Rigid (clutch) type							
	outer diameter	A_0.4	A_0.4		4		outer diameter	R32 or R410A	Conventional	
	ø6.35	9.1		ø6.35						
	ø9.52	13.2		ø9.52	0-0.5	1.0-1.5				
1.1.1	ø12.7	16.6		ø12.7						

. Connecting pipes

(1) Connect pipes on both liquid and gas sides.

(2) fighten huts to specified torque shown in the table below.			
Service valve size (mm) ø6.35 (1/4")		Tightening torque (N·m)	
		14-18	
	ø9.52 (3/8")	34-42	
ſ	ø12.7 (1/2")	49-61	



≜ CAUTION

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

5. UTILIZATION OF EXISTING PIPE



4. Evacuation

(1) Connect vacuum pump to gauge manifold. Connect charge hose of gauge manifold to service port of outdoor unit.

- or outdoor unit. (2) Run the vacuum pump for at least one hour after the vacuum gauge shows -0.1MPa (-76cm 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 hiside 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. (4) Close the Handle Lo and stop the vacuum pump.
- wing back (5) Remove valve caps from liquid service valve and gas operation 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.
 (8) Tighten service valve caps and service port cap to the specified torque shown in the table below.

Service valve size (mm)	Service valve cap tightening torque (N·m)	Service port cap tightening torque (N·m)
ø6.35 (1/4")	20.30	
ø9.52 (3/8")	20-30	10-12
ø12.7 (1/2")	25-35	



A 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 can be calculated using the formula given below. 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 15m or shorter, charge the factory charged amount as shown in the table below.

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

	Model SRC 20/25/35	Model SRC40/50/60
The factory refrigerant charge amount(kg)	1.20	1.30
The maximum refrigerant charge amount(kg)	1.40	1.60

5.2 Charging refrigerant
(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 service 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 attached on the service cover.

▲ CAUTION

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.

- 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. DI UND POWN) 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.
 (3) 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.

- 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 indoor 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. (SRC40,50 and 60 only)

<Table of pipe size restrictions

Additional charge	volume per meter of pipe	0.054kg/m
Liquid pipe		ø9.52
Fipe Size	Gas pipe	ø12.7
Maximum one-way pipe length		10
Length covered without additional charge 5		
Additional charge a	mount (kg) = {Main pipe length (m)	- Length covered without

charge shown in the table (m) X Additional charge amount per meter of pipe shown in the table (kg/m)



Power source voltage complies with the rated voltage of air-conditioner.

Earth leakage breaker and circuit breaker are installed.			
Power cable and connecting cable are securely fixed to the terminal block.			
Both liquid and gas service valves are fully open.			

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No gas leaks from the joints of the service valves. Indoor and outdoor side pipe joints have been insulated

Drain hose (if installed) is fixed properly. Screw of the service cover is tightened properly.

(3) Safety precautions in handling air-conditioners with flammable refrigerants

	WALL TY R32 F	PE AIR-CONDITIONER EFRIGERANT USED	7
This equipment uses flammable refrigerants. If the refrigerant is leaked, together with an external ignition source, there is a possibility of ignition.	Ĩ	There is information included in the user's manual and/or installation manual.	
The user's manual should be read carefully.	Ð	A service personnel should be handing this equipment with reference to the installation manual.	

• 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.

Strict compliance of the domestic laws must be

- observed when disposing the appliance. Do not use means to accelerate the defrost operation
- 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.

A CAUTION

- rces (for example: liance or an • Be aware that refrigerants may not contain an odour. • The indoor unit shall be stored in a room that
 - The indoor unit shall be stored in a room that has a minimum area of 4.0 m².

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.

4. 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 extinguisherIf any hot work is to be conducted on the
- If any not 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.
- 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 flampable
- 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.

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 pressure-tested 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). Do not exceed the maximum working pressure of
- the cylinder, even temporarily. When the cylinders have been filled correctly j)
- 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 safelv
- 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

9. OUTLINE OF OPERATION CONTROL BY MICROCOMPUTER

(1) Operation control function by wireless remote control



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(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 room temperature (as detected by sensor), whether to go into the COOL, DRY or HEAT modes.



(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) "AUTO RESTART" is cut, auto restart is disabled. (See the diagram at right)



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

When two air-conditioners are installed in the room, use this 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) Cut 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 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 for some time.

(iii) Check that the reception buzzer sound "Peep" is emitted from the indoor unit. At completion of the setting, the indoor unit emits a buzzer sound "Peep". (If no reception sound is emitted, start the setting from the beginning again.)





(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 changing the setting of dip switch (SW2-4) on the interface kit (option) PCB if it is connected.

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

Notes (1) Default states of the jumper wire (J3) 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.

(b) Content of control

- (i) If the outdoor air temperature sensor (SRK20, 25, 35 : TH3, SRK50, 60 : TH2) detects below 5°C, the indoor unit speed is switched to 8th step.
- (ii) If the outdoor air temperature sensor (SRK20, 25, 35 : TH3, SRK50, 60 : TH2) detects higher than 7°C, the indoor unit speed is changed to the normal control speed.

(6) Heating only function

- (a) Heating only function can be enabled by disconnecting the jumper wire (J4).
- (b) Control contents

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



(7) High power operation

Pressing the HI/ECO 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/ECO 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/ECO 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.
 - ⁽⁵⁾ When the SILENT botton is pressed.
 - (6) 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.



Outdoor air temperature (°C)

(8) Economy operation

(a) Pressing the HI/ECO button initiates a soft operation with the power suppressed in order to avoid an excessive cooling or heating.
(b) The remote control *eop* displays.

(c) The set temperature will be adjusted according to the amount of movement made by the person(s) the motion sensor has detected. MODE:AUTO mode operation



MODE:COOL/HEAT/DRY mode operation

Heat Source & Movement	Low	Normal	High	None
COOL/DRY				
HEAT — temperature				15°C

Low	When the extent of human
LOW	movement is low
Llaub	When the extent of human
High	movement is high
None	When there is no one in the
	100111

- The set temperature is automatically adjusted during economy operation, however, the indication on the remote control display does not change.
- When the SLEEP TIMER, OFF TIMER, and ON TIMER + OFF TIMER operation are set, the motion sensor does not adjust temperatures.
- When the "None" continues for 1 hour, the FAN SPEED is set ULo.

Notes (1) It will go into economy operation at the next time the air-conditioner runs in the following case.

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 SELF CLEAN or ALLERGEN CLEAR operation.

(2) When the following operations are set, economy operation will be canceled.

(1) When the HI/ECO button is pressed again.

2 When the operation mode is changed from DRY to FAN.

③ When the NIGHT SETBACK button is pressed.

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

(9) Air flow direction adjustment

Air flow direction can be adjusted with by AIR FLOW U/D (UP/DOWN) and L/R (LEFT/RIGHT) button on the wireless remote control.

(a) Flap

Every time when you press the AIR FLOW U/D (UP/DOWN) button the mode changes as follows



• Angle of flap from horizontal

Wireless remote control display	-7	_	Ţ	$\mathbf{\zeta}$	$\overline{\mathbf{Q}}$
COOL, DRY, FAN	Approx. 15°	Approx. 20°	Approx. 25°	Approx. 30°	Approx. 55°
HEAT	Approx. 30°	Approx. 40°	Approx. 45°	Approx. 50°	Approx. 55°

(b) Louver

Every time when you press the AIR FLOW L/R (LEFT/RIGHT) button the mode changes as follows (Louver stopped) (Swing) (Spot) (Wide) Angle of louver Wireless remote control display **Center installation** Left approx. 50° Left approx. 20° Center Right approx. 20° Right approx. 50° **Right end installation** Left approx. 50° Left approx. 45° Left approx. 30° Center Right approx. 20° Left end installation Left approx. 20° Center Right approx. 30° Right approx. 45° Right approx. 50°

(c) Swing

(i) Swing flap
 (ii) Swing louver
 Flap moves in upward and downward
 directions continuously.
 ♦ In COOL, DRY, FAN operation
 ♦ In HEAT operation





(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.

(10) 3D auto operation

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

Operation mode		Air flow selection				
Operation mode	AU	ЛО	HI MED		LO	
Cooling	Room temp. – Setting temp. >5°C	Room temp. – Setting temp. $\leq 5^{\circ}C$				
cooling	HIGH POWER	AUTO	н	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 (Fixed)		
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. $> 5^{\circ}C$		
пеашу	The control in 4) continues.	Control returns to the control in 2).	Control returns to the control in 1).		

(b) During DRY operation (including auto DRY operation)

Flap	Horizontal blowing (Fixed)	
Louver	Wide (Fixed)	

(11) Timer operation

(a) Comfort start-up (ON timer operation)

The unit starts the operation 5 to 60 minutes earlier so that the room can approach optimum temperature at ON timer.

(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

Up to 4 programs with timer operation (ON timer / OFF timer) are available for each day of the week.

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

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

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

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.

(12) Silent operation

When the silent operation is set, the unit operates by dropping the outdoor fan speed and the compressor speed.

	SRK20		SRK25		SRK35		SRK50		SRK60	
	Cooling	Heating								
Outdoor fan speed (Upper limit)	4th speed	4th speed	4th speed	4th speed	5th speed	6th speed	5th speed	5th speed	5th speed	5th speed
Compressor speed (Upper limit)	18 rps	26 rps	24 rps	28 rps	36 rps	44 rps	43 rps	48 rps	43 rps	48 rps

(13) Night setback operation

When the night setback operation is set, the heating operation starts with the setting temperature at 10° C.

(14) Air flow range setting

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-conditioner is running, press the ON/OFF button to stop.

The air flow range 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 air flow range setting display illuminates.

(iii) Setting the air flow range.

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 display is switched in the order of:







(iv) Press the ON/OFF button.

The air-conditioner's air flow range is set.

Press within 60 seconds of setting the air flow range (while the air flow range setting display illuminates).

(15) Display brightness adjustment

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.

(16) AUTO OFF operation

In order to prevent the air-conditioner from continuing to operate although the person(s) has already left the room, the air-conditioner automatically stops approximately 1 hour (or 2 hours) after the sensor judges that there is no one in the room.

- (a) Emits a warning sound, "Peep, Peep, Peep", and stops the operation automatically when there is no one in the room for setting time (Standby). When the motion sensor detects a person 12 hours after the operation was stopped, the operation resumes with the same settings. The operation does not resume even if a person is detected after 12 hours has elapsed. (The RUN light blinks slowly during standby.)
- (b) When the SLEEP TIMER, OFF TIMER and ON TIMER + OFF TIMER operation are set, the AUTO OFF functions is disabled.
- (c) The AUTO OFF function does not activate if the operation is started by the ON TIMER when there is no one at home.

(17) Wireless LAN connection function

(a) Operating conditions

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

- (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	ON	ON(HOT KEEP)*	OFF						
Outdoor fan	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.

Model Fan speed	SRK20	SRK25	SRK35	SRK50	SRK60
Auto	12-78rps	12-86rps	12-98rps	12-106rps	12-120rps
Н	12-78rps	12-86rps	12-98rps	12-106rps	12-120rps
MED	12-78rps	12-86rps	12-98rps	12-106rps	12-120rps
LO	12-42rps	12-50rps	12-66rps	12-78rps	12-90rps
ULO	12-30rps	12-30rps	12-30rps	12-38rps	12-38rps

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

(ii) Hot keep operation

During the heating operation, the indoor fan speed can be controlled based on the temperature of the indoor heat exchanger (Th2) to prevent blowing out of cold air.

Unit : °C

(c) Defrost operation

- (i) Starting conditions (Defrost operation can be started only when all of the following conditions are satisfied.)
 - After start heating operation
 When it elapsed 35 minutes. (Total compressor operation time)
 - After finish of defrost operation
 When it elapsed 35 minutes. (Total compressor operation time)
 - 3) Outdoor heat exchanger sensor (models SRK20, 25, 35 : TH2 ; models SRK50, 60 : TH1) temperature When the temperature has been -5°C or less for 3 minutes continuously.
 - 4) The difference between the outdoor air sensor temperature and the outdoor heat exchanger sensor temperature is as following.

Models SRK20, 25, 35





5) During continuous compressor operation In case satisfied all of following conditions.

• Connect compressor speed 0 rps 10 times or more.

- Satisfy 1), 2) and 3) conditions above.
- Outdoor air temperature is 3°C or less.
- (ii) Ending conditions (Operation returns to the heating cycle when either one of the following is satisfied.)
 - 1) Outdoor heat exchanger sensor (models SRK20, 25, 35 : TH2 ; models SRK50, 60 : TH1) temperature: 13°C (models SRK50, 60 : 10°C) or higher
 - 2) Continued operation time of defrost operation \rightarrow For more than 15 minutes.



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

(d) Countermeasure for excessive temperature rise

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 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 "Pip Pip Pip".

(20) Outline of cooling operation

(a) Operation of major functional components in cooling mode

	Cooling					
	Thermostat ON	Thermostat OFF	Failure			
Compressor	ON	OFF	OFF			
Indoor fan	ON	ON	OFF			
Outdoor fan	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.

Model Fan speed	SRK20	SRK25	SRK35	SRK50	SRK60
Auto	12-50rps	12-58rps	12-74rps	12-86rps	12-110rps
н	12-50rps	12-58rps	12-74rps	12-86rps	12-110rps
MED	12-34rps	12-38rps	12-54rps	12-70rps	12-90rps
LO	12-30rps	12-34rps	12-42rps	12-50rps	12-66rps
ULO	12-30rps	12-30rps	12-30rps	12-30rps	12-30rps

(21) Outline of dehumidifying (DRY) operation

(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.



Difference between set temperature and indoor air temperature

(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 in cooling operation, indoor unit can not operate in cooling, and dehumidify. In this case, the units operate in heating to rise the indoor air 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 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 selected 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 v	vireless	remote	control	(Display	()				
		18	19	20	21	22	23	24	25	26	27	28	29	30
Setting	Cooling	18	19	20	21	22	23	24	25	26	27	28	29	30
temperature	Heating	18	19	20	21	22	23	24	25	26	27	28	29	30

(23) Protective control function

(a) Dew prevention control [Cooling]

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 22 rps or higher.
- 2) Detected value of humidity is 68% (models SRK50, 60 : 60%) or higher.

(ii) Contents of operation

1) Air capacity control

	Model						
Item		SRK20, 25	SRK35				
	Upper limit of compressor's speed	RangeA: 40rps, RangeB: 24rps	RangeA: 45rps, RangeB: 24rps				
ULU	Indoor fan	4th s	peed				
	Upper limit of compressor's speed	RangeA: 40rps, RangeB: 24rps	RangeA: 45rps, RangeB: 24rps				
LO	Indoor fan	Adaptable to compressor speed					
AUTO,HI,MED	Upper limit of compressor's speed	RangeA: 40rps, RangeB: 30rps	RangeA: 45rps, RangeB: 30rps				
	Indoor fan	Adaptable to co	ompressor speed				
Note (1) Ranges A and B are as shown below.							
	Range B						



Item	Model	SRK50	SRK60	
	Upper limit of compressor's speed	Range A:50rps, Range B:50rps, Range C:24rps	Range A:50rps, Range B:50rps, Range C:24rps	
ULU	Indoor fan	Range A:Adaptable to compressor speed Range B, Range C:4th speed	Range A:Adaptable to compressor speed Range B, Range C:4th speed	
LO	Upper limit of compressor's speed	Range A:50rps, Range B:50rps, Range C:24rps	Range A:50rps, Range B:50rps, Range C:24rps	
	Indoor fan	Adaptable to compressor speed	Adaptable to compressor speed	
MED	Upper limit of compressor's speed	Range A:50rps, Range B:50rps, Range C:30rps	Range A:50rps, Range B:50rps, Range C:30rps	
	Indoor fan	Adaptable to compressor speed	Adaptable to compressor speed	
н	Upper limit of compressor's speed	Range A:70rps, Range B:50rps, Range C:30rps	Range A:80rps, Range B:50rps, Range C:30rps	
	Indoor fan	Adaptable to compressor speed	Adaptable to compressor speed	
Αυτο	Upper limit of compressor's speed	Range A:50rps, Range B:50rps, Range C:30rps	Range A:50rps, Range B:50rps, Range C:30rps	
	Indoor fan	Adaptable to compressor speed	Adaptable to compressor speed	

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



- When this control has continued for more than 30 minutes continuously, the following wind direction control is performed (except for range A of SRK50, 60).
 - 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.

2.5°C or lower

0 rps

Keep the fan speed before

frost prevention control

Depends on stop mode

(iii) Reset condition

Humidity is less than 63% (models SRK50, 60 : 55%).

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

(i) Operating conditions

Item

Indoor fan

Outdoor fan

4-way valve

- 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

Lower limit of compressor command speed

Indoor heat exchanger temperature

Notes (1) When the indoor heat exchanger temperature is in the range of $2.5-5^{\circ}$ 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.

5°C or lower

22 rps

Depends on operation mode

Depends on compressor speed

OFF

(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.

(c) Cooling overload protective control

(i) Operating conditions

When the outdoor air temperature (models SRK20, 25, 35 : TH3 ; models SRK50, 60 : TH2) has become continuously for 30 seconds at 38°C or more, or 41°C or more, or 47°C or more with the compressor running, the lower limit speed of compressor is brought up.

Model Item		SRK20, 25, 35	SRK50, 60		
Outdoor air temperature	38°C or more	41°C or more	47°C or more	41°C or more	47°C or more
Lower limit speed	25 rps	30 rps	40 rps	30 rps	40 rps



SRK50, 60





(ii) Detail of operation

- 1) The outdoor fan is stepped up by 3 speed step. [Upper limit 8 th speed.]
- The lower limit of compressor speed is set to 25 or 30 or 40rps. 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 37°C (models SRK50, 60 : 40°C).
- 2) The compressor speed is 0 rps.

(d) Cooling high pressure control

(i) Purpose

Prevents anomalous high pressure operation during cooling.

(ii) Detector

Outdoor heat exchanger sensor (models SRK20, 25, 35 : TH2 ; models SRK50, 60 : TH1).

(iii) Detail of operation

(Example) Compressor speed



Notes (1) When the outdoor heat exchanger temperature is in the range of P2-P3°C, the speed is reduced by 8 rps at each 20 seconds.

(2) When the temperature is P3 °C or higher, the compressor is stopped.
(3) 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 continued for more than 20 seconds at the same speed, it returns to the normal cooling operation.

(e) Cooling low outdoor air temperature protective control

Operating conditions (i)

When the outdoor air temperature (models SRK20, 25, 35 : TH3 ; models SRK50, 60 : TH2) is 22°C or lower continues for 20 seconds while the compressor speed is other than 0 rps.

(ii) Detail of operation

- It controls the upper and lower limit values for the compressor speed according to the following table. 1)
- It checks the outdoor temperature (models SRK20, 25, 35 : TH3 ; models SRK50, 60 : TH2) once every hour to 2) judge the operation range.





С

22

22

D

25

25



(iii) **Reset conditions**

When either of the following condition is satisfied

- The outdoor air temperature (models SRK20, 25, 35 : TH3 ; models SRK50, 60 : TH2) is D°C or higher. 1)
- 2) The compressor speed is 0 rps.

(f) Heating high pressure control

(i) Purpose

Prevents anomalous high pressure operation during heating.

(ii) Detector

Indoor heat exchanger sensor (Th2)

Detail of operation (iii)



Notes When the indoor heat exchanger temperature is in the range of C-D °C, the speed is reduced by 8 rps at each 10 seconds. When the temperature is D °C (2)

or higher continues for 1 minute, the compressor is stopped.

- 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 (3)than 20 seconds at the same speed, it returns to the normal heating operation.
- Indoor fan retains the fan speed when it enters in the high pressure control. Outdoor fan is operated in accordance with the speed. (4)

Temperature list

SRK20, 25, 35				Unit : °C
	Α	В	С	D
RPSmin < 50	44	51	53.5	60
50 ≦ RPSmin < 115	44	51	56	60
115 ≦ RPSmin < 120	44 - 42	51 - 49	56 - 54	60 - 58
120 ≦ RPSmin	42	49	54	58

SRK50, 60

SRK50, 60				Unit : °C
	Α	В	С	D
RPSmin < 50	45	52	54.5	58
50 ≦ RPSmin < 115	45	52	57	60
115 ≦ RPSmin < 120	45 - 43	52 - 50	57 - 55	60 - 58
120 ≦ RPSmin	43	50	55	58

(g) Heating overload protective control

(i) Indoor fan speed

1) Operating conditions

When the outdoor air temperature (models SRK20, 25, 35 : TH3 ; models SRK50, 60 : TH2) is 17°C or higher continues for 30 seconds while the compressor speed other than 0 rps.

2) Detail of operation

The indoor fan speed is stepped up by 1 speed step. (Upper limit 10th speed)

3) Reset conditions

The outdoor air temperature (models SRK20, 25, 35 : TH3 ; models SRK50, 60 : TH2) is lower than 16°C.

(ii) Outdoor unit side

1) Operating conditions

When the outdoor air temperature (models SRK20, 25, 35 : TH3 ; models SRK50, 60 : TH2) is 13°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 90 rps or 50 (75) 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 25 (30) rps or 35 (40) rps and even if the calculated result becomes lower than that after fuzzy calculation, the speed is kept to 25 (30) rps or 35 (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 3rd (models SRK50, 60 : 2nd) speed.



Note(1) Values in () are for the models SRK50, 60.

3) Reset conditions

The outdoor air temperature (models SRK20, 25, 35 : TH3 ; models SRK50, 60 : TH2) is lower than 11°C.

(h) Heating low outdoor temperature protective control

(i) Operating conditions

When the outdoor air temperature (models SRK20, 25, 35 : TH3 ; models SRK50, 60 : TH2) is lower than 4° C or higher continues for 30 seconds while the compressor speed is other than 0 rps

(ii) Detail of operation

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



Note(1) Values in () are for the models SRK50, 60.

(iii) Reset conditions

When either of the following condition is satisfied

- 1) The outdooe air temperature (models SRK20, 25, 35 : TH3 ; models SRK50, 60 : TH2) becomes 6°C.
- 2) The compressor 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 (models SRK20, 25, 35 : TH4 ; models SRK50, 60 : TH3) mounted on the discharge pipe.



Notes (1) When the discharge pipe temperature is in the range of 100 (105) - 115°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 95-100 (105) °C even when the compressor speed is maintained for 180 seconds when the temperature is in the range of 95-100 (105) °C, the speed is raised by 1 rps and kept at that speed for 180 seconds. This process is repeated until the command speed is reached.

(4) Lower limit speed

	Cooling	Heating
Lower limit speed	22 (25) rps	32 rps

- (5) Values in () are for the models SRK50, 60.
- 2) If the temperature of 115°C is detected by the sensor on the discharge pipe, then the compressor will stop immediately. When the discharge pipe temperature drops and 3 minutes has elapsed 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 speed is reduced.

If the mechanism is actuated when the compressor speed is less than 30 rps, the compressor is stopped immediately.

Operation starts again after 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 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⁻¹ 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 serial 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⁻¹ or under for more than 30 seconds, the compressor and fan motor are stopped.

(q) Outdoor fan control at low outdoor temperature

(i) Cooling

1) Operating conditions

When the outdoor air temperature (models SRK20, 25, 35 : TH3 ; models SRK50, 60 : TH2) 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 air temperature > 10°C	2nd speed
Outdoor air temperature ≦ 10°C	1st speed

- a) Outdoor heat exchanger temperature (models SRK20, 25, 35 : TH2 ; models SRK50, 60 : TH1) ≤ 21°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 (models SRK20, 25, 35 : TH2 ; models SRK50, 60 : TH1) ≤ 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 (models SRK20, 25, 35 : TH2; models SRK50, 60 : TH1) > 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 (models SRK20, 25, 35 : TH3 ; models SRK50, 60 : TH2) is 25°C or higher.
- b) The compressor speed is 0 rps.

(ii) Heating

1) Operating conditions

When the outdoor air temperature (models SRK20, 25, 35 : TH3 ; models SRK50, 60 : TH2) is -2°C (models SRK50, 60 : 4°C) or lower continues for 30 seconds while the compressor 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)

3) Reset conditions

When either of the following conditions is satisfied

- a) The outdoor air temperature (models SRK20, 25, 35 : TH3 ; models SRK50, 60 : TH2) is 0°C (models SRK50, 60 : 6°C) or higher.
- b) The compressor speed is 0 rps.

(r) Refrigeration cycle system protection

(i) Starting conditions

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

Operation mode	А	Compressor speed (N)	Room temperature (Th1)	Room temperature (Th1)/ Indoor heat exchanger temperature (Th2)
Cooling	5	40≦N	$10 \leq Th1 \leq 40$	Th1-4 <th2< td=""></th2<>
Heating ⁽¹⁾	8	$40 \le N (TH^{(2)} \ge 0^{\circ}C) \\ 60 \le N (TH^{(2)} < 0^{\circ}C)$	$0 \leq Th1 \leq 40$	Th2 <th1+6< td=""></th1+6<>

Notes (1) Except that the fan speed is HI in heating operation and silent mode control. (2) ***** = 3 (models SRK20, 25, 35), ***** = 2 (models SRK50, 60)

(ii) Contents of control

- 1) When the conditions of (i) above are satisfied, 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

10. MAINTENANCE DATA

(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.







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. $^{(1)}$

Indoor unit o	display panel	Wired (2) remote	Description	Cause	Display (flashing) condition
RUN light	TIMER light	control display	of trouble	oduše	Display (nashing) condition
1-time flash	ON	_	Heat exchanger sensor 1 error	 Broken heat exchanger sensor l wire, poor connector connection Indoor unit PCB is faulty 	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 disconnected.) (Not displayed during operation.)
2-time flash	ON	—	Room temperature sensor error	 Broken room temperature sensor wire, poor connector connection Indoor unit PCB is faulty 	When a room temperature sensor wire disconnection is detected while operation is stopped. (If a temperature of -45°C or lower is detected for 15 seconds, it is judged that the wire is disconnected.) (Not displayed during operation.)
3-time flash	ON		Heat exchanger sensor 2 error	 Broken heat exchanger sensor 2 wire, poor connector connection Indoor unit PCB is faulty 	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 disconnected.) (Not displayed during operation.)
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 air- conditioner operation, an indoor unit fan motor speed of 300 min ⁻¹ 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	 Broken outdoor air temp. sensor wire, poor connector connection 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. Or -55°C or lower 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	 Broken heat exchanger sensor wire, poor connector connection 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. Or -55°C or lower is detected for within 20 seconds after power ON. (The compressor is stopped.)
Keeps flashing	4-time flash	E 39	Discharge pipe sensor error	 Broken discharge pipe sensor wire, poor connector connection Outdoor unit PCB is faulty 	-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 wireCompressor 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	 Overload operation Overcharge Compressor locking 	When the compressor 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 set 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 for10 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 ⁻¹ or lower. (3 times) (The air-conditioner stops.)
ON	Keeps flashing	E 35	Cooling high pressure protecton	 Overload operation, overcharge Broken outdoor heat exchange sensor wire Service valve is closed 	When the value of the outdoor heat exchanger sensor exceeds the set value.
2-time flash	2-time flash	E 60	Rotor lock	 Defective compressor Open phase on compressor Defective outdoor unit PCB 	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	Service valve is closed.Refrigerant is insufficient	When refrigeration cycle system protective control operates.
		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.)
Stays OFF	Keeps flashing	_	Limit switch error	 Defective limit switch Defective suction panel set Defective indoor unit control PCB 	Actuation of limit switch

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.

(a) Explanation of terms

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 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.

(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 output data	
Operation mode	Fan speed mode		
	MED	Displays the reason for stopping display in the past (error code).	
Cooling	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.	
neating	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 the error display data are from.	
Temperature setting		
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	
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 control setting				
Operation mode	Fan speed mode	Temperature setting	Displayed data	
Cooling	MED	21°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.	
		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.	
	LO	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		25°C	Displays the reason for the stop (stop code) 5 times previous when the air-conditioner was stopped by protective stop control.	
Cooling		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.	
		30°C	Displays the reason for the stop (stop code) 10 times previous when the air-conditioner was stopped by protective stop control.	

Number of flashes when in							
RUN light (10's digit)	TIMER light (1's digit)	or Error coad	Error content	Cause	Occurrence conditions	Error display	Auto recovery
	OFF	0	Normal	-	—	-	—
OFF	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.	_	0
	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 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. Or-55°C lower 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. Or-55°C lower is detected for 5 seconds continuously within 20 seconds after power ON.	(3 times)	0
	9-time flash	39	Discharge pipe 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 initial detection of this anomalous temperature.	(3 times)	0
	OFF	40	Service valve (gas side) closed operation	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.	O (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 ⁻¹ 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 unit's 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 300 min ¹ 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 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. Humidity sensor is faulty.	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.	_	0
	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

(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.)



	If there is a () displayed, the error display shows the number of times that an auto recovery occurred for the same reason has
	reached the number of times in ().
	If no () is displayed, the error display shows that the trouble has occurred once.
(3) Auto recovery:	– Does not occur
	○ Auto recovery occurs.

(ii) Fan speed mode

(d) Operation mode, fan speed mode information tables

(i) Operation mode

Display pattern when in service mode	Operation mode when there is an abnormal stop	
RUN light (10's digit)		
_	AUTO	
1-time flash	DRY	
2-time flash	COOL	
3-time flash	FAN	
4-time flash	HEAT	

Display pattern when in service mode	Fan speed mode when there is an abnormal stop	
TIMER light (1's digit)		
_	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	ECO

* 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 sensor, outdoor air temperature sensor, outdoor heat exchanger sensor temperature

										U	nit: °C
TIMER light (1's digit) RUN light (10's digit) Buzzer sound		0	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
X	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 sensor	-64°C
Outdoor air temperature sensor	-64°C
Outdoor heat exchanger sensor	-64°C

(Example) Outdoor heat exchanger temperature data: "-9°C"



(ii) Discharge pipe sensor temperature

										Uı	nit: °C
TIMER light (1's digit)											
RUN light (10's digit) Buzzer sound			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 2	28	30	32	34	36	38			
	2	40	42	44	46	48	50 52 54		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 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 investigation									
Machine na	me								
Content of	complaint				ļ				
Wireless	emote contro	ol settings			Display results				
Temperature setting	Operation mode	Fan speed mode	Content of displayed d	ata	Buzzer (Yes/No.)	RUN light (Times)	TIMER light (Times)	Display content	
Temperature seams		MED	Error code on previous occasion		Duzzer (Testite.)	reervingne (rinnes)	Thillier (Thiles)		
	Cooling	HI	Poom temperature sensor, on previous occasi	02					
	Cooling		Indoor best exchanger sensor 1 on previous occasi	agazian					
21		LO	Wineless nemote control information on mark						
21		MED	Whereas remote control information on previ						
	Heating	MED	Outdoor air temperature sensor on previous o	ccasion					
		HI	Outdoor heat exchanger sensor on previous of	ccasion					
26	Certine	AUTO	Discharge pipe sensor on previous occasion						
20	Cooling	AUTO	Indoor heat exchanger sensor 2 on previous o	ndoor heat exchanger sensor 2 on previous occasion					
	MED Error code on second previous occasion								
	Cooling	HI	Room temperature sensor on second previous	occasion					
		AUTO	Indoor heat exchanger sensor 1 on second previ	ous occasion					
22		LO	Wireless remote control information on second	nd previous occasion					
	Heating	MED	Outdoor air temperature sensor on second pre	vious occasion					
	intenning	HI	Outdoor heat exchanger sensor on second pre	vious occasion					
		AUTO	Discharge pipe sensor on second previous occ	casion					
27	Cooling	AUTO	Indoor heat exchanger sensor 2 on second occ	casion					
	MED Error code on third previous occasion								
	Cooling	HI	Room temperature sensor on third previous occasion						
		AUTO	Indoor heat exchanger sensor 1 on third previous occasion						
23		LO	Wireless remote control information on third previous occasion						
	TT-stine	MED	Outdoor air temperature sensor on third previ						
	Heating	HI HI	Outdoor heat exchanger sensor on third previo	ous occasion					
		AUTO	Discharge pipe sensor on third previous occas	sion					
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						
		AUTO	Indoor heat exchanger sensor 1 on fourth prev	vious occasion					
24		LO	Wireless remote control information on four	th previous occasion					
		MED	Outdoor air temperature sensor on fourth prev	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 or	casion					
		AUTO	Indoor heat exchanger sensor 1 on fifth previo	ous occasion					
25		LO	Wireless remote control information on fifth	previous occasion					
		MED	Outdoor air temperature sensor on fifth previo	bus occasion					
	Heating	НІ	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			Ston code on previous occasion						
22	1		Stop code on second previous occasion						
23	1		Stop code on third previous occasion						
23	<u>,</u>		Stop code on fourth previous occasion						
25	1		Stop code on fifth previous occasion						
25	Cooling	LO	Stop code on sixth previous occasion						
20	-		Stop code on savanth previous occasion						
2/	-		Stop code on seventi previous occasion						
28			Stop code on eighth previous occasion						
29	-		Stop code on ninth previous occasion						
Judamant			Stop code on tenth previous occasion				I	Examinar	
Domonius								LAMINUCI	
Remarks									

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 85.)

(7) Inspection procedures corresponding to detail of trouble





SRC20–35 : 1.786Ω (U-V, V-W, U-W) or more at 20°C SRC50, 60 : 1.452Ω (U-V, V-W, U-W) or more at 20°C

Current safe stop

Overload operation, compressor lock, overcharge







Outdoor fan motor error





'20 • SRK-T-295



Humidity sensor

Humidity sensor assembly

~~~~

element Connector (CNF)

1

0 2 0

#### (8) Phenomenon observed after short-circuit, wire breakage on sensor

#### (a) Indoor unit

| Sanaar                               | Operation | Phenomenon                                                       |                                                                              |  |  |  |
|--------------------------------------|-----------|------------------------------------------------------------------|------------------------------------------------------------------------------|--|--|--|
| Selisor                              | 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 sensor | Cooling   | Freezing cycle system protection trips and stops the compressor. | Continiuous compressor operation command is not released.<br>(Anti-frosting) |  |  |  |
|                                      | Heating   | High pressure control mode (Compressor stop command)             | Hot keep (Indoor fan stop)                                                   |  |  |  |
| Lumidity concer                      | Cooling   | Refer to the table below.                                        | Refer to the table below.                                                    |  |  |  |
| Humidity sensor                      | Heating   | Normal system operation is possible.                             |                                                                              |  |  |  |

#### Humidity sensor operation

|                   | Failure mode                    | Control input circuit reading | Air-conditioning system operation      |  |  |
|-------------------|---------------------------------|-------------------------------|----------------------------------------|--|--|
| cted              | ① Disconnected wire             |                               |                                        |  |  |
| conne<br>wire     | <li>② Disconnected wire</li>    | Humidity reading is 0%        | Anti-condensation control is not done. |  |  |
| Disc              | 12 Disconnected wire            |                               |                                        |  |  |
| Short-<br>circuit | 1 and 2 are short-<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

| Sanaar                               | Operation | Phenomenon                                                                                                                      |                                                                      |  |  |  |
|--------------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|--|--|--|
| 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 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 unit's 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 that the fan motor is faulty.

#### (10) How to make sure of wireless remote control





Note (1) Check method of wireless remote control (a) Press the reset switch of the wireless remote control. (b) If all LCD are displayed after one (1) display, it is basically normal.



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 SRC20ZSX-W, 25ZSX-W, 35ZSX-W

#### Check point of outdoor unit



## Models SRC50ZSX-W, -W1, -W2 SRC60ZSX-W, -W1

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. DC 5 V 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 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 that the fan motor is faulty.

# Illustration Operating procedure Item Air inlet panel [Removing the air inlet panel] 1.Hold both sides of the air inlet panel, and then open it to about 80°. 2.Holding both sides of the air inlet 1 panel, pull the left and right sides forward at the same time to remove the panel. [Removing the filter] Air filter 1.Remove the air filter ×2. Removing the front pane 2 Air-cleaning filter 2.Remove the air-cleaning filter ×2. Bottom of unit [Removing the bottom panel] 1. Open the caps, and then remove the Bottom panel screw ×3 (circled in the illustration) underneath. 2.Pull the bottom panel downward to remove it. 3 Caution Screw • Be sure to use a fine-tipped tool Cap (such as a precision screwdriver) to open the cap. • Be careful not to damage the panel surface when opening the caps.

# **11. INDOOR UNIT DISASSEMBLY PROCEDURE**



| 6 | Removing the front panel    | Top of u                            | unit                                                                 | <ul> <li>[Removing the front panel]</li> <li>1.Remove the screw ×3 (circled in the illustration) for the front panel.</li> <li>2.Press the tab ×4 (circled in the illustration) at the top to unhook them from the base.</li> </ul> |
|---|-----------------------------|-------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |                             |                                     |                                                                      | 3.Holding both sides of the front panel,<br>pull it forward to remove it.                                                                                                                                                           |
|   | Ren                         | Right side         Earth wire screw | of unit<br>Control box screw                                         | <ul><li>1.Remove the earth wire screw ×2<br/>(circled in the illustration).</li><li>2.Remove the screw ×3 (circled in the<br/>illustration) for the control box.</li></ul>                                                          |
| Ţ | loving the control box ASSY | CNU (WH)                            | CNL (BK)<br>CNZ (RD)<br>CNX (GN)<br>CNX (GN)<br>CNY (YE)<br>CNM (BL) | <ul> <li>3.Unplug the following connector ×6</li> <li>from the circuit board.</li> <li>CNU (WH)</li> <li>CNL (BK)</li> <li>CNZ (RD)</li> <li>CNX (GN)</li> <li>CNY (YE)</li> <li>CNM (BL)</li> </ul>                                |
|   |                             |                                     |                                                                      | 4.Remove the six cables for CNU<br>(WH), CNL (BK), CNZ (RD), CNX<br>(GN), CNY (YE) and CNM (BL) from<br>the guide (circled hook-shaped parts).                                                                                      |

|   |                                    | Heat<br>exchanger<br>temperatur<br>e sensor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5.Remove the control box from the<br>unit, and then pull out the heat<br>exchanger temperature sensor ×2<br>(inside the bend cover) from the<br>holders.                                                                                                                                                                                                                                                                                                                                               |
|---|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8 | Removing the control circuit board | Circuit<br>board<br>tab<br>CNF (WH)<br>Circuit<br>board<br>tab<br>CNF (BK)<br>Circuit<br>board<br>tab<br>CNF (BK)<br>Circuit<br>tab<br>CNF (BK)<br>Circuit<br>tab<br>CNF (BK)<br>Circuit<br>tab<br>CNF (Circuit<br>tab<br>CNF (Circuit<br>tab<br>CIrcuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Circuit<br>Cir | <ul> <li>1.Unplug the following connectors ×4<br/>from the control circuit board.</li> <li>CNF (WH)</li> <li>CNG (BK)</li> <li>CNE (BK)</li> <li>G2 earth (YG)</li> <li>2.Remove the screw ×1 for the<br/>terminal cover, and then remove the<br/>terminal cover.</li> <li>3.Pull out the white, red and black<br/>wires from the terminal block.</li> <li>4.While pressing down on the circuit<br/>board tab ×3 of the control box,<br/>remove the circuit board after it is<br/>released.</li> </ul> |
| 9 | Removing the air outlet grill ASSY | Bottom of unit<br>Contraction of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <ul> <li>1.Release the tab ×2 (circled in the illustration) at the bottom of the unit, and then hold the left and right sides of the air outlet grill ASSY and pull it forward and downward.</li> <li>Caution</li> <li>If the drain hose is taped together with the pipe, remove the screw ×1 of the connector, and then remove them from the air outlet grill ASSY.</li> </ul>                                                                                                                        |

|                               |                | Right side | of unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | [Removing the fan motor ASSY]                                                                                                                                                                                                                                               |
|-------------------------------|----------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Removing the fan motor      ① | Removing the f | Fan motor  | ASSY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1.Remove the screw ×3 (circled in the illustration) for the fan motor ASSY.                                                                                                                                                                                                 |
|                               |                |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <ul> <li>2.Loosen the screw ×1 (circled in the illustration) for the fan.</li> <li>3.Pull out the fan motor ASSY horizontally to the right.</li> <li>Caution</li> <li>When pulling it out, be careful that the fan motor axle does not catch on the fan bearing.</li> </ul> |
|                               | an motor       | Left side  | Right sideImage: Arrow of the side <td>[Removing the motor case]<br/>1.Release the hook ×4 (circled in the<br/>illustration), and then remove the<br/>motor case (U).</td> | [Removing the motor case]<br>1.Release the hook ×4 (circled in the<br>illustration), and then remove the<br>motor case (U).                                                                                                                                                 |


## **12. OPTION PARTS**

- (1) Wired remote control
- (a) 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> <i>∕∆</i> WARNING                                                                                                                                                                                  |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0          | 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> MWARNING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| $\bigcirc$ | 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.                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 0          | 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<br>break-down.<br>If dew or water enters the unit, it may cause screen display anomalies.                                                                                                                                                                                                                                                                      |
| 0          | <ul> <li>When installing the unit at a hospital, telecommunication facility, etc., take measures to suppress electric noises.</li> <li>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.</li> <li>The influences transmitted from the remote control to medical or communication equipment could disrupt medical activities, video broadcasting or cause noise interference.</li> </ul> |
|            | <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.                                                                                                                                                                                                                                                                                                                                         |

|            | <b>≜</b> 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. <ul> <li>Place with high humidity where condensation occurs on the remote control</li> <li>Where the remote control gets wet</li> </ul> </li> <li>(3) Accurate room temperature may not be detected using the temperature sensor of the remote control. <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> </li> </ul> |
| $\bigcirc$ | software.<br>Do not connect other USB devices and the remote control at the<br>same time.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

# 2) Accessories & Prepare on site

### Following parts are provided.

Accessories R/C main unit, wood screw (ø3.5 x 16) 2 pcs, Quick reference

Following parts are arranged at site. Prepare them according to the respective installation procedures.

| Item name                                                                                        | Q'ty        | Remark                                                        |
|--------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------|
| Switch box<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<br>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

 $\cdot$  Insert the tip of flat head screwdriver or the like in the recess at the lower part of R/C and twist it lightly to remove. It is recommended that the tip of the screwdriver be wrapped with tape to avoid damaging the case.

Take care to protect the removed upper case from moisture or dust.

In case of embedding wiring

(When the wiring is retrieved "Backward")

① Embed the switch box and the R/C wires beforehand.

Seal the inlet hole for the R/C wiring with putty.



② When wires are passed through the bottom case, fix the bottom case at 2 places on the switch box.



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                               | ns                     |                                    | Main | Sub |  |
|---------------------------------------------|------------------------|------------------------------------|------|-----|--|
| Run/Stop, Ch<br>Change flap<br>speed operat | 0                      | 0                                  |      |     |  |
| High power o                                | peration, En           | ergy-saving operation              | 0    | 0   |  |
| Silent mode of                              | 0                      | ×                                  |      |     |  |
| Useful                                      | Individual fl          | 0                                  | ×    |     |  |
| functions                                   | Anti draft se          | 0                                  | ×    |     |  |
|                                             | Timer                  |                                    | 0    | 0   |  |
|                                             | Favorite se            | 0                                  | 0    |     |  |
|                                             | Weekly time            | 0                                  | ×    |     |  |
|                                             | Home leave             | 0                                  | ×    |     |  |
|                                             | 0                      | 0                                  |      |     |  |
|                                             | Select the language    |                                    |      |     |  |
|                                             | 0                      | ×                                  |      |     |  |
| Energy-savin                                | 0                      | ×                                  |      |     |  |
| Filter                                      | Filter sign reset      |                                    |      | 0   |  |
| User setting                                | Initial settin         | 0                                  | 0    |     |  |
|                                             | Administrator settings | Permission/<br>Prohibition setting | 0    | ×   |  |
|                                             |                        | Outdoor unit silent mode timer     | 0    | ×   |  |
|                                             |                        | Setting temp. range                | 0    | ×   |  |
|                                             |                        | 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              | iot ope | erable |  |
|---------------|----------------------------------------|-----------|-------------------------------|---------|--------|--|
| R/C operation | าร                                     |           |                               | Main    | Sub    |  |
| Service       | Service Installation Installation date |           |                               |         |        |  |
| setting       | settings                               | Compan    | y information                 | 0       | 0      |  |
|               |                                        | Test run  |                               | 0       | x      |  |
|               |                                        | Static pr | essure adjustment             | 0       | x      |  |
|               |                                        | Change    | auto-address                  | 0       | x      |  |
|               |                                        | Address   | setting of main IU            | 0       | x      |  |
|               |                                        | IU back-  | up function                   | 0       | х      |  |
|               |                                        | Motion s  | 0                             | х       |        |  |
|               | R/C function                           | Main/Su   | b of R/C                      | 0       | 0      |  |
|               | settings                               | Return a  | iir temp.                     | 0       | х      |  |
|               |                                        | R/C sen   | sor                           | 0       | ×      |  |
|               |                                        | R/C sen   | sor adjustment                | 0       | ×      |  |
|               |                                        | Operatio  | on mode                       | 0       | ×      |  |
|               |                                        | °C / °F   | 0                             | ×       |        |  |
|               |                                        | Fan spe   | 0                             | ×       |        |  |
|               |                                        | External  | 0                             | ×       |        |  |
|               |                                        | Upper/lc  | 0                             | ×       |        |  |
|               |                                        | Left/righ | 0                             | ×       |        |  |
|               |                                        | Ventilati | 0                             | х       |        |  |
|               |                                        | Auto-res  | 0                             | х       |        |  |
|               |                                        | Auto ten  | np. setting                   | 0       | х      |  |
|               | IU settings                            | Auto fan  | 0                             | х       |        |  |
|               |                                        |           | 0                             | х       |        |  |
|               | Service &                              | IU addre  | SS                            | 0       | 0      |  |
|               | Maintenance                            | Next ser  | vice date                     | 0       | ×      |  |
|               |                                        | Operatio  | on data                       | 0       | ×      |  |
|               |                                        | 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.



## PJA012D730

### (b) Model RC-E5

Read together with indoor unit's installation manual.

|                   |                                                                      | <b>∆WARNING</b>                                                                                                                                                                          |            |
|-------------------|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| ●Fa<br>ter<br>Lo  | asten the wiring to th<br>rminal.<br>pose connection or h            | e terminal securely and hold the cable securely so as not to apply unexpected stress<br>old will cause abnormal heat generation or fire.                                                 | on the     |
| •Ma<br>Ot         | ake sure the power s<br>herwise, electric sho                        | ource is turned off when electric wiring work.<br>ck, malfunction and improper running may occur.                                                                                        |            |
|                   |                                                                      |                                                                                                                                                                                          |            |
| Do                | o not install the remo                                               | te control at the following places in order to avoid malfunction.                                                                                                                        |            |
| (1)<br>(2)<br>(3) | ) Places exposed to<br>) Places near heat d<br>) High humidity place | direct sunlight       (4) Hot surface or cold surface enough to generate conde         evices       (5) Places exposed to oil mist or steam directly         es       (6) Uneven surface |            |
| Do                | o not leave the remo                                                 | e control without the upper case.                                                                                                                                                        | $\bigcirc$ |
| orc               | der to keep it away f                                                | rom water and dust.                                                                                                                                                                      | Q          |
| A                 | Accessories                                                          | Remote control, wood screw (ø3.5×16) 2 pieces                                                                                                                                            |            |
| F                 | Prepare on site                                                      | Remote control cord (2 cores) the insulated thickness in 1mm or more.                                                                                                                    |            |
|                   |                                                                      | [In case of embedding cord] Erectrical box, M4 screw (2 pieces)<br>[In case of exposing cord] Cord clamp (if needed)                                                                     |            |

### Installation procedure

- Open the cover of remote control, and remove the screw under the buttons without fail.
- 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)

5 Connect the remote control cord to the terminal block. Connect the terminal of remote control (X,Y) with the terminal of indoor unit (X,Y).

(X and Y are no polarity) Wiring route is as shown in the right diagram depending on the pulling out direction.



Sheath

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                              |

- 6 Install the upper case as before so as not to catch up the remote control cord, and tighten with the screws.
- Ø 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)
- 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.

100 - 200m ...... 0.5mm<sup>2</sup> × 2 cores

Under  $300m \cdots 0.75mm^2 \times 2$  cores

Under 400m .....1.25mm<sup>2</sup> × 2 cores

Under 500m .....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 : " @WAIT@ M" Slave remote control : " @WAIT@ 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 () (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  $\bigtriangledown$  . Indication example: "UPPER 26°C  $\lor \land$ " (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 ▲" is selected (valid during cooling, dry, fan, automatic)
  - ① Indication: " $\bigcirc$  ∨ ∧ SET UP" → "LOWER 18°C ∧"
  - ② Select the lower limit value with temperature setting button √ △. Indication example: "LOWER 24°C ∨ ∧" (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.



| initial function setting for typical using is performed automatically by the indoor unit connected, when remote                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| ol and indoor unit are connected.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| ing as they are used in a typical manner, there will be no need to change the initial settings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| u would like to change the initial setting marked " () ", set your desired setting as for the selected item.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| procedure of functional setting is shown as the following diagram.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| Inverticement         Will vary following the control.           NO TIEN CHANGE         If you change the trange of set temperature, the indication of set temperature, will not vary following the control, and keep the set temperature.           13         II/UFM         III -NID-10         X           HI-NID-10         X         Ar flow of fan becomes the two speed of Net Arei 34(1-%rfl co%refl -%refl                                                                                                                                                                      | 11   FROST PREVENTION TEMP<br>.%∢1).<br>12   FROST PREVENTION CONTINUE<br>10   DODATIN CLARKED TOTAL                                                                                                                                                                                                                                | TEMP HIGH<br>TEMP LOW<br>FAN CONTROL O<br>FAN CONTROL O                                                                                                                 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| Instruction         Will vary following the control.           No INNE         If you change the range of set temperature, the indication of set temperature will not vary following the control, and keep the set temperature.           13         I/UFAN         Hi -HID-L0         Xii           Hi-HID-L0         Xii         Air flow of fan becomes the three speed of %ai-%ail-%ail-%aif.           Hi-HID-L0         Xii         Air flow of fan becomes the two speed of %ai-%ail-%aif.           Hi-HID-L0         Xii         Air flow of fan becomes the two speed of %ai-%ail-%aif.           Hi-HID-L0         Xii         Air flow of fan becomes the two speed of %ai-%ail.           Hi-HID-L0         Xii         Air flow of fan becomes the two speed of %ai-%ail.           Hi-HID-L0         Xii         Air flow of fan becomes the two speed of %ai-%ail.           Hi-HID-L0         Xii         Air flow of fan becomes the two speed of %ai-%ail.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| Inverticement         Will vary following the control.           NO TINN CHANK         Will vary following the control.           13         II/UFM         Will vary following the control.           HI-RID-10         XI flow of tan becomes the three speed of Xetal -Xetal -Xet or other Hill -Xetal -Xet or other Xetal -Xetal -Xeta                                                                                                                                                    | 11 FROST PREVENTION TOP<br>12 FROST PREVENTION COMMON<br>13 DRAIN PLMP LINK                                                                                                                                                                                                                                                         | TEMP HIGH<br>TEMP LOW<br>FAN CONTROL O<br>FAN CONTROL O<br>80                                                                                                                                                                                                                                                                                                                                             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| Instructure         Will vary following the "control.           INTERNET         IV succharge the range of set temperature, the indication of set temperature will not vary following the control, and keep the set temperature.           ISTRUCTIVE         Will vary following the control.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 11 [FROST PREVENTION TOP<br>12 [FROST PREVENTION COMPOSE<br>13 [DRAIN PUMP LINK                                                                                                                                                                                                                                                     | TEMP HIGH<br>TEMP LOW<br>FAN CONTROL O<br>FAN CONTROL O<br>FAN CONTROL O<br>\$0 AND %<br>\$0 AND %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Inverticement         Will vary following the "control.           No         INVERTIGATION         Will vary following the control.           13         II/UFHN         Will vary following the control.           13         II/UFHN         Will vary following the control.           14         WIL not vary following the control.         Will vary following the control.           14         WIL not vary following the control.         Will not vary following the control.           14         WIL not vary following the control.         Will not vary following the control.           14         WIL not vary following the control.         Will not vary following the control.           14         WIL not vary following the control.         Will not vary following the control.           14         WIL not vary following the control.         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WIL not vary following the lowers stop position in the four.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 11 [FROST PREVENTION TOP<br>-₩ ≤ 17. 12 [FROST PREVENTION CONTINUE<br>13 [DRAIN PLMP] LINK                                                                                                                                                                                                                                          | TEMP HIGH<br>TEMP LOW<br>FAN CONTROL O<br>FAN CONTROL O<br>\$0 AND %<br>\$0 AND %<br>\$0 AND %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| Invest carried:         Will vary following the "control.           NU IDENDEX         Will vary following the control.           13         I/U FMN         Will vary following the control.           13         I/U FMN         Will vary following the control.           14         MICHAN         Will vary following the control.           15         I/U FMN         Will vary following the control.           16         MICHAN         Will vary following the control.           17         MICHAN         Will vary following the control.           18         MICHAN         Will vary following the control.           19         MICHAN         Ar flow of the becomes the two speed of Xetat - Xetal.           11         MICHAN         Ar flow of the becomes the two speed of Xetat - Xetal.           11         MICHAN         Ar flow of the becomes the two speed of Xetat - Xetal.           14         Sc=PRSTILION         Win must change the indoor function "14 <sc=prstilion", "14="" <sc='PRSTILION"' accordingly.<="" change="" function="" indoor="" must="" td="" the="" you="">           16         INTER         You can select the lower estop position in the four.           16         INTER         You can select the lower estop at any position.</sc=prstilion",>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 11 [FROST PREVENTION TOP<br>12 [FROST PREVENTION COMMON<br>13 [DRAIN PUMP LINK<br>14 [© FAN REHAINING                                                                                                                                                                                                                               | TEMP HIGH<br>TEMP LOW<br>FAN CONTROL O<br>FAN CONTROL O<br>FAN CONTROL O<br>CONTROL O<br>CONTR                                                                                                                                                                                                                                                                                                          |                  | Change of indoor heat exc<br>Vorking only with the Sing<br>or control frost prevention<br>Xrain pump is run during o<br>Xrain pump is run during o<br>Xrain pump is run during o<br>Main pump is run during o                                                                   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dry.<br>cooling, dry, heating, and tan<br>cooling, dry, and fan.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| INVECTORY         Will vary following the control.           INTERPORT         Will vary following the control.           ISTURNE         HI vary following the control.           HI-RED-10         XA frow of tha becomes the two speed of ¥sat-¥sat.           HI-RED-10         XA frow of tha becomes the two speed of ¥sat-¥sat.           HI-RED         XA frow of tha becomes the two speed of ¥sat-¥sat.           HI-RED         XA frow of tha becomes the two speed of ¥sat-¥sat.           HI-RED         XA frow of tha becomes the two speed of ¥sat-¥sat.           HI vary steps         XA frow of tha becomes the two speed of ¥sat-¥sat.           HI vary steps         XA frow of tha becomes the two speed of ¥sat-¥sat.           HI vary steps         XA frow of tha becomes the two speed of ¥sat-¥sat.           HI vary steps         XA frow of tha becomes the two speed of ¥sat-¥sat.           HI vary steps         XA frow of tha becomes the two speed of ¥sat-¥sat.           HI vary steps         You can speed the indoor fraction of vary -restriction*, vary unust change the indoor fraction vary -restriction*, vary unust change the indoor fraction vary -restriction*, vary unust change the indoor fraction vary -restrictind*, vary to vary to the indoor vary -restriction*, va                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 11 (REGT PREVENTION TOP<br>12 (REGT PREVENTION TOP<br>13 (DRATTIN PUMP LINK<br>14 (\$ FAN REPAILING                                                                                                                                                                                                                                 | TEMP HIGH<br>TEMP LOW<br>FAN CONTROL O<br>FAN CONTROL O<br>FAN CONTROL O<br>SO AND X<br>C A MOX<br>C A MOX<br>C A MOX<br>C A MOX<br>C A MOX<br>C A MOX<br>C A MOX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| INVECTIVE         Will vary following the control.           NO TRANCHANE         Will vary following the control.           13         IL/UFAN         Will vary following the control.           13         IL/UFAN         Will vary following the control.           14         Will vary following the control.         Will vary following the control.           14         SPERISTION         XF flow of fan becomes the two speed of Xear +Xeal.           14         SPERISTION         XF flow of fan becomes the two speed of Xear +Xeal.           14         SPERISTION         If you change the remote control function '14 <speristion', '14="" <speristion',="" can="" change="" four.<="" function="" in="" indoor="" lower="" must="" position="" select="" stop="" td="" the="" you="">           15         INDERLYPE         The lower can stop at any position.           15         INDERLYPE         Xear PARSITION'</speristion',>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 11 (REST REVENUEN DEF<br>12 (REST REVENUE CONTRACT<br>13 (DEGAIN PURPLINE<br>14 (\$ FAN REPAINING                                                                                                                                                                                                                                   | TEMP HIGH<br>TEMP LOW<br>FAN CONTROL O<br>FAN CONTROL O<br>FAN CONTROL O<br>G & AND X:<br>G & A                                                                                                                                                                                                                                                                                                                                                                |                  | Change of Indoor heat exc<br>Vorking only with the Sing<br>To control frost prevention<br>Xrain pump is run during of<br>Xrain pump is run during of<br>Xrain pump is run during of<br>Xrain pump is stopped is<br>Uter cooling is stopped is                                                                                                                                                                                                                                                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| INVECTORY         Wilk vary following the control.           IST INDUCTIVE         Variation of the locations the two speed of the top variation of the following the control.           IST INDUCTIVE         Variation of the information of the four.           IST INDUCTIVE         Variation of the location speed of the top variation of the four.           IST INDUCTIVE         Variation of the location of the four.           IST INDUCTIVE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 11 (REST REVENTION FOR<br>12 (REST REVENTION FOR<br>13 (GRAIN PUMP LINK<br>14 (2) FAN RETAINING                                                                                                                                                                                                                                     | TEMP HIGH<br>TEMP LOW<br>FAN CONTROL O<br>FAN CONTROL O<br>FAN CONTROL O<br>G & AND/R<br>G & AND/R<br>G & AND/R<br>D & AND/R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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prevention<br>Yrain pump is run during<br>Yrain pump is run during<br>Yrain pump is run during<br>After cooling is stopped is<br>Mer cooling is stopped is                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ple split series.<br>, the indoor fan tap is raised<br>cooling and dry.<br>cooling, dry and heating.<br>cooling, dry and heating.<br>cooling, dry and heating.<br>Cooling, dry and fan.<br>Cooling, dry and fan.<br>OFF, the fan does not perfor<br>OFF, the fan perform extra<br>OFF, the fan perform extra                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| INVECTORING         Wilk vary following the control.           NOT DRIV CHARGE         Wilk vary following the control.           13         IZUFAN         Wilk vary following the control.           14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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PREVENTION TOP           12         FREE PREVENTION CONTINUE           13         DRAIN PUMP LINK:           14         10           15         1% FAN REPAILING                                                                                                                                                    | TEMP HIGH<br>TEMP LOW<br>FAN CONTROL O<br>FAN CONTROL O<br>FAN CONTROL O<br>SIG AND/X<br>SIG A                                                                                                                                                                                                                                                                                                          |                  | change of indoor heat exc<br>Vorking only with the Sing<br>o control frost prevention<br>Yrain pump is run during y<br>Arain pump is run during y<br>Her cooling is stopped is<br>ther cooling is stopped is                                                                          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dry and heating.<br>cooling. dry and fan.<br>OFF, the fan does not perform extra<br>OFF, the fan                                   | t frost prevention co<br>t.<br>operation for half a<br>operation for six ho<br>operation for six ho                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| Instructure         will vary following the "control.           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| Internet         Will wary following the "control.           INTERCENTER         Will wary following the "control.           INTERCENTER         Will wary following the "control.           INTERCENTER         Will not wary following the "control.           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| Instruction         will vary following the "control.           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| Internet         Will vary following the Control.           VBLINEW         Will vary following the Control.           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  © FAN REMAINING           14         © FAN REMAINING           15         IN FAN REMAINING           16         IN FAN REMAINING           17         IPRESSURE DENINGE                      | TEPP HIGH           TEPP LOW           FAN CONTROL OF           EAN CONTROL OF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| International control         Wi way following the control.           INTERNET         Wi way following the control.           IST INTERNET         Wi nay following the control.           IST INTERNET         Variation of the index form of the index form of the index form of the index form external integer the low ere as top at any position.           IST INTERNET         Wou input signal into Chi of the index form external integer enternal.           INDUVINUE         How input signal into Chi of the index form external integer enternal.           IST INDUMINENT         Unout with be operated independently according to the input from external independently according to the input from external.           IST IND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 11         FREE PREVENTION FOR           12         FREE PREVENTION FOR           13         DEPAIN PUMP LINK           14         IP FAN REPAINING           15         FAN REPAINING           16         IN FAN REPAINING           17         IPRESSURE DIMINIC           17         IPRESSURE DIMINIC                          | TEPP HIGH<br>TEPP LUW<br>FAN CONTROL OF<br>FAN CONTROL OF<br>FAN CONTROL OF<br>OF ANY<br>CONTROL OF<br>CONTROL<br>OF ANY<br>CONTROL<br>OF ANY<br>CONTROL<br>OF<br>ANY<br>CONTROL<br>OF<br>ANY<br>CONTROL<br>OF<br>ANY<br>CONTROL<br>OF<br>ANY<br>CONTROL<br>OF<br>ANY<br>CONTROL<br>OF<br>ANY<br>CONTROL<br>OF<br>ANY<br>CONTROL<br>OF<br>ANY<br>CONTROL<br>OF<br>ANY<br>CONTROL<br>OF<br>ANY<br>CONTROL<br>OF<br>ANY<br>CONTROL<br>OF<br>ANY<br>CONTROL<br>OF<br>ANY<br>CONTROL<br>OF<br>ANY<br>CONTROL<br>OF<br>ANY<br>CONTROL<br>OF<br>ANY<br>CONTROL<br>OF<br>ANY<br>CONTROL<br>OF<br>ANY<br>CONTROL<br>OF<br>ANY<br>CONTROL<br>OF<br>ANY<br>CONTROL<br>OF<br>ANY<br>CONTROL<br>OF<br>ANY<br>CONTROL<br>OF<br>ANY<br>CONTROL<br>OF<br>ANY<br>CONTROL<br>OF<br>ANY<br>CONTROL<br>OF<br>ANY<br>CONTROL<br>OF<br>ANY<br>CONTROL<br>OF<br>ANY<br>CONTROL<br>OF<br>ANY<br>CONTROL<br>OF<br>ANY<br>CONTROL<br>OF<br>ANY<br>CONTROL<br>OF<br>ANY<br>CONTROL<br>OF<br>ANY<br>CONTROL<br>OF<br>ANY |                  | Change of indoor heat exc<br>Vorking only with the Sing<br>Vaning pump is run during<br>Yaan pump is run during<br>Yaan pump is run during<br>Than pump is run during<br>Wher cooling is stopped is<br>ther cooling is stopped is<br>ther cooling is stopped is<br>ther cooling is stopped of<br>ther heating is stopped of<br>ther heating is stopped of<br>Yaan pump is stopped of<br>Yaan pump is stopped of<br>Yaan pump is stopped of<br>Yaan pump is stopped of<br>Yaang heating is stopped of Yaang heating hea                                          | parager temperature to start<br>gle spit series.<br>the indoor fan tap is naisec<br>cooling and dry.<br>cooling, dry, and heating,<br>cooling, dry, and anting,<br>cooling, dry, and anting,<br>cooling, dry, and anting,<br>cooling, dry, and anting,<br>dry, the lan potent seta<br>of Fit, the lan perform easts<br>of the langer thermostals to GFF,<br>heating thermostals to GFF,<br>or heating thermostals to GFF,<br>or                | I frost prevention oc<br>I<br>Sum extra operation<br>operation for half a<br>operation for half and<br>operation for an ho<br>operation for an ho | n hour,<br>ur,<br>vur,<br>vurs,<br>erform extra op<br>ra operation fo<br>intermittent op-<br>intermittent op-<br>intermittent op- | peration.<br>or half an hour.<br>or six hours.<br>eration for five r<br>eration for five r                   |

(finished)

### How to set function

Stop air-conditioner and press O(SET) (MODE) buttons at the same time for over three seconds, and the "FUNCTION SET ▼" will be displayed.

| FUNCTION SET | ₹ |
|--------------|---|

2. Press O(SET) button.

5. Press O (SE

- 3. Make sure which do you want to set, "■ FUNCTION ▼" (remote control function) or "I/U FUNCTION ▲" (indoor unit function).
- 4. Press ▲ or ▼ button. Selecct "■ FUNCTION ▼" (remote control function) or "I/U FUNCTION **A**" (indoor unit function).

|            | E FUNCTION   | Ŧ |
|------------|--------------|---|
| Γ) button. | I/U FUNCTION |   |

- 6. [On the occasion of remote control function selection]
  - IDATA LOADING" (Indication with blinking)

Display is changed to "01 ⊕ VIA ESP SET".

Press or button. "No. and function" are indicated by turns on the remote control function table, then you can select from them. (For example)



③ Press (SET) button. The current setting of selected function is indicated. (for example) "AUTO RUN ON"  $\leftarrow$  If "02 AUTO RUN SET" is selected



④ Press ▲ or ▼ button. Select the setting.



⑤ Press ◯◯ (SET)

"SET COMPLETE" will be indicated, and the setting will be completed. Then after "No. and function" indication returns, Set as the

same procedure if you want to set continuously ,and if to finish, go to 7.

|              | D2 |
|--------------|----|
| SET COMPLETE |    |

7. Press ON/OFF button. Setting is finished.



#### [On the occasion of indoor unit function selection]

① "DATA LOADING" (Blinking for 2 to 23 seconds to read the data)

Indication is changed to "02 FAN SPEED SET". Go to 2.

### [Note]

(1) If plural indoor units are connected to a remote control, the indication is "I/U 000" (blinking)  $\leftarrow$  The lowest number of the indoor unit connected is indicated.

| I/U000 | * |
|--------|---|
|        |   |

(2) Press ( or V button. Select the number of the indoor unit you are to set If you select "ALL UNIT  $\checkmark$ ", you can set the same setting with all unites. (3) Press O(SET) button.

Press or button.

"No. and function" are indicated by turns on the indoor unit function table, then you can select from them. (For example)

|               | 02 ← | L | Function No |
|---------------|------|---|-------------|
| Fan Speed Set | ←    | H | Function    |

③ Press <u>(SET)</u> button. The current setting of selected function is indicated. (For example) "STANDARD" ← If "02 FAN SPEED SET" is selected.

|          | <i>02</i> |   |         |
|----------|-----------|---|---------|
| STANDARD | ←         | Ӈ | Setting |

④ Press ▲ or ▼ button.

Select the setting

S Press (SET) button. "SET COMPLETE" will be indicated, and the setting will be

completed.

Then after "No. and function" indication returns, set as the same procedure if you want to set continuously , and if to finish, go to 7.

> 02 SET COMPLETE

When plural indoor units are connected to a remote control, press the <u>AIR CON No.</u> button, which allows you to go back to the indoor unit selection screen. (example "I/U 000 ▲")

It is possible to finish by pressing ON/OFF button on the way, but unfinished change of setting is unavailable.

- During setting, if you press ( // )(RESET) button, you return to the previous screen.
- 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 **V**", the setting of the lowest number indoor unit is displayed.)

## (c) Operation and setting from wired remote control

Blank : Not compatible — : No function on remote control ○ : Correspondence △ : Corresponding part

|          | Setting & d                                                                | isplay item                                            | Description                                                                                                                                                                                                                                                                                                                                                                                                | RC-EX3A | RC-E5    |
|----------|----------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
| 1.R<br>1 | emote control network<br>Control plural indoor units b                     | by a single remote control                             | A remote control can control plural indoor units up to 16 (in one group of remote control network).                                                                                                                                                                                                                                                                                                        | 0       | 0        |
| 2        | Main/sub setting of remote of                                              | controls                                               | An address is set to each indoor unit.<br>A pair of remote controls (including optional wireless remote control) can be connected within the remote control<br>patwork. So not a "Moin" and the other to "Sub"                                                                                                                                                                                             | 0       | 0        |
| 2 T      | OP serren Switch manipulati                                                | on                                                     | network, set one to wain and the other to sub.                                                                                                                                                                                                                                                                                                                                                             |         |          |
| 1        | Menu                                                                       |                                                        | "Control", "State", or "Details" can be selected. (3-8)                                                                                                                                                                                                                                                                                                                                                    | 0       | -        |
| 2        | Operation mode                                                             |                                                        | "Cooling", "Heating", "Fan", "Dry" or "Auto" can be set.                                                                                                                                                                                                                                                                                                                                                   | 0       | 0        |
| 3        | Set temp.                                                                  |                                                        | "Set temperature" can be set by 0.5°C interval.                                                                                                                                                                                                                                                                                                                                                            | 0       | 0        |
| 4        | Air flow direction                                                         |                                                        | "Air flow direction" [Individual flap control] can be set.                                                                                                                                                                                                                                                                                                                                                 | 0       |          |
| 6        | Fon anood                                                                  |                                                        | Select Enable of Disable for the 3D AUTO .                                                                                                                                                                                                                                                                                                                                                                 | 0       |          |
| 6        | Timer setting                                                              |                                                        | Timer operation" can be set                                                                                                                                                                                                                                                                                                                                                                                |         |          |
| 7        | ON/OFF                                                                     |                                                        | "On/Off operation of the system" can be done.                                                                                                                                                                                                                                                                                                                                                              | 0       | l õ      |
| 8        | F1 SW                                                                      |                                                        | The system operates and is controlled according to the function specified to the F1 switch.                                                                                                                                                                                                                                                                                                                | Ŏ       | -        |
| 9        | F2 SW                                                                      |                                                        | The system operates and is controlled according to the function specified to the F2 switch.                                                                                                                                                                                                                                                                                                                | 0       | -        |
| 3.U      | seful functions                                                            |                                                        |                                                                                                                                                                                                                                                                                                                                                                                                            | ļ       |          |
|          | Individual flap control                                                    |                                                        | The moving range (the positions of upper limit and lower limit) of the flap for individual flap can be set.                                                                                                                                                                                                                                                                                                |         |          |
| 4        | When the nanel with the ant                                                | i-draft function is assembled                          | operation mode and for each blow outlet                                                                                                                                                                                                                                                                                                                                                                    |         |          |
| 3        | Timer settings                                                             | Set On timer by hour                                   | The period of time to start operation after stopping can be set.<br>• The period of start operation after stopping can be set.<br>• The period of set time can be set within range of Ihour-12houres (1hr interval).<br>• The operation mode, set temp, and fins seed at starting operation can be set.                                                                                                    | Δ       | _        |
|          |                                                                            | Set Off timer by hour                                  | The operation mode, set temp, and ran speed at starting operation can be set.<br>The period of time to stop operation after starting can be set.<br>The period of set time are be set within promo of hour 1 hourse (the integral)                                                                                                                                                                         | 0       | 0        |
|          |                                                                            | Set On timer by clock                                  | The clock time to start operation can be set                                                                                                                                                                                                                                                                                                                                                               | 1       |          |
|          |                                                                            |                                                        | The set clock time can be set by 5 minutes interval.     [Once (one time only)] or [Everyday] operation can be switched.     The operation mode, set temp and fan speed at starting operation can be set.                                                                                                                                                                                                  |         | 0        |
|          |                                                                            | Set Off timer by clock                                 | The clock time to stop operation can be set.<br>• The set clock time can be set by 5 minutes interval.<br>• [Once (one time only]) or [Everyday] operation can be switched.                                                                                                                                                                                                                                | 0       | 0        |
|          |                                                                            | Confirmation of timer settings                         | Status of timer settings can be seen.                                                                                                                                                                                                                                                                                                                                                                      | 0       | -        |
| 4        | Favorite setting                                                           |                                                        | Set the operation mode, setting temperature, air flow capacity and air flow direction for the choice setting operations                                                                                                                                                                                                                                                                                    |         | _        |
|          | [Administrator password]                                                   |                                                        | Set them for the Favorite set 1 and the Favorite set 2 respectively.                                                                                                                                                                                                                                                                                                                                       |         | L        |
| 5        | Weekly timer                                                               |                                                        | On timer and Off timer on weekly basis can be set.<br>8-operation patterns per day can be set at a maximum.<br>• The setting clock time can be set by 5 minutes interval.<br>• Holiday setting is available.<br>• The operation mode, set temp and fan speed at starting operation can be set.                                                                                                             | 0       | 0        |
| 6        | Home leave mode<br>[Administrator password]                                |                                                        | When leaving home for a long period like a vaction leave, the unit can be operated to maintain the room temperature<br>not to be hotter in summer or not to be colder in winter.<br>• The judgment to switch the operation mode (Cooling ⇔Heating) is done by the both factors of the set temp. and outdoor                                                                                                | 0       | _        |
|          |                                                                            |                                                        | ar temp.<br>• The set temp. and fan speed can be set.                                                                                                                                                                                                                                                                                                                                                      |         |          |
|          | When the ventilation when the ventilation                                  | ined.                                                  | On Off operation of the external ventilator can be done.<br>It is necessary to set from [Menu] ⇒ [Service setting] ⇒ [R/C function settings] ⇒ [Ventilation setting].<br>• If the "Independent" is selected for the ventilation setting, the ventilator can be operated or stopped.                                                                                                                        | 0       | 0        |
| 8        | Select the language                                                        |                                                        | Select the language to display on the remote control.<br>• Select from English, German, French, Spanish, Italian, Dutch, Turkish, Portuguese, Russian,<br>Polish, Japanese and Chinese.                                                                                                                                                                                                                    | 0       | -        |
| 9        | Look, look                                                                 |                                                        | Indoor temperature, outdoor temperature and power consumption are indicated.                                                                                                                                                                                                                                                                                                                               | Δ       |          |
| 10       | Power consumption indicati                                                 | on                                                     | The power consumption of today, this week and this year is indicated by a chart. It is possible to compare with yesterday, last week and last year.<br>• This item may not indicate depending on indoor and outdoor units which are combined.                                                                                                                                                              | 0       | _        |
| 4.E      | nergy-saving setting                                                       |                                                        | Administrator password                                                                                                                                                                                                                                                                                                                                                                                     |         | L        |
| 1        | Sleep timer                                                                |                                                        | To prevent the timer from keeping ON, set hours to stop operation automatically with this timer.<br>• The selectable range of setting time is from 30 to 240 minutes. (10 minutes interval)<br>• When setting is "Enable", this timer will activate whenever the ON timer is set.                                                                                                                          | 0       | -        |
| 2        | Peak-cut timer                                                             |                                                        | Power consumption can be reduced by restructing the maximum capacity.<br>Set the [Start time], the [End time] and the capacity limit % (Peak-cut %).<br>4-operation patterns per day can be set at maximum.<br>• The setting time can be changed by 5-minutes interval.<br>• The selectable range of capacity limit % (Peak-cut %) is from 0% to 40-80% (20% interval).<br>• Holiday setting is available. | 0       | _        |
| 3        | Automatic temp. set back                                                   |                                                        | After the elapse of the set time period, the current set temp. will be set back to the [Set back time.]<br>• The setting can be done in cooling and heating mode respectively.<br>• Selectable range of the set time is from 20 min. to 120 min. (10 min. interval).<br>• Set the [Set back temp.] by 1°C interval.                                                                                        | 0       | _        |
| 4        | Infrared sensor control (Mot<br>When the panel with the infr<br>assembled. | ion sensor control)<br>rared sensor (motion sensor) is | When the infrared sensor (motion sensor) is used, it is necessary to set Enable or Disable for the "Power control" and the "Auto-off".                                                                                                                                                                                                                                                                     | 0       | _        |
| 5.F      | ilter                                                                      | Eilten eine maat                                       | The filter size can be react                                                                                                                                                                                                                                                                                                                                                                               |         |          |
|          | r mer sign reset                                                           | Setting next cleaning date                             | The next cleaning date can be set                                                                                                                                                                                                                                                                                                                                                                          | 1       |          |
| 6.U      | ser setting                                                                | Issuing next cleaning unit                             | r no noss oreaning une oun be sor.                                                                                                                                                                                                                                                                                                                                                                         | 1       |          |
| 1        | Internal settings                                                          | Clock setting                                          | The current date and time can be set or revised.<br>• If a power failure continues no longer than 80 hours, the clock continues to tick by the built-in power source.                                                                                                                                                                                                                                      | 0       | -        |
|          |                                                                            | Date and time display                                  | [[Display] or [Hide] the date and/or time can be set, and [12H] or [24H] display can be set.                                                                                                                                                                                                                                                                                                               |         |          |
|          |                                                                            | Summer time                                            | When select [Enable], the +1hour adjustment of current time can be set. When select [Disable], the [Summer time] adjustment can be reset.                                                                                                                                                                                                                                                                  | 0       | -        |
|          |                                                                            | Backlight                                              | The contrast of LCD can be adjusted ingret of lower.<br>Switching on/off a light can be set and period of the lighting time can be set within the range of Seec-90 sec (Seec interval)                                                                                                                                                                                                                     | +       | <u> </u> |
|          |                                                                            | Control sound                                          | It can set with or without [Control sound (beep sound)] at touch panel.                                                                                                                                                                                                                                                                                                                                    | Ŏ       | -        |
|          |                                                                            | Operation lamp luminance                               | This is used to adjust the luminance of operation lamp.                                                                                                                                                                                                                                                                                                                                                    | Ō       | -        |

| Setting & display item |                                                    | play item                                                                | Description                                                                                                                                                                                                                                                                          | RC-EX3A | RC-E5       |
|------------------------|----------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------|
| 2                      | Administrator settings<br>[Administrator password] | Permission/Prohibition setting                                           | Permission/Prohibition setting of operation can be set. [On/Off]<br>[Change set temp] [Change operation mode] [Change flap direction] [Change fan speed] [High power operation]<br>[Energy-saving operation] [Timer]<br>Request for administrator can be set                         | 0       | _           |
|                        |                                                    |                                                                          | [Individual flap control] [Weekly timer] [Select the language] [Anti draft setting]                                                                                                                                                                                                  |         |             |
|                        |                                                    | Outdoor unit silent mode timer                                           | The period of time to operate the outdoor unit by prioritizing the quiteness can be set.<br>• The [Start time] and the [End time] for operating outdoor unit in silent mode can be set.<br>• The period of the operation time can be set once aday by 5 minutes interal.             | 0       | 0           |
|                        |                                                    | Setting temp. range                                                      | The upper/lower limit of temp. setting range can be set.<br>• The limitation of indoor temp. setting range can be set for each operation mode in cooling and heating.                                                                                                                | 0       | 0           |
|                        |                                                    | Temp increment setting                                                   | The temp increment setting can be changed by 0.5°C or 1.0°C.                                                                                                                                                                                                                         |         | 0           |
|                        |                                                    | R/C display setting                                                      | Register [Room name] [Name of I/U]                                                                                                                                                                                                                                                   |         |             |
|                        |                                                    |                                                                          | Display [Indoor temp. display] or not.<br>Display [Error code display] or not.<br>Display [Heating stand-by display] [Defrost operation display] [Auto cooling/heating display] [Display temp of R/C,<br>Room, Outdoor] or not                                                       | 0       | _           |
|                        |                                                    | Change administrator password                                            | The administrator password can be changed. (Default setting is "0000")<br>The administrator password can be reset.                                                                                                                                                                   |         | -           |
|                        |                                                    | F1/F2 function setting                                                   | Functions can be set for F1 and F2. Selectable functions:<br>[High power operation], [Energy-saving operation], [Silent mode cont.], [Home leave mode], [Favorite set 1],<br>[Favorite set 2] and [Filter sign reset].                                                               | 0       | _           |
| 7.Se                   | rvice setting                                      | Installation data                                                        | The Hestellation datal can be registed                                                                                                                                                                                                                                               |         |             |
|                        | [Service password]                                 |                                                                          | When registering the [Instantion date], the [Next service date] is displayed automatically.<br>(For changing the [Next service date], please refer the item of [Service & Maintenance])                                                                                              | 0       | _           |
|                        |                                                    | Company information                                                      | The [Company information] can be registed and can be displayed on the R/C.<br>• The [Company] can be registered within 26 characters.<br>• The [Phone No.] can be registed within 13 digits.                                                                                         | 0       | -           |
|                        |                                                    | Test run                                                                 | On/Off operation of the test run can be done.                                                                                                                                                                                                                                        |         |             |
|                        |                                                    | Cooling test run<br>Drain pump test run                                  | The [Cooling test run] can be done at 5°C of set temp, for 30 minutes.                                                                                                                                                                                                               |         |             |
|                        |                                                    | Static pressure adjustment                                               | In case of combination with only the ducted indoor unit which has a function of static pressure adjustment, the static pressure is adjustable.                                                                                                                                       |         | _           |
|                        |                                                    | Change auto-address                                                      | The set address of each indoor unit decided by auto-address setting method can be changed to any other address.                                                                                                                                                                      |         | —           |
|                        |                                                    | Address setting of main IU                                               | Main indoor unit address can be set.<br>• Only the Main indoor unit can change operation mode and the Sub indoor units dominated by the Main indoor shall follow.<br>• The Main indoor unit can domain 10 indoor units at a maximum                                                  |         | -           |
|                        |                                                    | IU back-up function                                                      | When a pair of indoor units (2 groups) is connected to one unit of remote control, it can be set Enable or Disable for the IU rotation]. IIU capacity back-upl and IIU fault back-upl                                                                                                | 0       | -           |
|                        |                                                    | Infrared sensor setting (Motion                                          | Set Enable or Disable for the infrared sensor detectors of indoor units connected to the remote control.                                                                                                                                                                             |         |             |
|                        |                                                    | When the panel with the infrared<br>sensor (motion sensor) is assembled. | If Disable is selected, it cannot be control the infrared sensor control for the energy-saving setting.                                                                                                                                                                              | 0       | -           |
|                        |                                                    | Grill lifting operation                                                  | Set enable for automatic lifting panel operation.<br>When automatic lifting panel is assembled.                                                                                                                                                                                      |         |             |
| 2                      | R/C function setting                               | Main/Sub R/C                                                             | The R/C setting of [Main/Sub] can be changed.                                                                                                                                                                                                                                        | 0       | -           |
|                        | [Service password]                                 | Return air temp.                                                         | When two or more indoor units are connected to one unit of remote control, suction sensors, which are used for the<br>judgement by thermostat, can be selected.<br>• It can be selected from [Individual], [Master IU] and [Average temp].                                           | 0       | -           |
|                        |                                                    | R/C sensor                                                               | It can be set the mode to switch to the remote control sensor. It can be selected from cooling and heating.                                                                                                                                                                          | 0       | Δ           |
|                        |                                                    | R/C sensor adjustment                                                    | The offset value of [R/C sensor] sensing temp. can be set respectively in heating and cooling.                                                                                                                                                                                       | 0       | $\triangle$ |
|                        |                                                    | °C / °F                                                                  | Set the unit for setting temperatures.                                                                                                                                                                                                                                               |         |             |
|                        |                                                    | Paul and d                                                               | • °C or °F can be selected.                                                                                                                                                                                                                                                          |         | 0           |
|                        |                                                    | Fan speed<br>External input                                              | Fan speeds can be selected.<br>When two or more indoor units are connected to one unit of remote control, the range to apply CnT inputs can be set                                                                                                                                   |         | -           |
|                        |                                                    | Upper/lower flap control                                                 | [Stop at fixed position] or [Stop at any position] can be selected for the upper and lower louvers.                                                                                                                                                                                  | ŏ       | Õ           |
|                        |                                                    | Left/right flap control                                                  | [Fixed position stop] or [Stop at any position] can be selected for the right and left louvers.                                                                                                                                                                                      |         |             |
|                        |                                                    | Auto-restart                                                             | The operation control method after recovery of power failure happened during operation can be set.                                                                                                                                                                                   | Lõ      |             |
|                        |                                                    | Auto temp. setting                                                       | [Enable] or [Disable] of [Auto temp. setting] can be selected.                                                                                                                                                                                                                       | 0       |             |
| 3                      | IU settings                                        | Auto fan speed                                                           | [Enable] or [Disable] of [Auto fan speed] can be selected.<br>The fan speed for indoor units can be set                                                                                                                                                                              |         |             |
|                        |                                                    | Filter sign                                                              | The setting of filter sign display timer can be done from following patterns.                                                                                                                                                                                                        |         |             |
|                        | [Service password]                                 | External input 1                                                         | The connect of control by external input 1 can be changed.                                                                                                                                                                                                                           |         |             |
|                        |                                                    | External input 1 signal                                                  | The type of external input 1 signal can be changed.<br>The connect of control by external input 2 can be changed                                                                                                                                                                     | 0       |             |
|                        |                                                    | External input 2 signal                                                  | The type of external input 2 signal can be changed.                                                                                                                                                                                                                                  |         | -           |
|                        |                                                    | Heating thermo-OFF temp. adjustment                                      | The judgement temp. of heating themo-off can be adjusted within the range from 0 to $+3^{\circ}C$ (1°C interval).                                                                                                                                                                    |         |             |
|                        |                                                    | Fan control in cooling thermo-OFF                                        | The sensing temp, of return air temp, sensor built in the indoor unit can be adjusted within the range of $\pm 2$ C.<br>Fan control, when the cooling thermostat is turned OFF, can be changed                                                                                       |         |             |
|                        |                                                    | Fan control in heating thermo-OFF                                        | Fan control, when the heating thermostat is turned OFF, can be changed.                                                                                                                                                                                                              | Δ       | Δ           |
|                        |                                                    | Anti-frost temp.                                                         | Judgment temperature for the anti-frost control during cooling can be changed.                                                                                                                                                                                                       |         |             |
|                        |                                                    | Drain pump operation                                                     | In any operation mode in addition to cooling and dry mode, the setting of drain pump operation can be done.                                                                                                                                                                          |         |             |
|                        |                                                    | Keep fan operating after cooling<br>is stopped                           | The time period residual fan operation after stopping or thermo-off in cooling mode can be set.                                                                                                                                                                                      |         |             |
|                        |                                                    | Keep fan operating after heating<br>is stopped                           | The time period residual fan operation after stopping or thermo-off in heating mode can be set.                                                                                                                                                                                      |         |             |
|                        |                                                    | Intermittent fan operation in heating                                    | The fan operation rule following the residual fan operation after stopping or themo-off in heating mode can be set.                                                                                                                                                                  |         |             |
|                        |                                                    | Fan circulator operation                                                 | In case that the fan is operated as the circulator, the fan control rule can be set.<br>When only the OA processing units are operated, control pressure value can be changed                                                                                                        |         |             |
|                        |                                                    | Auto operation mode                                                      | The [Auto rule selection] for switching the operation mode automatically can be selected from 3 patterns.                                                                                                                                                                            |         |             |
|                        |                                                    | Thermo. rule setting                                                     | When selecting [Outdoor air temp. control], the judgment temp can be offset by outdoor temp                                                                                                                                                                                          |         |             |
|                        |                                                    | IU overload alarm                                                        | If the difference between the setting remerature and the suction temperature becomes larger than the temperature difference<br>set for the overload alarm, at 30 minutes after the start of operation, the overload alarm signal is transmitted from the external<br>content (CoT So | 0       | _           |
| L                      |                                                    | External output setting *1                                               | Functions assigned to the external outputs 1 to 4 can be changed.                                                                                                                                                                                                                    | Δ       |             |

| Setting & display item                                                  |                | splay item                   | Description                                                                                                                                                                                                                                                                         |   | RC-E5       |
|-------------------------------------------------------------------------|----------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------------|
| 4 Service & Maintenance IU address [Service password] Next service date |                | IU address                   | Max 16 indoor units can be connected to one remote control, and all address No. of the connected indoor units can be displayed.<br>• The indoor unit conforming to the address No. can be identified by selecting the address No. and tapping [Check] to<br>operate the indoor fan. | 0 | -           |
|                                                                         |                | Next service date            | The [Next service date] can be registered.<br>• The [Next service date] and [Company information] is displayed on the message screen.                                                                                                                                               | 0 | -           |
|                                                                         |                | Operation data               | The [Operation data] for indoor unit and outdoor unit can be displayed.                                                                                                                                                                                                             | 0 | 0           |
|                                                                         |                | Error display                |                                                                                                                                                                                                                                                                                     |   |             |
|                                                                         |                | Error history                | he error history can be displayed.                                                                                                                                                                                                                                                  |   |             |
| Display anomaly data                                                    |                | Display anomaly data         | The operation data just before the latest error stop can be displayed.                                                                                                                                                                                                              | 0 | $\triangle$ |
|                                                                         |                | Erase anomaly data           | Anomaly operation data can be erased.                                                                                                                                                                                                                                               | ] |             |
|                                                                         |                | Reset periodical check       | The timer for the periodical check can be reset.                                                                                                                                                                                                                                    | ] |             |
|                                                                         |                | Saving IU settings           | The I/U settings memorized in the indoor PCB connected to the remote control can be saved in the memory of the remote control.                                                                                                                                                      | 0 | -           |
|                                                                         |                | Special settings             | [Erase IU address] [CPU reset] [Restore of default setting] [Touch panel calibration]                                                                                                                                                                                               | 0 | $\triangle$ |
|                                                                         |                | Indoor unit capacity display | Address No. and capacities of indoor units connected to the remote control are displayed.                                                                                                                                                                                           | 0 | -           |
| 8.Contact company                                                       |                |                              | Shows registered [Contact company] and [Contact phone].                                                                                                                                                                                                                             | 0 | -           |
| 9.Inspection                                                            |                |                              |                                                                                                                                                                                                                                                                                     |   |             |
| Confirmation of Inspection                                              |                |                              | This is displayed when any error occurs.                                                                                                                                                                                                                                            | 0 | -           |
| 10.                                                                     | PC connection  |                              |                                                                                                                                                                                                                                                                                     |   |             |
|                                                                         | USB connection |                              | Weekly timer setting and etc. can be set from PC                                                                                                                                                                                                                                    | 0 | _           |

Listed items may not function depending on the specifications of indoor and outdoor units which are combined.
\*1 It supports only following functions.
Operation output / Heating output / Compressor ON output / Inspection (Error) output / Cooling output / Fan operation output 1 / Fan operation output 2 / Fan operation output 3 / Defrost/oil return output

### (2) Interface kit (SC-BIKN2-E)

SW2-2

\*\* Factory setting

OFF

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 Accessories included in package Safety precautions before installation Be sure to check all the accessories included in package •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 ▲Warning 2 Wood screws (for mounting the interface: ø4x 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. If you install it by yourself, it may cause an electric shock, fire and personal injury, as a result of a system malfunction. Install it in full accordance with the installation manual. Incorrect installation may cause an electric shock, fire and personal injury. • Electrical work must be carried out by a qualified electrician in accordance with the technical standard for electrical equipment, the indoor wiring standard and this installation manual. Incorrect installation may cause an electric shock, fire and personal injury. • Use the specific cables for wiring. And connect all the cables to terminals or connectors securely and clamp them with cable clamps in order for external forces not to be transmitted to the terminals directly. Incomplete connection may cause malfunction, and lead to heat generation and fire. • Use the original accessories and specified components for installation. If the parts other than those prescribed by us are used, it may cause an electric shock, fire and sersonal injury. Connecting the indoor unit's connection cable to the interface 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. 10 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 **(** Interface board DIP switch (SW2) : [Factory setting : all ON] 0 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\* E CnT terminal Terminal block for Superlink E board (SC-ADNA-E)\* 0 Clamp for clamping the connection cable for Clamp for clamping the connection Ŧ (FF 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\*\* ON\*\* External input (CnT input) CnT level input SW2-1 SW2-3 OFF CnT pulse input OFF Operation permission/prohibition (CnT input) ON\*\* Wired remote control : Enable ON\*\* Annual cooling : Enable\*\*\*

OFF

Annual cooling : Disable\*\*\*

\*\*\* Indoor fan control at low outdoor air temperature in cooling

SW2-4



## 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?





(3) Wireless LAN interface kit (WF-RAC)

- This installation manual can also be viewed on the home page of MITSUBISHI HEAVY INDUSTRIES THERMAL SYSTEMS, LTD.
- Please download USER'S MANUAL (Including the guarantee form) via the QR code or from the home page described later.



RKZ012A105

**Safety precautions** Please read these safety precautions carefully before installing and using this product.

• Be sure to follow these precautions because they describe important safety-related information.

| <b>WARNING</b> Failure to follow warnings may caus serious consequences such as deat or severe injury. |                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                        | Failure to follow cautions may cause<br>injury and/or property damage.<br>Depending on the situation, failure to<br>follow cautions may lead to serious<br>consequences. |

• The "graphic symbols" in this document have the following meanings.

| $\bigcirc$ | Prohibited.                     |
|------------|---------------------------------|
|            | Be sure to follow instructions. |

• After the installation work is completed, check the installation according to the installation work check items. Request your customer to keep this installation manual at the customer's site.









# 1. Selecting the installation location and installing the main body

# <Selecting the installation location>

Install this product in a location that satisfies the following conditions with the agreement of your customer.

- A location where this product is not exposed to direct sunlight
- A location where this product is not influenced by a heating device such as a stove
- A location with no moisture, and where this product is not exposed to water
- A location where this product is not exposed directly to oil droplets or steam
- A location without projections or depressions on the installation surface
- A location at least 1 m away from a TV set, stereo, or radio (The image may be disturbed, and noise may be generated.)
- A location where this product is not influenced by a high-frequency or electrical device

# <Cautions for installation>

- Do not mount the holder and main unit inside the indoor unit.
- Fix the holder on a wall, pillar, etc. securely with attached screws. (Do not mount it on a clay wall, etc.)
- Install the connection cable securely by sliding the main unit from above to prevent the cable from being trapped in the holder.
- Install the main unit within the range where the connection cable can reach the indoor unit. (The length of the connection cable is about 1.3 m.)
- Never extend the connection cable because this product may fail to operate normally if the cable is extended.
- Remove the body from the holder and install it in a position where the body label can be seen. (SSID and KEY (Password) may need to be checked.)

# When installing the holder and main unit inside an indoor unit in which they can be included>

• Do not install them inside an indoor unit, except when a unit can include them.



Accessories supplied with this productCheck the accessories supplied with this product.SymbolPart nameQuantityAHolder1BHolder mounting screw2CMain unit1

D Installation manual (this document) 1

Holes for mounting the unit on a wall



# 2. Connecting this product with the indoor unit

Connection cable

Connect the indoor unit connection cable to the indoor control printedcircuit board.

- For the connection of the indoor unit, refer to the "description for connecting the interface kit" in the installation manual of the indoor unit.
- Connect the connector of the indoor unit connection cable to the terminal (CNS) on the indoor control board by installing the cable along the wiring route from below.
- Securely connect the connector of the indoor connection cable to the CNS terminal on the indoor control board.
- About the handling of the connection cable If the connection cable is too long, the redundant cable section should be stored loosely in a space on the back of the indoor unit.

# After the installation work is completed, be sure to check the following.

## Installation work check items

□ Is the holder fixed securely?

□ Is the cable trapped? Is the connection cable under a load?

□ Is the connector connected properly and securely?

- □ Did you forget to tighten a screw on the main body of the indoor unit?
- Turn ON the power to the indoor unit. After that, do the Communication LED and Running LED become ON for about 10 seconds and then OFF? (If the Communication LED and Running LED blink alternately at intervals of 10 seconds, check the connection.)



□ Did you explain the cautions in the user's manual to the customer?

- □ Did you pass the installation manual to your customer and request the customer to thoroughly read and store the manual?
- \* If you have any question on the installation, please contact us at the URL on the last page for inquiry.

## Notes for users

• Before using the product, the user needs to install the dedicated application.

The user needs to install the smartphone application and then set up a connection with the interface. Set up a connection with the interface according to the user's manual downloaded via the following QR code or from the URL.

- The application is free. Communications charges are applied to downloading and operation.
- The application name "Smart M-Air" and download service names "Google Play" and "App Store" may be changed in the future.

| How to install the "Smart M-Air" smartphone application                        |                      |                |  |
|--------------------------------------------------------------------------------|----------------------|----------------|--|
| For Android For iOS (iPhone)                                                   |                      |                |  |
| 1. Open [Google Play].                                                         | 1. Open [App Store]. |                |  |
| 2. Search for [Smart M-Air]. 2. Search for [Smart M-Air].                      |                      | 1-Air].        |  |
| 3. Install the application according 3. Install the application according      |                      | on according   |  |
| to the instructions on the screen. to the instructions on the screen           |                      | on the screen. |  |
| User's Manual                                                                  |                      |                |  |
| Refer to the home page of MITSUBISHI HEAVY<br>INDUSTRIES THERMAL SYSTEMS, LTD. |                      |                |  |
| http://www.mhi-mth.co.jp/en/products/<br>users manual.html                     |                      |                |  |

• CE Marking

Refer to the home page of MITSUBISHI HEAVY INDUSTRIES THERMAL SYSTEMS, LTD.

https://www.mhi-mth.co.jp/en/technology/ce\_marking.php

PJZ012D029K 🕅

### (4) 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.



• Carefully read "Safety precautions" first. Follow the instructions for installation.

- Precautions are grouped into "Warning A" and "Caution A". The "Warning A" group includes items that may lead to serious injury or death if not observed. The items included in the "Caution<sup>A</sup>" 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 instruc-
- 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
- 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                                                                        |
|        | '      | OFF (default) | Slave                                      |                                                                               |
|        |        | ON            | Fixed previous protocol                    |                                                                               |
| SW3    | 2      | OFF (default) | Automatic adjustment of Superlink protocol |                                                                               |
|        | SW3    | 3             | ON                                         | Indicates the forced operation stop when abnormality has occurred.            |
|        |        |               | 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"        |                                                                               |

### ∧Caution

- 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 1500 m for 0.75 mm<sup>2</sup>, and up to 1000 m for 1.25 mm<sup>2</sup>. Do not use 2.0 mm<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 "6 Installation".

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- 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):
  - Mount the SL E board in the metal box using the locking supports.
     Minimum should be through the second state of the stateo
  - (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.



Locking supports (4)

▲ When installed outside the indoor unit, put the metal cover on.



▲ When installed on the back of the remote control, mount it directly on the remote control bottom case.



Connect grounding. Connect grounding for the power line to Ground (1), and grounding for the signal line to Ground (2) or to the Ground on the indoor unit control box.



- When connecting to the indoor unit control box (ceiling-concealed type and FDT type only):
  - (1) Mount the SL E board in the control box using the locking supports.
  - (2) Remove 6 bands from the box and put the wiring through the bands to be secured.



Electrical shock hazard! make sure to turn the power off for servicing. Be cautious so that no abnormal force should be applied to the wiring. Do not let the SL E board hung by the wiring. Do not damage the board with a screw driver.

The board is sensitive to static electricity. Release the static electricity of your body before servicing.

(You can do this by touching the control board which is grounded).

### Location of installation

Install the device at the location where there are no electromagnetic waves nor where there is water and dust. The specified temperature range of the device is 0 to  $40^{\circ}$ 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 boa         | ard 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>                                                                                                                | 1                                    |
| 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 | Address overlapping for the SL E board<br>and the Superlink network connected<br>indoor unit                                                                                                                                                                                                                  | E2                                   |
| Off              | Flashing | <ul> <li>Number of connected devices exceeds the<br/>specification for the multiple indoor unit control</li> </ul>                                                                                                                                                                                            | E10                                  |

# **13. TECHNICAL INFORMATION**

## Model SRK20ZSX-W

| Information to identify the model(s) to which | the informat  | the information relates to:                                                                                                                                        |               | If function includes heating: Indicate the heating season the |               |              |                       |
|-----------------------------------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------|---------------|--------------|-----------------------|
| Indoor unit model name                        | SRK20ZS       | SRK20ZSX-W Information relates to. Indicated values should relate to one<br>SRC20ZSX-W Information season at a time. Include at least the heating season 'Average' |               |                                                               | ae'           |              |                       |
|                                               | 01102020      | A-11                                                                                                                                                               |               | nearing season at a time. metude at least th                  | c ricating sc |              | ge.                   |
| 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                                                                                                                                                              | unit          | Seasonal efficiency and energy efficiency c                   | lass          | value        | 01035                 |
| cooling                                       | Pdesignc      | 2.00                                                                                                                                                               | kW            | cooling                                                       | SEER          | 10.00        | A+++                  |
| heating / Average                             | Pdesignh      | 2.80                                                                                                                                                               | kW            | heating / Average                                             | SCOP/A        | 5.20         | A+++                  |
| heating / Warmer                              | Pdesignh      | 3.70                                                                                                                                                               | kW            | heating / Warmer                                              | SCOP/W        | 6.70         | A+++                  |
| heating / Colder                              | Pdesignh      | -                                                                                                                                                                  | kW            | heating / Colder                                              | SCOP/C        | -            | -                     |
| Declared capacity at outdoor temperature T    | designh       |                                                                                                                                                                    |               | Back up heating capacity at outdoor temper                    | ature Tdesic  | inh          | unit                  |
| heating / Average (-10°C)                     | Pdh           | 2.80                                                                                                                                                               | kW            | heating / Average (-10°C)                                     | elbu          | 0            | kW                    |
| heating / Warmer (2°C)                        | Pdh           | 3.70                                                                                                                                                               | kW            | heating / Warmer (2°C)                                        | elbu          | 0            | kW                    |
| heating / Colder (-22°C)                      | Pdh           | -                                                                                                                                                                  | kW            | heating / Colder (-22°C)                                      | elbu          | -            | kW                    |
|                                               |               |                                                                                                                                                                    |               |                                                               |               |              |                       |
| Declared capacity for cooling, at indoor tem  | perature 27(  | 19)°C and                                                                                                                                                          |               | Declared energy efficiency ratio, at indoor te                | emperature 2  | 27(19)°C and | t                     |
| outdoor temperature 1j                        | Ddo           | 2.00                                                                                                                                                               | 1×14/         | outdoor temperature 1j                                        | EEDd          | 6 45         | 1                     |
| Tj=30℃                                        | Pdc           | 1 47                                                                                                                                                               | kW            | Ti=30°C                                                       | EERd          | 9.29         | -                     |
| Tj=25℃                                        | Pdc           | 1.25                                                                                                                                                               | kW            | Ti=25°C                                                       | FFRd          | 13.90        | _                     |
| Tj=20°C                                       | Pdc           | 1.36                                                                                                                                                               | kW            | Tj=20°C                                                       | EERd          | 20.70        | -                     |
|                                               |               | ·                                                                                                                                                                  | ·             |                                                               |               | ·            | ·                     |
| Declared capacity for heating / Average sea   | son, at indo  | or                                                                                                                                                                 |               | Declared coefficient of performance / Avera                   | ge season, a  | at indoor    |                       |
| temperature 20°C and outdoor temperature      | Tj            | 0.40                                                                                                                                                               | 12147         | temperature 20°C and outdoor temperature                      | Tj            | 0.00         | 1                     |
| 1]=-7 C                                       | ran<br>Dab    | 2.40                                                                                                                                                               | KVV<br>KVV    | I]=-7 C<br>Ti=2℃                                              | CORY          | 3.20         | -                     |
| Ti=7℃                                         | Pull<br>Pdh   | 0.04                                                                                                                                                               | kW            | Ti=7°C                                                        | COPd          | 5.30         | Ē                     |
| Tj=7 ℃                                        | Pdh           | 0.96                                                                                                                                                               | kW            | Ti=12°C                                                       | COPd          | 8.28         | _                     |
| Ti=bivalent temperature                       | Pdh           | 2.80                                                                                                                                                               | kW            | Ti=bivalent temperature                                       | COPd          | 2.79         | -                     |
| Tj=operating limit                            | Pdh           | 2.80                                                                                                                                                               | kW            | Tj=operating limit                                            | COPd          | 2.79         | -                     |
|                                               |               |                                                                                                                                                                    |               |                                                               |               |              |                       |
| Declared capacity for heating / Warmer sea    | son, at indoo | or                                                                                                                                                                 |               | Declared coefficient of performance / Warm                    | ier season, a | at indoor    |                       |
| temperature 20°C and outdoor temperature      | Tj            | 0.50                                                                                                                                                               | 1             | temperature 20°C and outdoor temperature                      | Tj            | 0.40         | 1                     |
| I]=2°C                                        | Pan           | 3.70                                                                                                                                                               | KVV           | 1j=2°C                                                        | COPd          | 3.40         | -                     |
| Tj=7 C                                        | Pan<br>Pdb    | 2.40                                                                                                                                                               | KVV           | Tj=7 C                                                        | COPd          | 6.1Z<br>8.21 | -                     |
| Ti=hivalent temperature                       | Pdh           | 3 70                                                                                                                                                               | kW            | Ti=bivalent temperature                                       | COPd          | 3.40         | -                     |
| Ti=operating limit                            | Pdh           | 3.70                                                                                                                                                               | kW            | Ti=operating limit                                            | COPd          | 3.40         | -                     |
|                                               |               |                                                                                                                                                                    |               |                                                               |               |              |                       |
| Declared capacity for heating / Colder seas   | on, at indoor |                                                                                                                                                                    |               | Declared coefficient of performance / Colde                   | r season, at  | indoor       |                       |
| temperature 20°C and outdoor temperature      | Tj            |                                                                                                                                                                    | 1             | temperature 20°C and outdoor temperature                      | Tj            |              | 1                     |
| I J=-7°C                                      | Pan<br>Dah    | -                                                                                                                                                                  | KVV           | 1j=-7°C                                                       | COPd          | -            | -                     |
| Tj=2 C                                        | Pdh           | -                                                                                                                                                                  | kW            | $T_{i}=7^{\circ}C$                                            | COPd          | -            | -                     |
| Ti=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          | -            | -                     |
|                                               |               |                                                                                                                                                                    |               |                                                               |               |              |                       |
| Bivalent temperature                          | This          | 10                                                                                                                                                                 | °c            | Operating limit temperature                                   | Tol           | 10           | <b>⊡</b> ∽            |
| heating / Warmer                              | Thiv          | -10                                                                                                                                                                | ŝ             | heating / Warmer                                              | Tol           | -10          | °C                    |
| heating / Colder                              | Tbiv          | -                                                                                                                                                                  | °C            | heating / Colder                                              | Tol           | -            | °C                    |
|                                               |               | 1                                                                                                                                                                  |               | · · · · · · ·                                                 |               | 1            | 1                     |
| Cycling interval capacity                     |               |                                                                                                                                                                    | _             | Cycling interval efficiency                                   |               |              |                       |
| for cooling                                   | Pcycc         | -                                                                                                                                                                  | kW            | for cooling                                                   | EERcyc        | -            | -                     |
| for heating                                   | Pcych         | -                                                                                                                                                                  | kW            | for heating                                                   | COPcyc        | -            | -                     |
| Degradation coofficient                       |               |                                                                                                                                                                    |               | Degradation apofficient                                       |               |              |                       |
| cooling                                       | Cdc           | 0.25                                                                                                                                                               | 1.            | heating                                                       | Cdh           | 0.25         | 1_                    |
| seeming                                       | 000           | 0.20                                                                                                                                                               |               | liounig                                                       | oun           | 0.20         |                       |
| Electric power input in power modes other t   | han 'active m | node'                                                                                                                                                              | _             | Annual electricity consumption                                |               |              |                       |
| off mode                                      | Poff          | 4                                                                                                                                                                  | W             | cooling                                                       | Qce           | 70           | kWh/a                 |
| standby mode                                  | Psb           | 4                                                                                                                                                                  | W             | heating / Average                                             | Qhe           | 754          | kWh/a                 |
| thermostat-off mode                           | Pto           | 11                                                                                                                                                                 | W             | heating / Warmer                                              | Qhe           | 774          | kWh/a                 |
|                                               | PCK           | U                                                                                                                                                                  | vv            | heating / colder                                              | Qne           | -            | KVVII/a               |
| Capacity control/indicate one of three ontion | ıs)           |                                                                                                                                                                    |               | Other items                                                   |               |              |                       |
|                                               | -7            |                                                                                                                                                                    |               | Sound power level(indoor)                                     | Lwa           | 53           | dB(A)                 |
|                                               |               |                                                                                                                                                                    |               | Sound power level(outdoor)                                    | Lwa           | 56           | dB(A)                 |
| fixed                                         | No            |                                                                                                                                                                    |               | Global warming potential                                      | GWP           | 675          | kgCO <sub>2</sub> eq. |
| staged                                        | No            |                                                                                                                                                                    |               | Rated air flow(indoor)                                        | -             | 678          | m <sup>3</sup> /h     |
| variable                                      | Yes           |                                                                                                                                                                    |               | Rated air flow(outdoor)                                       | -             | 1860         | m³/h                  |
|                                               |               |                                                                                                                                                                    |               |                                                               |               |              |                       |
| Contact details for obtaining Name an         | d address of  | the manufa                                                                                                                                                         | acturer or of | its authorised representative.                                |               |              |                       |
| more information MHIAE S                      | ERVICES B.    | V.                                                                                                                                                                 | 1104 014      | Amotordom Noth-J                                              |               |              |                       |
| Herikerbe                                     | ngweg 238,    | ∟una ArenA                                                                                                                                                         | а, 1101 CM /  | Ansterdam, Netherlands                                        |               |              |                       |
|                                               |               |                                                                                                                                                                    |               |                                                               |               |              |                       |
| <u>н</u>                                      |               |                                                                                                                                                                    |               |                                                               |               |              |                       |

### Model SRK25ZSX-W

| Information to identify the model(s) to which | the information  | relates to:            | If function includes heating: Indicate the heat               | ting season  | the          |                       |
|-----------------------------------------------|------------------|------------------------|---------------------------------------------------------------|--------------|--------------|-----------------------|
| Indoor unit model name SRK25ZSX-W             |                  |                        | information relates to. Indicated values should relate to one |              |              |                       |
| Outdoor unit model name                       | SRC25ZSX-V       | V                      | heating season at a time. Include at least the                | heating sea  | ason 'Avera  | ge'.                  |
| Function/indicate if present)                 |                  |                        | Average(mandatory)                                            | Ves          |              |                       |
| cooling                                       | Yes              |                        | Warmer(if designated)                                         | Yes          |              |                       |
| heating                                       | Yes              |                        | Colder(if designated)                                         | No           |              |                       |
|                                               |                  |                        |                                                               |              |              |                       |
| Item                                          | symbol va        | lue unit               | Item                                                          | symbol       | value        | class                 |
| Design load                                   |                  |                        | Seasonal efficiency and energy efficiency cla                 | ass          |              |                       |
| cooling                                       | Pdesignc         | 2.50 kW                | cooling                                                       | SEER         | 10.30        | A+++                  |
| heating / Average                             | Pdesignn         | 3.00 KVV               | heating / Average                                             | SCOP/A       | 5.20         | A+++                  |
| heating / Warmer                              | Pdesignin        | 4.20 KVV               | heating / Wallier                                             | SCOP/W       | 0.00         | A+++                  |
|                                               | Fuesignin        |                        | Treating / Colder                                             | 300170       |              | -<br>unit             |
| Declared capacity at outdoor temperature T    | designh          |                        | Back up heating capacity at outdoor tempera                   | ature Tdesig | nh           | dint                  |
| heating / Average (-10°C)                     | Pdh              | 3.00 kW                | heating / Average (-10°C)                                     | elbu         | 0            | kW                    |
| heating / Warmer (2°C)                        | Pdh              | 4.20 kW                | heating / Warmer (2°C)                                        | elbu         | 0            | kW                    |
| heating / Colder (-22°C)                      | Pdh              | - kW                   | heating / Colder (-22°C)                                      | elbu         | -            | kW                    |
|                                               |                  |                        | <b>- -</b>                                                    |              |              |                       |
| Declared capacity for cooling, at indoor tem  | perature 27(19)  | °C and                 | Declared energy efficiency ratio, at indoor te                | mperature 2  | 27(19)°C and |                       |
|                                               | Pdc              | 2 50 1/1/              |                                                               | EEDd         | 5.68         |                       |
| Ti=30°C                                       | Pdc              | 1.84 kW                | Ti=30°C                                                       | FERd         | 8 75         |                       |
| Ti=25°C                                       | Pdc              | 1.27 kW                | Ti=25°C                                                       | FFRd         | 14.10        | _                     |
| Ti=20°C                                       | Pdc              | 1.40 kW                | Ti=20°C                                                       | EERd         | 20.40        | -                     |
|                                               |                  | ı                      |                                                               |              |              | _                     |
| Declared capacity for heating / Average sea   | son, at indoor   |                        | Declared coefficient of performance / Average                 | je season, a | at indoor    |                       |
| temperature 20°C and outdoor temperature      | Tj               |                        | temperature 20°C and outdoor temperature                      | ſj           |              |                       |
| IJ=-7℃                                        | Pdh              | 2.61 kW                | IJ=-7°C                                                       | COPd         | 3.15         | -                     |
| IJ=∠ C                                        | Pan<br>Pdb       | 1.59 KW                | I]=2 C<br>Ti=7℃                                               | COPd         | 5.30         | -                     |
| Ti=12°C                                       | Pdh              | 0.96 k//               | Ti=12℃                                                        | COPd         | 0.00         |                       |
| Ti=bivalent temperature                       | Pdh              | 3.00 kW                | Ti=bivalent temperature                                       | COPd         | 2.69         | _                     |
| Ti=operating limit                            | Pdh              | 3.00 kW                | Ti=operating limit                                            | COPd         | 2.69         | _                     |
| ·) · · · · · · · · · · · · · · · · · ·        |                  |                        | .) operating mind                                             |              |              |                       |
| Declared capacity for heating / Warmer sea    | son, at indoor   |                        | Declared coefficient of performance / Warme                   | er season, a | it indoor    |                       |
| temperature 20°C and outdoor temperature      | Тј               |                        | temperature 20°C and outdoor temperature                      | ſj           |              |                       |
| Tj=2°C                                        | Pdh              | 4.20 kW                | Tj=2°C                                                        | COPd         | 3.30         | -                     |
| Tj=7°C                                        | Pdh              | 2.70 kW                | Tj=7°C                                                        | COPd         | 5.90         | -                     |
| I j=12°C                                      | Pdh              | 1.20 kW                | Ij=12°C                                                       | COPd         | 8.27         | -                     |
| I j=bivalent temperature                      | Pan              | 4.20 KVV               | I j=bivalent temperature                                      | COPd         | 3.30         | -                     |
|                                               | Full             | 4.20                   |                                                               | COFU         | 5.50         | -                     |
| Declared capacity for heating / Colder seas   | on. at indoor    |                        | Declared coefficient of performance / Colder                  | season, at   | indoor       |                       |
| temperature 20°C and outdoor temperature      | Tj               |                        | temperature 20°C and outdoor temperature                      | Гј           |              |                       |
| Tj=−7°C                                       | Pdh              | - kW                   | Tj=-7℃                                                        | 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         | -            | -                     |
| I j=bivalent temperature                      | Pdh              | - kVV                  | I j=bivalent temperature                                      | COPd         | -            | -                     |
| I j=operating limit                           | Pdh              | - KW                   | I j=operating limit                                           | COPd         | -            | -                     |
| TJ=-15 C                                      | Pull             | - KVV                  | IJ=-15 C                                                      | COPu         | -            | -                     |
| Bivalent temperature                          |                  |                        | Operating limit temperature                                   |              |              |                       |
| heating / Average                             | Tbiv             | -10 °C                 | heating / Average                                             | Tol          | -10          | °C                    |
| heating / Warmer                              | Tbiv             | <b>2</b> °C            | heating / Warmer                                              | Tol          | 2            | °C                    |
| heating / Colder                              | Tbiv             | - °C                   | heating / Colder                                              | Tol          | -            | °C                    |
|                                               |                  |                        |                                                               |              |              |                       |
| Cycling interval capacity                     | Davias           | 1347                   | Cycling interval efficiency                                   | <b>FFD</b>   |              |                       |
| for beating                                   | Pcycc            | - KVV                  | for beating                                                   |              |              | [                     |
|                                               | гсусп            | - KVV                  | normeating                                                    | COPCYC       | -            | -                     |
| Degradation coefficient                       |                  | ]                      | Degradation coefficient                                       |              |              |                       |
| cooling                                       | Cdc              | 0.25 -                 | heating                                                       | Cdh          | 0.25         | _                     |
|                                               |                  |                        |                                                               |              | ·            |                       |
| Electric power input in power modes other t   | han 'active mod  | e'                     | Annual electricity consumption                                |              |              |                       |
| off mode                                      | Poff             | 4 W                    | cooling                                                       | Qce          | 85           | kWh/a                 |
| standby mode                                  | Psb              | 4 W                    | heating / Average                                             | Qhe<br>Oh-   | 808          | kWh/a                 |
| thermostat-off mode                           | Pto              | 11 VV                  | heating / warmer                                              | Qne          | 891          | kwn/a                 |
|                                               | IFUN             | J VV                   |                                                               |              |              | KVVI/d                |
| Capacity control(indicate one of three option | ns)              |                        | Other items                                                   |              |              |                       |
|                                               | ,                |                        | Sound power level(indoor)                                     | Lwa          | 55           | dB(A)                 |
|                                               |                  |                        | Sound power level(outdoor)                                    | Lwa          | 57           | dB(A)                 |
| fixed                                         | No               |                        | Global warming potential                                      | GWP          | 675          | kgCO <sub>2</sub> eq. |
| staged                                        | No               |                        | Rated air flow(indoor)                                        | -            | 732          | m <sup>3</sup> /h     |
| variable                                      | Yes              |                        | Rated air flow(outdoor)                                       | _            | 1860         | m <sup>3</sup> /h     |
|                                               | 100              |                        |                                                               |              |              |                       |
| Contact details for obtaining Name an         | d address of the | e manufacturer or of i | its authorised representative.                                |              |              |                       |
| more information MHIAE S                      | ERVICES B.V.     |                        |                                                               |              |              |                       |
| Herikerbe                                     | ergweg 238, Lun  | na ArenA, 1101 CM A    | Amsterdam, Netherlands                                        |              |              |                       |
|                                               |                  |                        |                                                               |              |              |                       |
| L                                             |                  |                        |                                                               |              |              |                       |

### Model SRK35ZSX-W

| Information to identify the model(s) to which | the informat                          | ion relates t    | :0:          | If function includes heating: Indicate the heat                 | ting season        | the          |                       |
|-----------------------------------------------|---------------------------------------|------------------|--------------|-----------------------------------------------------------------|--------------------|--------------|-----------------------|
| Indoor unit model name                        | SRK35ZS                               | X-W              |              | Information relates to. Indicated values should be at least the | ld relate to o     | one          | ae'                   |
|                                               | 31033232                              | ~~~              |              | heading season at a time. Include at least the                  | e neating se       |              | ye.                   |
| 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                                   | e y mooi                              | Value            | unit         | Seasonal efficiency and energy efficiency cla                   | ass                | Value        | 0.000                 |
| cooling                                       | Pdesignc                              | 3.50             | kW           | cooling                                                         | SEER               | 9.50         | A+++                  |
| heating / Average                             | Pdesignh                              | 3.40             | kW           | heating / Average                                               | SCOP/A             | 5.10         | A+++                  |
| heating / Warmer                              | Pdesignh                              | 4.70             | KVV          | heating / Warmer                                                | SCOP/W             | 6.50         | A+++                  |
| neating / Colder                              | Puesignin                             | -                | KVV          | Treating / Colder                                               | 300P/0             | -            | -<br>unit             |
| Declared capacity at outdoor temperature T    | designh                               |                  |              | Back up heating capacity at outdoor tempera                     | ature Tdesig       | Inh          | dint                  |
| heating / Average (-10°C)                     | Pdh                                   | 3.40             | kW           | heating / Average (-10°C)                                       | elbu               | 0            | kW                    |
| heating / Warmer (2°C)                        | Pdh                                   | 4.70             | kW           | heating / Warmer (2°C)                                          | elbu               | 0            | kW                    |
| heating / Colder (-22°C)                      | Pan                                   | -                | KVV          | neating / Colder (-22°C)                                        | elbu               | -            | KVV                   |
| Declared capacity for cooling, at indoor tem  | perature 27(                          | 19)°C and        |              | Declared energy efficiency ratio, at indoor te                  | mperature 2        | 27(19)°C and | 1                     |
| outdoor temperature Tj                        | · · · · · · · · · · · · · · · · · · · | -,               |              | outdoor temperature Tj                                          |                    | ( - )        |                       |
| Tj=35°C                                       | Pdc                                   | 3.50             | kW           | Tj=35°C                                                         | EERd               | 4.73         | -                     |
| Tj=30°C                                       | Pdc                                   | 2.58             | kW           | Tj=30°C                                                         | EERd               | 7.29         | -                     |
| Ij=25℃<br>Ti=20℃                              | Pdc<br>Pdc                            | 1.66             | KW KW        | Ij=25℃<br>Ti=20℃                                                | EERd               | 12.43        | -                     |
| 1 200                                         | 1 46                                  | 1.50             |              |                                                                 |                    | 13.00        | l                     |
| Declared capacity for heating / Average sea   | son, at indoo                         | or               |              | Declared coefficient of performance / Average                   | ge season, a       | at indoor    |                       |
| temperature 20°C and outdoor temperature      | Tj                                    |                  |              | temperature 20°C and outdoor temperature                        | Tj                 |              |                       |
| I J=-7°C                                      | Pdh                                   | 2.95             | κW           | IJ=-7°C                                                         | COPd               | 3.10         | -                     |
| Tj=2 C<br>Ti=7℃                               | ran<br>Pdb                            | 1./7             | κνν<br>kW    | Ti=2°C                                                          | COPd               | 5.18         | -                     |
| Ti=12°C                                       | Pdh                                   | 1.00             | kW           | Ti=12°C                                                         | COPd               | 8.10         |                       |
| Tj=bivalent temperature                       | Pdh                                   | 3.40             | kW           | Tj=bivalent temperature                                         | COPd               | 2.61         | -                     |
| Tj=operating limit                            | Pdh                                   | 3.40             | kW           | Tj=operating limit                                              | COPd               | 2.61         | -                     |
|                                               |                                       |                  |              |                                                                 |                    |              |                       |
| temperature 20°C and outdoor temperature      | son, at indoc<br>Ti                   | ſ                |              | temperature 20°C and outdoor temperature                        | er season, a<br>Ti | at indoor    |                       |
| Tj=2°C                                        | Pdh                                   | 4.70             | kW           | Ti=2°C                                                          | COPd               | 3.10         | -                     |
| Tj=7℃                                         | Pdh                                   | 3.00             | kW           | Tj=7℃                                                           | COPd               | 5.80         | -                     |
| Tj=12°C                                       | Pdh                                   | 1.30             | kW           | Tj=12°C                                                         | COPd               | 8.20         | -                     |
| Tj=bivalent temperature                       | Pdh                                   | 4.70             | kW           | Tj=bivalent temperature                                         | COPd               | 3.10         | -                     |
| I j=operating limit                           | Pan                                   | 4.70             | KVV          | I j=operating limit                                             | COPa               | 3.10         | -                     |
| Declared capacity for heating / Colder seaso  | on, at indoor                         |                  |              | Declared coefficient of performance / Colder                    | season, at         | indoor       |                       |
| temperature 20°C and outdoor temperature      | Tj                                    |                  |              | temperature 20°C and outdoor temperature                        | тј                 |              |                       |
| Tj=-7°C                                       | Pdh                                   | -                | kW           | Tj=-7°C                                                         | COPd               | -            | -                     |
| Tj=2°C                                        | Pdh                                   | -                | kW           | Tj=2°C                                                          | COPd               | -            | -                     |
| j=/ <sup>2</sup> C                            | Pan<br>Pab                            | -                | KVV<br>KVV   | IJ=7℃<br>Ti=12℃                                                 | COPd               | -            | -                     |
| Ti=bivalent temperature                       | Pdh                                   | -                | kW           | Ti=bivalent temperature                                         | COPd               | -            | _                     |
| Tj=operating limit                            | Pdh                                   | -                | kW           | Tj=operating limit                                              | COPd               | -            | -                     |
| Tj=-15°C                                      | Pdh                                   | -                | kW           | Tj=-15℃                                                         | COPd               | -            | -                     |
|                                               |                                       |                  |              |                                                                 |                    |              |                       |
| Bivalent temperature                          | Thiv                                  | -10              | °C           | Operating limit temperature                                     | Tol                | -10          | °C                    |
| heating / Warmer                              | Tbiv                                  | 2                | ŝ            | heating / Warmer                                                | Tol                | 2            | °C                    |
| heating / Colder                              | Tbiv                                  | -                | °C           | heating / Colder                                                | Tol                | -            | °C                    |
|                                               |                                       |                  |              |                                                                 |                    |              |                       |
| Cycling interval capacity                     | Poves                                 |                  | K/M/         | Cycling interval efficiency                                     | EEDovo             | <b></b>      |                       |
| for heating                                   | Povch                                 | -                | kW           | for heating                                                     |                    | -            |                       |
| lor neuting                                   | royon                                 |                  |              | loi ricullig                                                    | 001 090            |              |                       |
| Degradation coefficient                       |                                       | -                |              | Degradation coefficient                                         |                    | -            |                       |
| cooling                                       | Cdc                                   | 0.25             | -            | heating                                                         | Cdh                | 0.25         | -                     |
| Electric power input in power modes other th  | an 'antivo m                          | odo'             |              | Annual electricity consumption                                  |                    |              |                       |
| off mode                                      | Poff                                  | 4                | w            | cooling                                                         | Qce                | 129          | kWh/a                 |
| standby mode                                  | Psb                                   | 4                | w            | heating / Average                                               | Qhe                | 934          | kWh/a                 |
| thermostat-off mode                           | Pto                                   | 11               | w            | heating / Warmer                                                | Qhe                | 1013         | kWh/a                 |
| crankcase heater mode                         | Pck                                   | 0                | W            | heating / colder                                                | Qhe                | -            | kWh/a                 |
| Capacity control/indicate one of three entire | 16)                                   |                  |              | Other items                                                     |                    |              |                       |
| Sapacity control(indicate one of three option | 13)                                   |                  |              | Sound power level(indoor)                                       | Lwa                | 58           | dB(A)                 |
|                                               | _                                     |                  |              | Sound power level(outdoor)                                      | Lwa                | 61           | dB(A)                 |
| fixed                                         | No                                    |                  |              | Global warming potential                                        | GWP                | 675          | kgCO <sub>2</sub> eq. |
| staged                                        | No                                    |                  |              | Rated air flow(indoor)                                          | -                  | 786          | m³/h                  |
| variable                                      | Yes                                   |                  |              | Rated air flow(outdoor)                                         | -                  | 2160         | m³/h                  |
|                                               |                                       |                  |              |                                                                 |                    |              |                       |
| Contact details for obtaining Name and        | d address of                          | the manufa       | cturer or of | its authorised representative.                                  |                    |              |                       |
| MHIAE SI<br>Herikerbe                         | rawea 238 I                           | v.<br>∟una Aren∆ | . 1101 CM 4  | Amsterdam, Netherlands                                          |                    |              |                       |
|                                               |                                       |                  | ,            |                                                                 |                    |              |                       |
|                                               |                                       |                  |              |                                                                 |                    |              |                       |
|                                               |                                       |                  |              | r                                                               |                    |              |                       |

### Model SRK50ZSX-W

| Information to identify the model(s) to which | the information relates to:                                              |              | If function includes heating: Indicate the heat                  | ing season    | the          |                       |
|-----------------------------------------------|--------------------------------------------------------------------------|--------------|------------------------------------------------------------------|---------------|--------------|-----------------------|
| Indoor unit model name                        | SRK50ZSX-W                                                               |              | information relates to. Indicated values shou                    | d relate to c | one          |                       |
| Outdoor unit model name                       | heating season at a time. Include at least the heating season 'Average'. |              |                                                                  |               |              |                       |
|                                               |                                                                          |              | A                                                                | Vee           |              |                       |
| Function(indicate if present)                 | Vac                                                                      |              | Average(mandatory)                                               | Yes           |              |                       |
| beating                                       | Vos                                                                      |              | Colder/if designated)                                            | No            |              |                       |
| neaung                                        | 163                                                                      |              |                                                                  | NO            |              |                       |
| Item                                          | symbol value ur                                                          | nit          | Item                                                             | symbol        | value        | class                 |
| Design load                                   | ·                                                                        |              | Seasonal efficiency and energy efficiency cla                    | ass           |              |                       |
| cooling                                       | Pdesignc 5.00 k                                                          | W            | cooling                                                          | SEER          | 8.30         | A++                   |
| heating / Average                             | Pdesignh 4.50 k                                                          | W            | heating / Average                                                | SCOP/A        | 4.70         | A++                   |
| heating / Warmer                              | Pdesignh 6.00 k                                                          | W            | heating / Warmer                                                 | SCOP/W        | 5.90         | A+++                  |
| heating / Colder                              | Pdesignh - k                                                             | W            | heating / Colder                                                 | SCOP/C        | -            | -                     |
| Declared conscitute at outdoor temperature T  | laajaah                                                                  |              | Deals up heating conseits at autidear tempera                    | turo Tdooig   |              | unit                  |
| beating / Average ( $-10^{\circ}$ C)          | Pdb <b>450</b> k                                                         | M/           | back up realing capacity at outdoor temperative $(-10^{\circ}C)$ |               | 0            | k/W                   |
| heating / Warmer (2°C)                        | Pdb 6.00 kl                                                              | ww.          | heating / Warmer (2°C)                                           | elbu          | 0            | kW                    |
| heating / Colder (-22°C)                      | Pdh - k\                                                                 | Ŵ            | heating / Colder (-22°C)                                         | elbu          | -            | kW                    |
|                                               | I                                                                        |              |                                                                  |               |              |                       |
| Declared capacity for cooling, at indoor tem  | perature 27(19)°C and                                                    |              | Declared energy efficiency ratio, at indoor te                   | mperature 2   | 27(19)°C and | 1                     |
| outdoor temperature Tj                        |                                                                          |              | outdoor temperature Tj                                           |               | ·            |                       |
| Tj=35°C                                       | Pdc 5.00 k\                                                              | W            | Tj=35°C                                                          | EERd          | 4.10         | -                     |
| Tj=30°C                                       | Pdc 3.70 k                                                               | W            | Tj=30°C                                                          | EERd          | 5.90         | -                     |
| Tj=25°C                                       | Pdc 2.40 k                                                               | W            | Tj=25°C                                                          | EERd          | 9.90         | -                     |
| IJ=20°C                                       | Pac 1.50 k\                                                              | VV           | 1j=20°C                                                          | EERd          | 18.20        | -                     |
| Declared capacity for heating / Average coo   | son at indoor                                                            | 1            | Declared coefficient of performance / Avorage                    | 10 603600 ·   | at indoor    |                       |
| temperature 20°C and outdoor temperature      | Ti                                                                       |              | temperature 20°C and outdoor temperature 1                       | ie season, e  |              |                       |
| Tj=-7°C                                       | Pdh 3.98 k\                                                              | w            | Tj=-7°C                                                          | COPd          | 3.30         | _                     |
| Tj=2°C                                        | Pdh 2.42 k\                                                              | w            | Tj=2°C                                                           | COPd          | 4.64         | _                     |
| Tj=7°C                                        | Pdh 1.56 k\                                                              | w            | Tj=7°C                                                           | COPd          | 5.64         | -                     |
| Tj=12°C                                       | Pdh 1.06 k\                                                              | w            | Tj=12°C                                                          | COPd          | 7.20         | -                     |
| Tj=bivalent temperature                       | Pdh 4.50 k\                                                              | W            | Tj=bivalent temperature                                          | COPd          | 2.64         | -                     |
| Tj=operating limit                            | Pdh 4.50 k\                                                              | W            | Tj=operating limit                                               | COPd          | 2.64         | -                     |
|                                               |                                                                          |              |                                                                  |               |              |                       |
| Declared capacity for heating / Warmer sea    | son, at indoor                                                           |              | Declared coefficient of performance / Warme                      | er season, a  | it indoor    |                       |
| temperature 20 C and outdoor temperature      | IJ<br>Ddb <b>600</b> kl                                                  | A/           | temperature 20 C and outdoor temperature                         | J<br>COD4     | 2.01         |                       |
| Tj-2 C                                        | Pull 0.00 k                                                              | VV           | Tj-2 C                                                           | COPd          | 5.01         | -                     |
| Tj=7 ℃<br>Ti=12℃                              | Pdh <b>1.70</b> kl                                                       | W            | Ti=12°C                                                          | COPd          | 7 20         |                       |
| Ti=hivalent temperature                       | Pdb 600 kl                                                               | ww.          | Ti=bivalent temperature                                          | COPd          | 3.01         |                       |
| Ti=operating limit                            | Pdh 6.00 k\                                                              | Ŵ            | Ti=operating limit                                               | COPd          | 3.01         | _                     |
| ,                                             |                                                                          |              | ,                                                                |               |              |                       |
| Declared capacity for heating / Colder seaso  | on, at indoor                                                            |              | Declared coefficient of performance / Colder                     | season, at    | indoor       |                       |
| temperature 20°C and outdoor temperature      | Tj                                                                       |              | temperature 20°C and outdoor temperature 7                       | ï             |              |                       |
| Tj=-7°C                                       | Pdh - k\                                                                 | W            | Tj=-7℃                                                           | COPd          | -            | -                     |
| Tj=2°C                                        | Pdh - k\                                                                 | W            | Tj=2°C                                                           | COPd          | -            | -                     |
| Tj=7°C                                        | Pdh - k\                                                                 | W            | Tj=7°C                                                           | COPd          | -            | -                     |
| Tj=12°C                                       | Pdh - k\                                                                 | W            | Tj=12°C                                                          | COPd          | -            | -                     |
| Ij=bivalent temperature                       | Pdh - k                                                                  | W            | Ij=bivalent temperature                                          | COPd          | -            | -                     |
| I j=operating limit                           | Pdh - k\                                                                 | VV           | Ij=operating limit                                               | COPd          | -            | -                     |
| 1j=-15 C                                      | Full - Ki                                                                | vv           | 1j15 C                                                           | COFU          | -            | -                     |
| Bivalent temperature                          |                                                                          |              | Operating limit temperature                                      |               |              |                       |
| heating / Average                             | Tbiv -10 °C                                                              | <b>b</b>     | heating / Average                                                | Tol           | -10          | °C                    |
| heating / Warmer                              | Tbiv 2 °C                                                                | 2            | heating / Warmer                                                 | Tol           | 2            | °C                    |
| heating / Colder                              | Tbiv - °C                                                                | >            | heating / Colder                                                 | Tol           | -            | °C                    |
|                                               |                                                                          |              |                                                                  |               |              |                       |
| Cycling interval capacity                     |                                                                          |              | Cycling interval efficiency                                      | <b>FED</b>    |              |                       |
| for beating                                   | Poyce - K                                                                | vv<br>M      | for beating                                                      |               | <u> </u>     | _                     |
| lor heating                                   |                                                                          | vv           | loi neating                                                      | COFLYC        | -            | -                     |
| Degradation coefficient                       |                                                                          |              | Degradation coefficient                                          |               |              |                       |
| cooling                                       | Cdc 0.25 -                                                               |              | heating                                                          | Cdh           | 0.25         | -                     |
|                                               |                                                                          |              |                                                                  |               |              |                       |
| Electric power input in power modes other th  | an 'active mode'                                                         | ,            | Annual electricity consumption                                   | 0.            | <b>0</b> 44  | 1.3.4/1. /            |
| on mode                                       | POIT 4 W                                                                 | v            | cooling                                                          | QCe<br>Obe    | 211          | kWh/a                 |
| thermostat off mode                           | Pto 42 W                                                                 | v<br>./      | heating / Average                                                | Obe           | 1341         | kWh/a                 |
| crankcase heater mode                         |                                                                          | /            | heating / colder                                                 | Ohe           | 1420         | kWh/a                 |
|                                               | V W                                                                      | -            |                                                                  | A             | I            |                       |
| Capacity control(indicate one of three option | s)                                                                       |              | Other items                                                      |               |              |                       |
|                                               |                                                                          |              | Sound power level(indoor)                                        | Lwa           | 59           | dB(A)                 |
|                                               |                                                                          |              | Sound power level(outdoor)                                       | Lwa           | 63           | dB(A)                 |
| fixed                                         | No                                                                       |              | Global warming potential                                         | GWP           | 675          | kgCO <sub>2</sub> eq. |
| staged                                        | No                                                                       |              | Rated air flow(indoor)                                           | -             | 858          | m <sup>3</sup> /h     |
| variable                                      | Yes                                                                      |              | Rated air flow(outdoor)                                          | -             | 2340         | m <sup>3</sup> /h     |
|                                               |                                                                          |              |                                                                  |               |              |                       |
| Contact details for obtaining Name and        | d address of the manufactu                                               | urer or of i | ts authorised representative.                                    |               |              |                       |
| more information MHIAE SI                     | ERVICES B.V.                                                             |              |                                                                  |               |              |                       |
| Herikerbe                                     | rgweg 238, Luna ArenA, 1                                                 | 101 CM A     | msterdam, Netherlands                                            |               |              |                       |
|                                               |                                                                          |              |                                                                  |               |              |                       |
| L                                             |                                                                          |              |                                                                  |               |              |                       |
## Model SRK50ZSX-W

| Information to identify the model(s) to which | ch the information | on relates to: |               | If function includes heating: Indicate the heat  | ing season t   | he           |            |
|-----------------------------------------------|--------------------|----------------|---------------|--------------------------------------------------|----------------|--------------|------------|
| Indoor unit model name                        | SRK50ZS>           | (-W            |               | information relates to. Indicated values shoul   | d relate to or | ne           |            |
| Outdoor unit model name                       | SRC50ZS)           | (-W1           |               | heating season at a time. Include at least the   | heating sea    | ison 'Averag | e'.        |
| Eurotion/indicate if present)                 |                    |                |               | A. (araga(mandatan))                             | Vee            |              |            |
|                                               | Vee                |                |               | Average(mandatory)                               | Yee            |              |            |
| beating                                       | Yes                |                |               | Colder(if designated)                            | No             |              |            |
| neating                                       | 163                |                |               | Colder (II designated)                           | NU             |              |            |
| Item                                          | symbol             | value          | unit          | Item                                             | symbol         | value        | class      |
| Design load                                   |                    |                |               | Seasonal efficiency and energy efficiency cla    | ss             |              |            |
| cooling                                       | Pdesignc           | 5.00           | kW            | cooling                                          | SEER           | 8.30         | A++        |
| heating / Average                             | Pdesignh           | 4.50           | kW            | heating / Average                                | SCOP/A         | 4.70         | A++        |
| heating / Warmer                              | Pdesignh           | 6.00           | kW            | heating / Warmer                                 | SCOP/W         | 5.90         | A+++       |
| heating / Colder                              | Pdesignh           | -              | kW            | heating / Colder                                 | SCOP/C         | -            | -          |
|                                               |                    |                |               |                                                  |                |              | unit       |
| Declared capacity at outdoor temperature      | Tdesignh           |                |               | Back up heating capacity at outdoor tempera      | ture Tdesigr   | 1h           |            |
| heating / Average (-10°C)                     | Pdh                | 4.50           | kW            | heating / Average (-10°C)                        | elbu           | 0            | kW         |
| heating / Warmer (2°C)                        | Pdh                | 6.00           | kW            | heating / Warmer (2°C)                           | elbu           | 0            | kW         |
| heating / Colder (-22°C)                      | Pan                | -              | KVV           | heating / Colder (-22°C)                         | elbu           | -            | KVV        |
| Declared conseity for easing, at indeer to    | magnatura 27/1     | 0)°C and       |               | Declared operation officiancy ratio at indeer to | mooratura 2    | 7(10)°C and  |            |
| Declared capacity for cooling, at indoor ter  | inperature 27(1    | 9) C anu       |               | outdoor temperature Ti                           | iiperature zi  | (19) C anu   |            |
| Ti=35°C                                       | Pdc                | 5.00           | k\W           | Ti=35°C                                          | FERd           | 4 10         | 1.         |
| Ti=30°C                                       | Pdc                | 3 70           | kW/           | Ti=30°C                                          | FERd           | 5.90         |            |
| Ti=25°C                                       | Pdc                | 2.40           | kW            | Ti=25°C                                          | FERd           | 9.90         |            |
| Ti=20°C                                       | Pdc                | 1.50           | kW/           | Ti=20°C                                          | FERd           | 18 20        | _          |
| .,                                            | 1 40               | 1.00           |               | ., _, _, _,                                      |                | 10.20        |            |
| Declared capacity for heating / Average se    | eason, at indoor   |                |               | Declared coefficient of performance / Average    | e season. at   | indoor       |            |
| temperature 20°C and outdoor temperatur       | е Тј               |                |               | temperature 20°C and outdoor temperature T       | ]              |              |            |
| Tj=-7℃                                        | Pdh                | 3.98           | kW            | Tj=-7°C                                          | COPd           | 3.30         | -          |
| Tj=2°C                                        | Pdh                | 2.42           | kW            | Tj=2°C                                           | COPd           | 4.64         | -          |
| Tj=7°C                                        | Pdh                | 1.56           | kW            | Tj=7°C                                           | COPd           | 5.64         | -          |
| Tj=12°C                                       | Pdh                | 1.06           | kW            | Tj=12°C                                          | COPd           | 7.20         | -          |
| Tj=bivalent temperature                       | Pdh                | 4.50           | kW            | Tj=bivalent temperature                          | COPd           | 2.64         | -          |
| Tj=operating limit                            | Pdh                | 4.50           | kW            | Tj=operating limit                               | COPd           | 2.64         | -          |
|                                               |                    |                |               |                                                  |                |              |            |
| Declared capacity for heating / Warmer se     | eason, at indoor   |                |               | Declared coefficient of performance / Warme      | r season, at   | indoor       |            |
| temperature 20°C and outdoor temperatur       | e Tj               |                |               | temperature 20°C and outdoor temperature T       | ]              |              | ,          |
| Ij=2°C                                        | Pdh                | 6.00           | kW            | IJ=2°C                                           | COPd           | 3.01         | -          |
| Tj=7°C                                        | Pdh                | 3.90           | kW            | Tj=7°C                                           | COPd           | 5.35         | -          |
| Tj=12°C                                       | Pdh                | 1.70           | kW            | Tj=12°C                                          | COPd           | 7.20         | -          |
| Tj=bivalent temperature                       | Pdh                | 6.00           | kW            | Tj=bivalent temperature                          | COPd           | 3.01         | -          |
| I j=operating limit                           | Pan                | 6.00           | KVV           | I j=operating limit                              | COPd           | 3.01         | -          |
| Declared capacity for heating / Colder sea    | son at indoor      |                |               | Declared coefficient of performance / Colder     | season at i    | ndoor        |            |
| temperature 20°C and outdoor temperature      | e Ti               |                |               | temperature 20°C and outdoor temperature T       | 'i             | 10001        |            |
| Ti=-7°C                                       | Pdh                | - 1            | kW            | Ti=-7°C                                          | COPd           | -            | 1-         |
| Ti=2°C                                        | Pdh                | -              | kW            | Ti=2°C                                           | COPd           | -            | -          |
| Ti=7°C                                        | Pdh                | -              | kW            | Ti=7°C                                           | COPd           | -            | -          |
| Ti=12°C                                       | Pdh                | -              | kW            | Ti=12℃                                           | COPd           | -            | -          |
| Tj=bivalent temperature                       | Pdh                | - 1            | kW            | Tj=bivalent temperature                          | COPd           | -            | -          |
| Tj=operating limit                            | Pdh                | - 1            | kW            | Tj=operating limit                               | COPd           | -            | -          |
| Tj=-15℃                                       | Pdh                | - 1            | kW            | Tj=-15℃                                          | COPd           | -            | -          |
|                                               |                    |                |               |                                                  |                |              |            |
| Bivalent temperature                          |                    |                |               | Operating limit temperature                      |                |              | 1.         |
| heating / Average                             | Tbiv               | -10            | °C            | heating / Average                                | Tol            | -10          | °C         |
| heating / Warmer                              | Tbiv               | 2              | °C            | heating / Warmer                                 | Tol            | 2            | °C         |
| heating / Colder                              | Tbiv               | <u> </u> -     | Ĵ             | heating / Colder                                 | Tol            | <u> </u> -   | Ĵ          |
| Cycling interval capacity                     |                    |                |               | Cycling interval efficiency                      |                |              |            |
| for cooling                                   | Prvcc              |                | kW            | for cooling                                      | FERovo         | -            | 1 <u> </u> |
| for heating                                   | Poyce              |                | kW            | for heating                                      | COPeve         | <u> </u>     |            |
| lor neuting                                   | r byon             |                |               | loi neuting                                      | 001 090        |              |            |
| Degradation coefficient                       |                    |                |               | Degradation coefficient                          |                |              |            |
| cooling                                       | Cdc                | 0.25           | -             | heating                                          | Cdh            | 0.25         | -          |
|                                               |                    |                |               |                                                  |                |              |            |
| Electric power input in power modes other     | than 'active mo    | de'            |               | Annual electricity consumption                   | ~              |              |            |
| off mode                                      | Potf               | 4              | VV            | cooling                                          | Qce            | 211          | kWh/a      |
| stanuby mode                                  | PSD<br>Dt-         | 4              | VV            | heating / Average                                | Qne            | 1341         | KVVN/a     |
|                                               | PIO<br>Dela        | 12             | v v<br>\\\/   | heating / warmer                                 | Qhe            | 1425         | kW/h/a     |
|                                               | PCK                | U              | ٧V            | neating / colder                                 | QIIE           | ı -          | kvvn/a     |
| Canacity control/indicate one of three onti   | ons)               |                |               | Other items                                      |                |              |            |
|                                               |                    |                |               | Sound power level(indoor)                        | Lwa            | 59           | dB(A)      |
|                                               |                    |                |               | Sound power level(outdoor)                       | Lwa            | 63           | dB(A)      |
| fixed                                         | No                 |                |               | Global warming potential                         | GWP            | 675          | kaCO_ea    |
| atogod                                        | N-                 |                |               | Deted air flow/indees)                           | 0.11           | 0.0          |            |
| slayeu                                        | NO                 |                |               |                                                  | -              | 858          |            |
| variable                                      | Yes                |                |               | Rated air flow(outdoor)                          | -              | 2340         | m˘/h       |
| Contact details for obtaining                 | and address of     | the manufact   | turer or of H | s authorised representative                      |                |              |            |
| more information                              | SERVICES B \       |                |               | o autionocu representative.                      |                |              |            |
| Heriker                                       | bergweg 238. L     | una ArenA      | 1101 CM A     | msterdam, Netherlands                            |                |              |            |
|                                               | J - J, E           |                |               |                                                  |                |              |            |
|                                               |                    |                |               |                                                  |                |              |            |

# Model SRK50ZSX-W

| Information to identify the model(s) to wh                        | ich the information relates to: |              | If function includes heating: Indicate the heat            | ting season        | the                       |
|-------------------------------------------------------------------|---------------------------------|--------------|------------------------------------------------------------|--------------------|---------------------------|
| Indoor unit model name                                            | SRK50ZSX-W                      |              | information relates to. Indicated values shou              | Id relate to       | one                       |
| Outdoor unit model name                                           | SRC50ZSX-W2                     |              | heating season at a time. Include at least the             | e heating se       | ason 'Average'.           |
| Function(indicate if present)                                     |                                 |              | Average(mandatony)                                         | Ves                |                           |
| cooling                                                           | Yes                             |              | Warmer(if designated)                                      | Yes                |                           |
| heating                                                           | Yes                             |              | Colder(if designated)                                      | No                 |                           |
| - C                                                               |                                 |              |                                                            |                    |                           |
| Item                                                              | symbol value ur                 | nit          | Item                                                       | symbol             | value class               |
| Design load                                                       |                                 |              | Seasonal efficiency and energy efficiency cl               | ass                |                           |
| cooling                                                           | Pdesignc 5.00 kV                | N            | cooling                                                    | SEER               | 8.30 A++                  |
| heating / Warmer                                                  | Pdesignh 6.00 kl                | N            | heating / Warmer                                           | SCOP/M             | 4.70 A++<br>5 90 Δ+++     |
| heating / Colder                                                  | Pdesignh - kV                   | Ň            | heating / Colder                                           | SCOP/C             |                           |
|                                                                   | i doolgiini                     |              | liounig, coluci                                            | 000170             | unit                      |
| Declared capacity at outdoor temperature                          | e Tdesignh                      |              | Back up heating capacity at outdoor temper                 | ature Tdesig       | Inh                       |
| heating / Average (-10°C)                                         | Pdh 4.50 kV                     | N            | heating / Average (-10°C)                                  | elbu               | 0 kW                      |
| heating / Warmer (2°C)                                            | Pdh 6.00 kV                     | N            | heating / Warmer (2°C)                                     | elbu               | <b>0</b> kW               |
| heating / Colder (-22°C)                                          | Pdh - kV                        | N            | heating / Colder (-22°C)                                   | elbu               | - kW                      |
| Declared capacity for cooling, at indeer to                       | amperature 27(10)°C and         |              | Declared energy efficiency ratio, at index to              | moerature          | 27(10)°C and              |
| outdoor temperature Ti                                            | sinperature 27 (19) C and       |              | outdoor temperature Ti                                     |                    | 27(19) C and              |
| Tj=35℃                                                            | Pdc 5.00 kV                     | N            | Ti=35℃                                                     | EERd               | 4.10 -                    |
| Tj=30°C                                                           | Pdc 3.70 kV                     | N            | Tj=30°C                                                    | EERd               | 5.90 -                    |
| Tj=25°C                                                           | Pdc 2.40 kV                     | N            | Tj=25°C                                                    | EERd               | 9.90 -                    |
| Tj=20°C                                                           | Pdc 1.50 kV                     | N            | Tj=20°C                                                    | EERd               | 18.20 -                   |
|                                                                   | anna ati-d                      |              | Declared apofficiant of part                               |                    | atindaar                  |
| Deciared capacity for heating / Average s                         | season, at indoor               |              | Deciared coefficient of performance / Avera                | ge season, a<br>Ti | at Indoor                 |
| Ti=-7°C                                                           | Pdh 3.98 4                      | N            | Ti=-7°C                                                    | U<br>COPd          | 3.30 -                    |
| Ti=2°C                                                            | Pdh 2.42 kl                     | N            | Ti=2°C                                                     | COPd               | 4.64                      |
| Tj=7°C                                                            | Pdh <b>1.56</b> kV              | Ň            | Tj=7°C                                                     | COPd               | 5.64 -                    |
| Tj=12°C                                                           | Pdh 1.06 kV                     | N            | Tj=12°C                                                    | COPd               | 7.20 -                    |
| Tj=bivalent temperature                                           | Pdh 4.50 kV                     | N            | Tj=bivalent temperature                                    | COPd               | 2.64 -                    |
| Tj=operating limit                                                | Pdh 4.50 kV                     | N            | Tj=operating limit                                         | COPd               | 2.64 -                    |
|                                                                   |                                 |              |                                                            |                    |                           |
| Declared capacity for heating / Warmer s                          | eason, at indoor                |              | Declared coefficient of performance / Warm                 | er season, a<br>T: | at indoor                 |
| temperature 20 C and outdoor temperature $20 \text{ C}$           | .re Ij<br>Pdb <b>600</b> kl     | A/           | temperature 20 C and outdoor temperature $Ti-2^{\circ}C$   | IJ<br>COPd         | 3.01                      |
| Ti=7°C                                                            | Pdh 3.90 kV                     | N            | Ti=7°C                                                     | COPd               | 5.35                      |
| Ti=12°C                                                           | Pdh 1.70 kV                     | N            | Ti=12°C                                                    | COPd               | 7.20 -                    |
| Tj=bivalent temperature                                           | Pdh 6.00 kV                     | Ň            | Ti=bivalent temperature                                    | COPd               | 3.01 -                    |
| Tj=operating limit                                                | Pdh 6.00 kV                     | N            | Tj=operating limit                                         | COPd               | 3.01 -                    |
|                                                                   |                                 |              | -                                                          |                    |                           |
| Declared capacity for heating / Colder se                         | ason, at indoor                 |              | Declared coefficient of performance / Colde                | r season, at       | indoor                    |
| temperature 20°C and outdoor temperature $T_{1-}$ $T_{2}^{\circ}$ | re Ij<br>Pdb                    | A/           | temperature 20°C and outdoor temperature $T_{i-7}^{\circ}$ | IJ<br>COPd         |                           |
| Ti=2°C                                                            | Pdh - kV                        | N            | Tj=-7 C                                                    | COPd               |                           |
| Ti=7°C                                                            | Pdh - kV                        | Ň            | Ti=7°C                                                     | COPd               |                           |
| Tj=12℃                                                            | Pdh - kV                        | N            | Ti=12℃                                                     | COPd               |                           |
| Tj=bivalent temperature                                           | Pdh - kV                        | N            | Tj=bivalent temperature                                    | COPd               |                           |
| Tj=operating limit                                                | Pdh - kV                        | N            | Tj=operating limit                                         | COPd               |                           |
| Tj=-15°C                                                          | Pdh - kV                        | N            | Tj=−15°C                                                   | COPd               |                           |
|                                                                   |                                 |              |                                                            |                    |                           |
| Bivalent temperature                                              | Thiv <b>10</b> °C               |              | Operating limit temperature                                | Tol                | <b>10</b> °C              |
| heating / Warmer                                                  | Thiv -10 C                      | ,            | heating / Warmer                                           | Tol                | -10 C                     |
| heating / Colder                                                  | Tbiv - °C                       | 2            | heating / Colder                                           | Tol                | - °C                      |
|                                                                   | I~I~                            |              | · · · · · · · · · · · · · · · · · · ·                      |                    |                           |
| Cycling interval capacity                                         |                                 |              | Cycling interval efficiency                                |                    |                           |
| for cooling                                                       | Pcycc - kV                      | N            | for cooling                                                | EERcyc             | <u>⊢ - </u> ⊦             |
| for heating                                                       | Pcych - kV                      | N            | for heating                                                | COPcyc             |                           |
| Degradation coefficient                                           |                                 |              | Degradation coefficient                                    |                    |                           |
| cooling                                                           | Cdc 0.25 -                      |              | heating                                                    | Cdh                | 0.25 -                    |
|                                                                   |                                 |              |                                                            |                    |                           |
| Electric power input in power modes other                         | er than 'active mode'           |              | Annual electricity consumption                             |                    |                           |
| off mode                                                          | Poff 4 W                        | /            | cooling                                                    | Qce                | 211 kWh/a                 |
| standby mode                                                      | Psb 4 W                         |              | heating / Average                                          | Qhe                | 1341 kWh/a                |
| thermostat-off mode                                               | Pto 12 W                        |              | heating / Warmer                                           | Qhe                | 1425 kWh/a                |
|                                                                   | PCK U W                         | r            | neating / colder                                           | QIIE               | - kvvn/a                  |
| Capacity control(indicate one of three on                         | tions)                          | 1            | Other items                                                |                    |                           |
|                                                                   | ,                               |              | Sound power level(indoor)                                  | Lwa                | <b>59</b> dB(A)           |
|                                                                   |                                 |              | Sound power level(outdoor)                                 | Lwa                | 63 dB(A)                  |
| fixed                                                             | No                              |              | Global warming potential                                   | GWP                | 675 kgCO <sub>2</sub> eq. |
| staged                                                            | No                              | ]            | Rated air flow(indoor)                                     | -                  | 858 m <sup>3</sup> /h     |
| variable                                                          | Yes                             |              | Rated air flow(outdoor)                                    | -                  | <b>2340</b> m³/h          |
| Contact details for obtaining Name                                | and address of the manufactu    | irer or of i | ts authorised representative                               |                    |                           |
| more information MHIAF                                            | SERVICES B.V.                   |              | נס מעווטווסכע וכעובסכוונמנועפ.                             |                    |                           |
| Herike                                                            | rbergweg 238, Luna ArenA, 1     | 101 CM A     | msterdam, Netherlands                                      |                    |                           |
|                                                                   |                                 |              |                                                            |                    |                           |
| 1                                                                 |                                 |              |                                                            |                    |                           |

## Model SRK60ZSX-W

| Information to identify the model(s) to which | the informati       | ion relates t    | :0:          | If function includes heating: Indicate the heat                 | ting season        | the          |                       |
|-----------------------------------------------|---------------------|------------------|--------------|-----------------------------------------------------------------|--------------------|--------------|-----------------------|
| Indoor unit model name                        | SRK60ZS             | (-W              |              | Information relates to. Indicated values should be at least the | Id relate to o     | one          | ae'                   |
|                                               | 31000237            |                  |              | heading season at a time. Include at least the                  | ricating se        |              | ye.                   |
| 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                                   | eyniser             | raido            | unit         | Seasonal efficiency and energy efficiency cla                   | ass                | , and a      | 0.000                 |
| cooling                                       | Pdesignc            | 6.10             | kW           | cooling                                                         | SEER               | 7.80         | A++                   |
| heating / Average                             | Pdesignh            | 5.20             | kW           | heating / Average                                               | SCOP/A             | 4.70         | A++                   |
| heating / Warmer                              | Pdesignh            | 6.80             | KVV          | heating / Warmer                                                | SCOP/W             | 5.80         | A+++                  |
| neating / Colder                              | Puesignin           | -                | KVV          | Treating / Colder                                               | SCUP/C             | -            | -<br>unit             |
| Declared capacity at outdoor temperature To   | designh             |                  |              | Back up heating capacity at outdoor tempera                     | ature Tdesig       | nh           | unit                  |
| heating / Average (-10°C)                     | Pdh                 | 5.20             | kW           | heating / Average (-10°C)                                       | elbu               | 0            | kW                    |
| heating / Warmer (2°C)                        | Pdh                 | 6.80             | kW           | heating / Warmer (2°C)                                          | elbu               | 0            | kW                    |
| heating / Colder (-22°C)                      | Pan                 | -                | KVV          | neating / Colder (-22°C)                                        | elbu               | -            | KVV                   |
| Declared capacity for cooling, at indoor temp | perature 27(1       | 19)°C and        |              | Declared energy efficiency ratio, at indoor te                  | mperature 2        | 27(19)°C and | 1                     |
| outdoor temperature Tj                        |                     | -,               |              | outdoor temperature Tj                                          |                    | ( - )        |                       |
| Tj=35°C                                       | Pdc                 | 6.10             | kW           | Tj=35°C                                                         | EERd               | 3.60         | -                     |
| Tj=30°C                                       | Pdc                 | 4.50             | kW           | Tj=30°C                                                         | EERd               | 5.40         | -                     |
| Ij=25℃<br>Ti=20℃                              | Pdc<br>Pdc          | 2.90             | KW KW        | Ij=25℃<br>Ti=20℃                                                | EERd               | 9.00         | -                     |
| 1, 200                                        | 1 40                | 1.00             |              |                                                                 |                    | 10.40        |                       |
| Declared capacity for heating / Average sea   | son, at indoc       | or               |              | Declared coefficient of performance / Average                   | ge season, a       | at indoor    |                       |
| temperature 20°C and outdoor temperature      | Гj                  |                  |              | temperature 20°C and outdoor temperature                        | Гј                 |              |                       |
| I J=-7°C                                      | Pdh                 | 4.70             | κW           | IJ=-7°C                                                         | COPd               | 3.10         | -                     |
| Tj=2 C<br>Ti=7℃                               | Pan<br>Pdb          | 2.80             | κνν<br>kW    | Ti=2°C                                                          | COP4               | 4.65         | -                     |
| Ti=12°C                                       | Pdh                 | 1.10             | kW           | Ti=12°C                                                         | COPd               | 7.13         |                       |
| Tj=bivalent temperature                       | Pdh                 | 5.20             | kW           | Tj=bivalent temperature                                         | COPd               | 2.45         | -                     |
| Tj=operating limit                            | Pdh                 | 5.20             | kW           | Tj=operating limit                                              | COPd               | 2.45         | -                     |
|                                               |                     |                  |              |                                                                 |                    |              |                       |
| temperature 20°C and outdoor temperature      | son, at indoo<br>Ti | ſ                |              | temperature 20°C and outdoor temperature                        | er season, a<br>ri | it indoor    |                       |
| Tj=2°C                                        | Pdh                 | 6.80             | kW           | Ti=2°C                                                          | COPd               | 2.70         | -                     |
| Tj=7℃                                         | Pdh                 | 4.37             | kW           | Tj=7℃                                                           | COPd               | 5.16         | -                     |
| Tj=12°C                                       | Pdh                 | 1.94             | kW           | Tj=12°C                                                         | COPd               | 7.31         | -                     |
| Tj=bivalent temperature                       | Pdh                 | 6.80             | kW           | Tj=bivalent temperature                                         | COPd               | 2.70         | -                     |
| I j=operating limit                           | Pdh                 | 6.80             | kW           | I j=operating limit                                             | COPd               | 2.70         | -                     |
| Declared capacity for heating / Colder seaso  | n. at indoor        |                  |              | Declared coefficient of performance / Colder                    | season, at         | indoor       |                       |
| temperature 20°C and outdoor temperature      | Гј                  |                  |              | temperature 20°C and outdoor temperature                        | гј                 |              |                       |
| Tj=-7°C                                       | Pdh                 | -                | kW           | Tj=-7°C                                                         | COPd               | -            | -                     |
| Tj=2°C                                        | Pdh                 | -                | kW           | Tj=2°C                                                          | COPd               | -            | -                     |
| j=/ <sup>-</sup> C                            | Pan<br>Pdb          | -                | KVV<br>KVV   | IJ=7℃<br>Ti=12℃                                                 | COPd               | -            | -                     |
| Ti=bivalent temperature                       | Pdh                 | -                | kW           | Ti=bivalent temperature                                         | COPd               |              | _                     |
| Tj=operating limit                            | Pdh                 | -                | kW           | Tj=operating limit                                              | COPd               | -            | -                     |
| Tj=-15°C                                      | Pdh                 | -                | kW           | Tj=-15℃                                                         | COPd               | -            | -                     |
|                                               |                     |                  |              |                                                                 |                    |              |                       |
| Bivalent temperature                          | Thiv                | -10              | °C           | Operating limit temperature                                     | Tol                | -10          | °C                    |
| heating / Warmer                              | Tbiv                | 2                | °C           | heating / Warmer                                                | Tol                | 2            | °C                    |
| heating / Colder                              | Tbiv                | -                | °C           | heating / Colder                                                | Tol                | -            | °C                    |
|                                               |                     |                  |              |                                                                 |                    |              |                       |
| Cycling interval capacity                     | Poves               |                  | K/M/         | Cycling interval efficiency                                     | EEDovo             | r            |                       |
| for heating                                   | Pcych               | -                | kW           | for heating                                                     |                    | -            |                       |
| lor neuting                                   | royon               |                  |              | ioi ricullig                                                    | 001 090            |              |                       |
| Degradation coefficient                       |                     |                  |              | Degradation coefficient                                         |                    |              |                       |
| cooling                                       | Cdc                 | 0.25             | -            | heating                                                         | Cdh                | 0.25         | -                     |
| Electric power input in power modes other th  | an lactivo m        | odo'             |              | Annual electricity consumption                                  |                    |              |                       |
| off mode                                      | Poff                | 4                | w            | cooling                                                         | Qce                | 274          | kWh/a                 |
| standby mode                                  | Psb                 | 4                | w            | heating / Average                                               | Qhe                | 1551         | kWh/a                 |
| thermostat-off mode                           | Pto                 | 12               | w            | heating / Warmer                                                | Qhe                | 1643         | kWh/a                 |
| crankcase heater mode                         | Pck                 | 0                | W            | heating / colder                                                | Qhe                | -            | kWh/a                 |
| Capacity control/indicate one of three entire | c)                  |                  |              | Other items                                                     |                    |              |                       |
| Sapacity control(indicate one of three option | 3)                  |                  |              | Sound power level(indoor)                                       | Lwa                | 62           | dB(A)                 |
|                                               |                     |                  |              | Sound power level(outdoor)                                      | Lwa                | 65           | dB(A)                 |
| fixed                                         | No                  |                  |              | Global warming potential                                        | GWP                | 675          | kgCO <sub>2</sub> eq. |
| staged                                        | No                  |                  |              | Rated air flow(indoor)                                          | -                  | 978          | m³/h                  |
| variable                                      | Yes                 |                  |              | Rated air flow(outdoor)                                         | -                  | 2490         | m³/h                  |
|                                               |                     |                  |              |                                                                 |                    |              |                       |
| Contact details for obtaining Name and        | address of          | the manufa       | cturer or of | its authorised representative.                                  |                    |              |                       |
| MHIAE SE                                      | rawea 238 I         | v.<br>_una Aren∆ | . 1101 CM 4  | Amsterdam, Netherlands                                          |                    |              |                       |
|                                               |                     |                  | ,            |                                                                 |                    |              |                       |
|                                               |                     |                  |              |                                                                 |                    |              |                       |
|                                               |                     |                  |              | r                                                               |                    |              |                       |

# Model SRK60ZSX-W

| Information to identify the model(s) to which the | he information relates to:        | If function includes heating: Indicate the heat | ing season the            |
|---------------------------------------------------|-----------------------------------|-------------------------------------------------|---------------------------|
| Indoor unit model name                            | SRK60ZSX-W                        | information relates to. Indicated values should | d relate to one           |
|                                                   | SRC602SX-W1                       | neating season at a time. Include at least the  | neating 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        |
|                                                   | Pdesignc 610 kW                   | cooling                                         | SEER 7.80 A++             |
| heating / Average                                 | Pdesignh 5.20 kW                  | heating / Average                               | SCOP/A 4.70 A++           |
| heating / Warmer                                  | Pdesignh 6.80 kW                  | heating / Warmer                                | SCOP/W 5.80 A+++          |
| heating / Colder                                  | Pdesignh - kW                     | heating / Colder                                | SCOP/C                    |
|                                                   |                                   |                                                 | unit                      |
| Declared capacity at outdoor temperature 1 de     | esignh                            | Back up heating capacity at outdoor tempera     | ture I designh            |
| heating / Average (-10 C)                         | Pdh 6.80 kW                       | heating / Warmer (2°C)                          | elbu 0 kW                 |
| heating / Colder (-22°C)                          | Pdh - kW                          | heating / Colder (-22°C)                        | elbu - kW                 |
|                                                   |                                   |                                                 |                           |
| Declared capacity for cooling, at indoor tempe    | erature 27(19)°C and              | Declared energy efficiency ratio, at indoor ter | mperature 27(19)°C and    |
| outdoor temperature Tj                            |                                   | outdoor temperature Tj                          |                           |
| Tj=35℃                                            | Pdc 6.10 kW                       | Tj=35℃                                          | EERd 3.60 -               |
| Tj=30 C                                           | Pdc 4.50 KW                       | TI=25°C                                         | EERd 5.40 -               |
| Ti=20°C                                           | Pdc 1.60 kW                       | Ti=20°C                                         | EERd 18.40                |
|                                                   | 1.00                              | 1]=20 0                                         |                           |
| Declared capacity for heating / Average seaso     | on, at indoor                     | Declared coefficient of performance / Averag    | e season, at indoor       |
| temperature 20°C and outdoor temperature T        | j<br>                             | temperature 20°C and outdoor temperature T      | ј<br>аст                  |
| IJ=-7°C                                           | Pdh 4.70 kW                       | 1j=-7°C                                         | COPd 3.10 -               |
| IJ=2 <sup>-</sup> C                               | Pan 2.80 kW                       | 1]=2°C<br>Ti=7°C                                | COPd 4.65                 |
| Tj=7 C                                            | Pdh 1.00 KW                       | Tj=7 C                                          | COPd 5.86 -               |
| Ti=hivalent temperature                           | Pdh 520 kW                        | Ti=bivalent temperature                         | COPd <b>2.45</b>          |
| Tj=operating limit                                | Pdh <b>5.20</b> kW                | Ti=operating limit                              | COPd <b>2.45</b> -        |
| <u> </u>                                          |                                   |                                                 |                           |
| Declared capacity for heating / Warmer seaso      | on, at indoor                     | Declared coefficient of performance / Warme     | r season, at indoor       |
| temperature 20°C and outdoor temperature T        |                                   | temperature 20°C and outdoor temperature T      |                           |
| 1 J=2 C                                           | Pdn 6.80 KVV                      | ]=2 C<br>    Ti=7°C                             | COPd 2.70 -               |
| Tj=7 C                                            | Pdb 194 kW/                       | Ti=12°C                                         | COPd <b>7.31</b>          |
| Ti=bivalent temperature                           | Pdh 6.80 kW                       | Ti=bivalent temperature                         | COPd 2.70 -               |
| Tj=operating limit                                | Pdh <b>6.80</b> kW                | Tj=operating limit                              | COPd <b>2.70</b> -        |
|                                                   | ÷ · ·                             |                                                 | · · ·                     |
| Declared capacity for heating / Colder season     | , at indoor                       | Declared coefficient of performance / Colder    | season, at indoor         |
| temperature 20°C and outdoor temperature $I_{j}$  |                                   | temperature 20°C and outdoor temperature 1      |                           |
| Tj=-7 C                                           | Pdh - KW                          | Tj=-7 C                                         |                           |
| Ti=7°C                                            | Pdh - kW                          | Ti=7°C                                          | COPd                      |
| Ti=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℃                                           | Pdh - kW                          | Tj=-15°C                                        | COPd                      |
| Divelent temperature                              |                                   | On exerting limit terms exerture                |                           |
| beating / Average                                 | Thiy -10 °C                       | beating / 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                         | Device lists                      | Cycling interval efficiency                     |                           |
| for beating                                       | Poyce - KW                        | for beating                                     |                           |
|                                                   | - KVV                             |                                                 |                           |
| Degradation coefficient                           |                                   | Degradation coefficient                         |                           |
| cooling                                           | Cdc 0.25 -                        | heating                                         | Cdh 0.25 -                |
|                                                   |                                   |                                                 |                           |
| Electric power input in power modes other that    | an 'active mode'                  | Annual electricity consumption                  | 0ce <b>274</b> kW/b/2     |
| standby mode                                      | Psb <b>4</b> W                    | heating / Average                               | Qhe 1551 kWh/a            |
| thermostat-off mode                               | Pto 12 W                          | heating / Warmer                                | Qhe <b>1643</b> kWh/a     |
| crankcase heater mode                             | Pck 0 W                           | heating / colder                                | Qhe - kWh/a               |
| -                                                 |                                   |                                                 |                           |
| Capacity control(indicate one of three options    | )                                 | Other items                                     |                           |
|                                                   |                                   | Sound power level(indoor)                       | LWa 62 dB(A)              |
| fixed                                             | No                                | Global warming potential                        |                           |
|                                                   | NU                                |                                                 | GVVF 0/5 KgCU2eq.         |
| stageo                                            | NO                                | Rated air flow(Indoor)                          | - 978 m <sup>-</sup> /h   |
| variable                                          | Yes                               | Rated air flow(outdoor)                         | - <b>2490</b> m³/h        |
| Contact details for obtaining Name and            | address of the manufacturer or of | its authorised representative.                  |                           |
| more information MHIAE SE                         | RVICES B.V.                       |                                                 |                           |
| Herikerber                                        | gweg 238, Luna ArenA, 1101 CM A   | Amsterdam, Netherlands                          |                           |
|                                                   |                                   |                                                 |                           |
| 1                                                 |                                   |                                                 |                           |

## Model SRK20ZSX-WB

| Information to identify the model(s) to which | the information relates to:      | If function includes heating: Indicate the heat | ting season the                 |
|-----------------------------------------------|----------------------------------|-------------------------------------------------|---------------------------------|
| Indoor unit model name                        | SRK20ZSX-WB                      | information relates to. Indicated values shou   | Ild relate to one               |
| Outdoor unit model name                       | SRC20ZSX-W                       | heating season at a time. Include at least the  | e neating 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              |
|                                               | Pdesigne 200 kW                  | Seasonal efficiency and energy efficiency cl    | SEER 10.00 A+++                 |
| heating / Average                             | Pdesignb 2.80 kW                 | beating / Average                               | SCOP/A 5-20 A+++                |
| heating / Warmer                              | Pdesignh 3.70 kW                 | heating / Warmer                                | SCOP/W 6.70 A+++                |
| heating / Colder                              | Pdesignh - kW                    | heating / Colder                                | SCOP/C                          |
|                                               |                                  |                                                 | unit                            |
| Declared capacity at outdoor temperature To   |                                  | Back up heating capacity at outdoor tempera     | ature Tdesignh                  |
| heating / Average (-10 C)                     | Pdn 2.80 kW                      | heating / Average (-10 C)                       |                                 |
| heating / Colder (-22°C)                      | Pdh - kW                         | heating / Colder (-22°C)                        | elbu - kW                       |
|                                               |                                  | Hodding / Coldon ( 22 C)                        |                                 |
| Declared capacity for cooling, at indoor temp | perature 27(19)°C and            | Declared energy efficiency ratio, at indoor te  | emperature 27(19)°C and         |
| outdoor temperature Tj                        |                                  | outdoor temperature Tj                          |                                 |
| Tj=35℃                                        | Pdc 2.00 kW                      | Tj=35℃                                          | EERd <b>6.45</b> -              |
| lj=30℃<br>Ti=05°o                             | Pdc 1.47 kW                      | Tj=30℃                                          | EERd 9.29 -                     |
| IJ=25 C<br>Ti=20℃                             | Pdc 1.25 KW                      | Tj=25 C                                         | EERd 13.90 -                    |
| 1j=20 C                                       | Fuc 1.30 KW                      | 1]=20 C                                         | 20.70 -                         |
| Declared capacity for heating / Average sea   | son, at indoor                   | Declared coefficient of performance / Average   | ge season, at indoor            |
| temperature 20°C and outdoor temperature      | Гј <u></u>                       | temperature 20°C and outdoor temperature        | Tj                              |
| Tj=-7°C                                       | Pdh 2.40 kW                      | Tj=-7°C                                         | COPd 3.20 -                     |
| Tj=2°C                                        | Pdh 1.48 kW                      | Tj=2°C                                          | COPd 5.30 -                     |
| IJ=7°C                                        | Pan 0.96 kW                      | 1j=/°C                                          | COPd 6.50 -                     |
| Tj=12 C<br>Ti=biyalent temperature            | Pdh 0.96 KW                      | Tj=12 C<br>Ti=biyalent temperature              | COPd 8.28 -                     |
| Ti=operating limit                            | Pdh 2.80 kW                      | Ti=operating limit                              | COPd 2.79 -                     |
|                                               |                                  | ij oporazing mine                               |                                 |
| Declared capacity for heating / Warmer seas   | son, at indoor                   | Declared coefficient of performance / Warm      | er season, at indoor            |
| temperature 20°C and outdoor temperature      | rj                               | temperature 20°C and outdoor temperature        | Tj                              |
| Tj=2℃                                         | Pdh 3.70 kW                      | Tj=2℃                                           | COPd 3.40 -                     |
| Tj=7°C                                        | Pdn 2.40 kW                      | j=/ <sup>-</sup> C                              | COPd 6.12 -                     |
| Tj=12 C                                       | Pdh 370 kW                       | Tj=12 C                                         | COPd 340                        |
| Ti=operating limit                            | Pdh 3.70 kW                      | Ti=operating limit                              | COPd 3.40 -                     |
| ,                                             |                                  | , , , , , , , , , , , , , , , , , , ,           | I                               |
| Declared capacity for heating / Colder seaso  | n, at indoor                     | Declared coefficient of performance / Colder    | r season, at indoor             |
| temperature 20°C and outdoor temperature      | rj                               | temperature 20°C and outdoor temperature        | Tj                              |
| I j=-7°C                                      | Pdh - kW                         | Ij=-7℃<br>Ti=2°0                                | COPd                            |
| Tj=2 C                                        | Pdli - kW                        | Tj=2 C                                          |                                 |
| Ti=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                            |
|                                               |                                  |                                                 |                                 |
| Bivalent temperature                          |                                  | Operating limit temperature                     |                                 |
| heating / Warmer                              | Thiv <b>2</b> °C                 | heating / Warmer                                | Tol 2 °C                        |
| heating / Colder                              | Tbiv - °C                        | heating / Colder                                | Tol - °C                        |
| 5                                             |                                  | 5                                               | I                               |
| Cycling interval capacity                     |                                  | Cycling interval efficiency                     |                                 |
| for cooling                                   | Pcycc - kW                       | for cooling                                     | EERcyc                          |
| tor neating                                   | Pcych - kW                       | tor heating                                     | COPCyc                          |
| Degradation coefficient                       |                                  | Degradation coefficient                         |                                 |
| cooling                                       | Cdc 0.25 -                       | heating                                         | Cdh 0.25 -                      |
|                                               |                                  | -                                               |                                 |
| Electric power input in power modes other th  | an 'active mode'                 | Annual electricity consumption                  |                                 |
| off mode                                      | Pott 4 W                         | cooling                                         | Qce 70 kWh/a                    |
| stanuby mode                                  | FSU 4 W<br>Pto 11 W/             | heating / Average                               | Ohe <b>774</b> KW0/a            |
| crankcase heater mode                         | Pck <b>0</b> W                   | heating / colder                                | Qhe - kWh/a                     |
|                                               |                                  | incensign conten                                |                                 |
| Capacity control(indicate one of three option | s)                               | Other items                                     |                                 |
|                                               |                                  | Sound power level(indoor)                       | Lwa <b>53</b> dB(A)             |
|                                               |                                  | Sound power level(outdoor)                      | Lwa <b>56</b> dB(A)             |
| fixed                                         | No                               | Global warming potential                        | GWP 675 kgCO <sub>2</sub> eq.   |
| staged                                        | No                               | Rated air flow(indoor)                          | - <b>678</b> m <sup>3</sup> /h  |
| variable                                      | Yes                              | Rated air flow(outdoor)                         | - <b>1860</b> m <sup>3</sup> /h |
|                                               |                                  |                                                 |                                 |
| Contact details for obtaining Name and        | address of the manufacturer or c | r its authorised representative.                |                                 |
| Herikerbe                                     | rgweg 238, Luna ArenA. 1101 CN   | Amsterdam, Netherlands                          |                                 |
|                                               |                                  |                                                 |                                 |
|                                               |                                  |                                                 |                                 |
|                                               |                                  | г                                               | ]                               |

## Model SRK25ZSX-WB

| Information to identify the model(s) to which | the information relates to | 0:          | If function includes heating: Indicate the heat | ting season    | the          |                       |
|-----------------------------------------------|----------------------------|-------------|-------------------------------------------------|----------------|--------------|-----------------------|
| Indoor unit model name                        | SRK25ZSX-WB                |             | information relates to. Indicated values shou   | ld relate to c | one          |                       |
| Outdoor unit model name                       | SRC25ZSX-W                 |             | heating season at a time. Include at least the  | neating sea    | ason 'Averaç | ge'.                  |
| Function(indicate if present)                 |                            | 1           | Average(mandatory)                              | Yes            |              |                       |
| cooling                                       | Yes                        |             | Warmer(if designated)                           | Yes            |              |                       |
| heating                                       | Yes                        |             | Colder(if designated)                           | No             |              |                       |
|                                               |                            |             |                                                 |                |              |                       |
| Item                                          | symbol value               | unit        | Item                                            | symbol         | value        | class                 |
|                                               | Pdesigne 2.50              | k\M         | Seasonal emiciency and energy emiciency cla     | ISS<br>SEER    | 10 30        | Δ+++                  |
| heating / Average                             | Pdesignb 3.00              | kW          | heating / Average                               | SCOP/A         | 5.20         | A+++                  |
| heating / Warmer                              | Pdesignh 4.20              | kW          | heating / Warmer                                | SCOP/W         | 6.60         | A+++                  |
| heating / Colder                              | Pdesignh -                 | kW          | heating / Colder                                | SCOP/C         | -            | -                     |
|                                               |                            |             |                                                 |                |              | unit                  |
| Declared capacity at outdoor temperature To   | designh                    | LAM.        | Back up heating capacity at outdoor tempera     | iture Tdesig   | nh           | L\\/                  |
| heating / Average (-10 C)                     | Pdn 3.00<br>Pdb 4.20       |             | heating / Average (-10 C)                       | elbu           | 0            | KVV<br>KVV            |
| heating / Colder (-22°C)                      | Pdh -                      | kW          | heating / Colder (-22°C)                        | elbu           | -            | kW                    |
|                                               |                            |             |                                                 | 0.04           |              |                       |
| Declared capacity for cooling, at indoor temp | perature 27(19)°C and      |             | Declared energy efficiency ratio, at indoor te  | mperature 2    | 27(19)°C and |                       |
| outdoor temperature Tj                        |                            |             | outdoor temperature Tj                          |                |              |                       |
| Tj=35℃                                        | Pdc 2.50                   | kW          | Tj=35℃                                          | EERd           | 5.68         | -                     |
| lj=30°C                                       | Pdc 1.84                   | kW          | IJ=30°C                                         | EERd           | 8.75         | -                     |
| Tj=25 C                                       | Pac 1.27                   |             | Tj=25 C                                         | EERO           | 14.10        | -                     |
| 1]=20 C                                       | Fuc 1.40                   | K V V       | 1]=20 C                                         | LLINU          | 20.40        | -                     |
| Declared capacity for heating / Average sea   | son, at indoor             |             | Declared coefficient of performance / Average   | je season, a   | at indoor    |                       |
| temperature 20°C and outdoor temperature      | Гј                         | ,           | temperature 20°C and outdoor temperature        | rj             |              |                       |
| Tj=-7°C                                       | Pdh 2.61                   | kW          | Tj=-7°C                                         | COPd           | 3.15         | -                     |
| Tj=2℃                                         | Pdh 1.59                   | kW          | Tj=2°C                                          | COPd           | 5.30         | -                     |
| 1j=7 C<br>Ti=12°C                             | Pan 1.03                   | KVV         | Ti=12°C                                         | COPA           | 0.58         | -                     |
| Tj=12 C<br>Ti=biyalent temperature            | Pdh <b>0.96</b>            | KVV<br>k\// | Ti=hivalent temperature                         | COPd           | 2.69         | -                     |
| Ti=operating limit                            | Pdh 3.00                   | kW          | Ti=operating limit                              | COPd           | 2.69         | _                     |
| ·) ·p··································       |                            |             | () operating mind                               |                |              |                       |
| Declared capacity for heating / Warmer seas   | son, at indoor             |             | Declared coefficient of performance / Warme     | er season, a   | t indoor     |                       |
| temperature 20°C and outdoor temperature      | Гј                         |             | temperature 20°C and outdoor temperature 1      | ij             |              |                       |
| lj=2°C<br>T≔7°O                               | Pdh 4.20                   | kW          | IJ=2°C                                          | COPd           | 3.30         | -                     |
| Tj=7°C                                        | Pan 2.70                   | KVV         | IJ=7°C                                          | COPd           | 5.90         | -                     |
| Tj=12 C                                       | Pdh <b>1.20</b>            | kW          | Ti=bivalent temperature                         | COPd           | 3.30         | _                     |
| Ti=operating limit                            | Pdh 4.20                   | kW          | Ti=operating limit                              | COPd           | 3.30         | _                     |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,       |                            |             |                                                 |                |              |                       |
| Declared capacity for heating / Colder seaso  | on, at indoor              |             | Declared coefficient of performance / Colder    | season, at i   | indoor       |                       |
| temperature 20°C and outdoor temperature      | rj                         |             | temperature 20°C and outdoor temperature        | ij<br>OOD I    |              |                       |
| Tj=-/ <sup>-</sup> C                          | Pan -                      | KVV         | IJ=-7°C                                         | COPd           | -            | -                     |
| Tj=2 C                                        | Pdh -                      | kW          | Tj=2 ℃                                          | COPd           |              | -                     |
| Ti=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℃                                       | Pdh -                      | kW          | Tj=-15℃                                         | COPd           | -            | -                     |
|                                               |                            |             |                                                 |                |              |                       |
| Bivalent temperature                          | Thiv -10                   | °C          | Operating limit temperature                     | Tol            | -10          | °C                    |
| heating / Warmer                              | Thiv -10                   | °C          | heating / Warmer                                | Tol            | -10          | °C                    |
| heating / Colder                              | Tbiv -                     | °C          | heating / Colder                                | Tol            |              | °C                    |
|                                               |                            |             |                                                 |                |              |                       |
| Cycling interval capacity                     |                            |             | Cycling interval efficiency                     |                |              |                       |
| for cooling                                   | Pcycc -                    | kW          | for cooling                                     | EERcyc         | <u>⊢ -</u>   | -                     |
| tor neating                                   | rcycn -                    | KVV         | for neating                                     | COPcyc         | -            | -                     |
| Degradation coefficient                       |                            |             | Degradation coefficient                         |                |              |                       |
| cooling                                       | Cdc 0.25                   | -           | heating                                         | Cdh            | 0.25         | -                     |
|                                               |                            |             |                                                 |                |              |                       |
| Electric power input in power modes other th  | an 'active mode'           |             | Annual electricity consumption                  |                |              |                       |
| OTT MODE                                      | Pott 4                     | VV<br>W     | cooling                                         | Qce            | 85           | kWh/a                 |
| thermostat-off mode                           | Pto 11                     | W           | heating / Warmer                                | Ohe            | 891          | kWh/a                 |
| crankcase heater mode                         | Pck 0                      | W           | heating / colder                                | Qhe            | -            | kWh/a                 |
|                                               |                            |             |                                                 |                |              | -                     |
| Capacity control(indicate one of three option | s)                         |             | Other items                                     |                |              |                       |
|                                               |                            |             | Sound power level(indoor)                       | Lwa            | 55           | dB(A)                 |
|                                               |                            |             | Sound power level(outdoor)                      | Lwa            | 57           | dB(A)                 |
| fixed                                         | No                         |             | Global warming potential                        | GWP            | 675          | kgCO <sub>2</sub> eq. |
| staged                                        | No                         |             | Rated air flow(indoor)                          | -              | 732          | m³/h                  |
| variable                                      | Yes                        |             | Rated air flow(outdoor)                         | -              | 1860         | m³/h                  |
|                                               | Laddress of the state      |             |                                                 |                |              |                       |
| more information                              | address of the manufa      | curer or of | ns authorised representative.                   |                |              |                       |
| Herikerbe                                     | rgweg 238, Luna ArenA      | , 1101 CM A | Amsterdam, Netherlands                          |                |              |                       |
|                                               |                            |             |                                                 |                |              |                       |
|                                               |                            |             |                                                 |                |              |                       |
|                                               |                            |             | Г                                               |                |              |                       |

## Model SRK35ZSX-WB

| Information to identify the model(s) to which | the information relates to:    | If function includes heating: Indicate the heat | ating season the                                |
|-----------------------------------------------|--------------------------------|-------------------------------------------------|-------------------------------------------------|
| Indoor unit model name                        | SRK35ZSX-WB                    | information relates to. Indicated values shou   | ald relate to one                               |
| Outdoor unit model name                       | SRC35ZSX-W                     | neating season at a time. Include at least th   | e neating 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                              |
|                                               | Pdesigne 3.50 kW               | Seasonal emiciency and energy emiciency c       | ASS<br>SEER 950 A+++                            |
| heating / Average                             | Pdesignb 3.40 kW               | heating / Average                               | SCOP/A 5.10 A+++                                |
| heating / Warmer                              | Pdesignh 4.70 kW               | heating / Warmer                                | SCOP/W 6.50 A+++                                |
| heating / Colder                              | Pdesignh - kW                  | heating / Colder                                | SCOP/C                                          |
|                                               |                                |                                                 | unit                                            |
| Declared capacity at outdoor temperature To   | lesignh                        | Back up heating capacity at outdoor temper      | ature Tdesignh                                  |
| heating / Average (-10 C)                     | Pdn 3.40 KVV                   | heating / Average (-10 C)                       | elbu <b>U</b> kW                                |
| heating / Colder (-22°C)                      | Pdh - kW                       | heating / Colder (-22°C)                        | elbu - kW                                       |
|                                               | i dii                          |                                                 | 0.00                                            |
| Declared capacity for cooling, at indoor temp | perature 27(19)°C and          | Declared energy efficiency ratio, at indoor te  | emperature 27(19)°C and                         |
| outdoor temperature Tj                        |                                | outdoor temperature Tj                          |                                                 |
| Tj=35℃                                        | Pdc 3.50 kW                    | Tj=35°C                                         | EERd <b>4.73</b> -                              |
| Ij=30°C                                       | Pdc 2.58 kW                    | Ij=30°C                                         | EERd 7.29 -                                     |
| IJ=25 C<br>Ti=20℃                             | Pdc 1.66 KVV                   | 1j=25 C                                         | EERO 12.43 -                                    |
| 1j=20 C                                       | Fuc 1.36 KW                    | 1)-20 0                                         | LEINU 13.00 -                                   |
| Declared capacity for heating / Average sea   | son, at indoor                 | Declared coefficient of performance / Avera     | ge season, at indoor                            |
| temperature 20°C and outdoor temperature      | Гј <u></u>                     | temperature 20°C and outdoor temperature        | Тј                                              |
| Tj=-7°C                                       | Pdh 2.95 kW                    | Tj=-7°C                                         | COPd 3.10 -                                     |
| Tj=2°C                                        | Pdh 1.77 kW                    | Tj=2°C                                          | COPd 5.18 -                                     |
| IJ=7 C<br>Ti=12°C                             | Pan 1.20 KW                    | IJ=7°C                                          |                                                 |
| Tj=12 C<br>Ti=biyalent temperature            | Pdfi 1.00 kW                   | Tj=12 C<br>Ti=biyalent temperature              | COPd <b>8.10</b> -                              |
| Ti=operating limit                            | Pdh <b>3.40</b> kW             | Ti=operating limit                              | COPd 2.61                                       |
|                                               | •••••                          | If operating mine                               |                                                 |
| Declared capacity for heating / Warmer seas   | son, at indoor                 | Declared coefficient of performance / Warm      | er season, at indoor                            |
| temperature 20°C and outdoor temperature      | Гј                             | temperature 20°C and outdoor temperature        | Tj                                              |
| Tj=2℃                                         | Pdh <b>4.70</b> kW             | Tj=2℃                                           | COPd 3.10 -                                     |
| Tj=7°C                                        | Pan 3.00 KW                    |                                                 | COPd 5.80 -                                     |
| Tj=12 C<br>Ti=biyalent temperature            | Pdb 470 kW                     | Ti=bivalent temperature                         | COPd 310                                        |
| Ti=operating limit                            | Pdh <b>4.70</b> kW             | Ti=operating limit                              | COPd 3.10 -                                     |
|                                               |                                |                                                 |                                                 |
| Declared capacity for heating / Colder seaso  | n, at indoor                   | Declared coefficient of performance / Colde     | r season, at indoor                             |
| temperature 20°C and outdoor temperature      | Гј<br>                         | temperature 20°C and outdoor temperature        | Tj                                              |
| I j=-7°C                                      | Pdh - KVV                      | ]=-7℃<br>  2°0                                  | COPd                                            |
| Tj=2 C                                        | Pdli - Kvv                     |                                                 |                                                 |
| Ti=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℃                                         | COPd                                            |
|                                               |                                |                                                 |                                                 |
| Bivalent temperature                          |                                | Operating limit temperature                     |                                                 |
| heating / Warmer                              | Thiv 2 C                       | heating / Warmer                                | Tol 2 °C                                        |
| heating / Colder                              | Tbiv - °C                      | heating / Colder                                |                                                 |
|                                               |                                |                                                 |                                                 |
| Cycling interval capacity                     |                                | Cycling interval efficiency                     |                                                 |
| for cooling                                   | Pcycc - kW                     | for cooling                                     | EERcyc                                          |
| tor neating                                   | Pcych - kW                     | tor heating                                     | COPcyc                                          |
| Degradation coefficient                       |                                | Degradation coefficient                         |                                                 |
| cooling                                       | Cdc 0.25 -                     | heating                                         | Cdh 0.25 -                                      |
|                                               |                                |                                                 | <b>k</b>                                        |
| Electric power input in power modes other th  | an 'active mode'               | Annual electricity consumption                  | -                                               |
| off mode                                      | Pott 4 W                       | cooling                                         | Qce 129 kWh/a                                   |
| standby mode                                  | FSD 4 W<br>Pto 41 W/           | heating / Average                               | Que <b>934</b> KVVN/a<br>Obe <b>1013</b> kW/b/a |
| crankcase beater mode                         | Pok 0 W                        | heating / colder                                | Ohe kWh/a                                       |
|                                               |                                | incuting / colder                               |                                                 |
| Capacity control(indicate one of three option | s)                             | Other items                                     |                                                 |
|                                               |                                | Sound power level(indoor)                       | Lwa <b>58</b> dB(A)                             |
|                                               |                                | Sound power level(outdoor)                      | Lwa <b>61</b> dB(A)                             |
| fixed                                         | No                             | Global warming potential                        | GWP 675 kgCO <sub>2</sub> eq.                   |
| staged                                        | No                             | Rated air flow(indoor)                          | - <b>786</b> m <sup>3</sup> /h                  |
| variable                                      | Yes                            | Rated air flow(outdoor)                         | - <b>2160</b> m <sup>3</sup> /h                 |
|                                               |                                |                                                 |                                                 |
| Contact details for obtaining Name and        | address of the manufacturer of | or its authorised representative.               |                                                 |
| Herikerbe                                     | rgweg 238, Luna ArenA. 1101 C  | M Amsterdam, Netherlands                        |                                                 |
|                                               |                                |                                                 |                                                 |
|                                               |                                |                                                 |                                                 |
|                                               |                                |                                                 | ]                                               |

## Model SRK50ZSX-WB

| Information to identify the model(s) to which | the information | relates to:      | If function includes heating: Indicate the he | eating season  | the                           |
|-----------------------------------------------|-----------------|------------------|-----------------------------------------------|----------------|-------------------------------|
| Indoor unit model name                        | SRK50ZSX-       | NB               | information relates to. Indicated values sho  | ould relate to | one                           |
| Outdoor unit model name                       | SRC50ZSX-       | N                | heating season at a time. Include at least t  | he heating se  | ason 'Average'.               |
| Eunction(indicate if present)                 |                 |                  | Average(mandatory)                            | Yes            |                               |
| cooling                                       | Yes             |                  | Warmer(if designated)                         | Yes            |                               |
| heating                                       | Yes             |                  | Colder(if designated)                         | No             |                               |
|                                               |                 |                  |                                               |                |                               |
| Item                                          | symbol va       | alue unit        | Item                                          | symbol         | value class                   |
| Design load                                   | Pdesigne        | 5 00 kW          | Seasonal efficiency and energy efficiency     | Class          | 8 30 0++                      |
| beating / Average                             | Pdesignb        | 4.50 kW          | beating / Average                             | SCOP/A         | 4 70 A++                      |
| heating / Warmer                              | Pdesignh        | 6.00 kW          | heating / Warmer                              | SCOP/W         | 5.90 A+++                     |
| heating / Colder                              | Pdesignh        | - kW             | heating / Colder                              | SCOP/C         |                               |
|                                               |                 |                  |                                               |                | unit                          |
| Declared capacity at outdoor temperature T    | designh         | 4.50             | Back up heating capacity at outdoor tempe     | erature Tdesig | inh                           |
| heating / Average (-10 C)                     | Pan             | 4.50 KVV         | heating / Average (-10 C)                     | elbu           |                               |
| heating / Warner (2 C)                        | Pdh             | - kW             | heating / Colder (-22°C)                      | elbu           | - kW                          |
|                                               | 1 dil           |                  |                                               | Cibu           |                               |
| Declared capacity for cooling, at indoor tem  | perature 27(19  | )°C and          | Declared energy efficiency ratio, at indoor   | temperature 2  | 27(19)°C and                  |
| outdoor temperature Tj                        | _               | <u>,</u>         | outdoor temperature Tj                        |                |                               |
| Tj=35℃                                        | Pdc             | 5.00 kW          | Tj=35°C                                       | EERd           | 4.10 -                        |
| Tj=30℃                                        | Pdc             | 3.70 kW          | Tj=30°C                                       | EERd           | 5.90 -                        |
| Tj=25°C                                       | Pac             | 2.40 KVV         | 1j=25°C                                       | EERO           | 9.90 -                        |
| 1j=20 C                                       | Fuc             | 1.50 KW          | 1j=20 C                                       | EERU           | 10.20 -                       |
| Declared capacity for heating / Average sea   | son, at indoor  |                  | Declared coefficient of performance / Aver    | age season, a  | at indoor                     |
| temperature 20°C and outdoor temperature      | Tj              |                  | temperature 20°C and outdoor temperature      | e Tj           |                               |
| Tj=-7℃                                        | Pdh             | 3.98 kW          | Tj=-7℃                                        | COPd           | 3.30 -                        |
| Tj=2°C                                        | Pdh             | 2.42 kW          | Tj=2°C                                        | COPd           | 4.64 -                        |
| IJ=7°C                                        | Pan<br>Dah      | 1.56 KW          | IJ=/ C<br>Ti=12°C                             | COPd           | 5.64 -                        |
| Tj=12 C                                       | Puli<br>Pdh     | 4.50 kW          | Tj=12 C                                       | COPd           | 7.20 -                        |
| Ti=operating limit                            | Pdh             | 4.50 kW          | Ti=operating limit                            | COPd           | 2.64                          |
|                                               | . un            |                  | ij opolatilg inne                             | 00.0           |                               |
| Declared capacity for heating / Warmer sea    | son, at indoor  |                  | Declared coefficient of performance / War     | mer season, a  | at indoor                     |
| temperature 20°C and outdoor temperature      | Tj              | <b>,</b>         | temperature 20°C and outdoor temperature      | e Tj           |                               |
| Tj=2°C                                        | Pdh             | 6.00 kW          | Tj=2°C                                        | COPd           | 3.01 -                        |
| lj=7℃<br>Ti=12℃                               | Pdh             | 3.90 kW          |                                               | COPd           | 5.35 -                        |
| Tj=12 C                                       | Pan<br>Pdb      | 1.70 KVV         | Tj=12 C                                       | COPd           | 7.20 -                        |
| Ti=operating limit                            | Pdh             | 6.00 kW          | Ti=operating limit                            | COPd           | 3.01 -                        |
| ·) · · · · · · · · · · · · · · · · · ·        |                 |                  | ·) ·poroung mint                              |                |                               |
| Declared capacity for heating / Colder sease  | on, at indoor   |                  | Declared coefficient of performance / Cold    | er season, at  | indoor                        |
| temperature 20°C and outdoor temperature      | Tj              |                  | temperature 20°C and outdoor temperature      | e Tj           |                               |
| Tj=-7℃<br>Ti=-0°0                             | Pdh             | - kW             | Tj=-7℃                                        | COPd           |                               |
| 1j=2°C                                        | Pan<br>Dah      | - KVV            | 1j=2°C                                        | COPd           | <u> </u>                      |
| Ti=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℃                                       | COPd           |                               |
|                                               |                 |                  |                                               |                |                               |
| Bivalent temperature                          | This            | 10 00            | Operating limit temperature                   | Tol            |                               |
| heating / Average                             | Thiv            | -10 C            | heating / Warmer                              | Tol            | -10 0                         |
| heating / Colder                              | Thiv            | - 00             | heating / Colder                              | Tol            | - ℃                           |
|                                               |                 | , v              |                                               |                | · · · · ·                     |
| Cycling interval capacity                     |                 |                  | Cycling interval efficiency                   |                |                               |
| for cooling                                   | Pcycc           | - kW             | for cooling                                   | EERcyc         | <u>⊢ - </u> ]-                |
| for heating                                   | Pcych           | - kW             | for heating                                   | COPcyc         |                               |
| Degradation coefficient                       |                 |                  | Degradation coefficient                       |                |                               |
| cooling                                       | Cdc             | 0.25 -           | heating                                       | Cdh            | 0.25 -                        |
|                                               |                 |                  |                                               |                | · · ·                         |
| Electric power input in power modes other the | nan 'active moo | le'              | Annual electricity consumption                |                |                               |
| ott mode                                      | Poff            | 4 W              | cooling                                       | Qce            | 211 kWh/a                     |
| stanuby mode                                  | PSD             | 4 VV<br>12 W/    | heating / Average                             | Qne            | 1341 KWN/a<br>1425 kW/b/a     |
| crankcase heater mode                         | Pck             | 0 W              | heating / colder                              | Qhe            | - kWh/a                       |
|                                               |                 | - 1.1            |                                               |                |                               |
| Capacity control(indicate one of three option | is)             |                  | Other items                                   |                |                               |
|                                               |                 |                  | Sound power level(indoor)                     | Lwa            | 59 dB(A)                      |
|                                               |                 |                  | Sound power level(outdoor)                    | Lwa            | 63 dB(A)                      |
| fixed                                         | No              |                  | Global warming potential                      | GWP            | 675 kgCO <sub>2</sub> eq.     |
| staged                                        | No              |                  | Rated air flow(indoor)                        | -              | 858 m³/h                      |
| variable                                      | Yes             |                  | Rated air flow(outdoor)                       | -              | <b>2340</b> m <sup>3</sup> /h |
|                                               |                 |                  |                                               |                |                               |
| Contact details for obtaining Name and        | address of the  | e manufacturer o | ot its authorised representative.             |                |                               |
| Herikerbe                                     | rawea 238 Lu    | na ArenA, 1101 C | M Amsterdam, Netherlands                      |                |                               |
|                                               | J g = 30, EU    |                  |                                               |                |                               |
|                                               |                 |                  |                                               |                |                               |
|                                               |                 |                  |                                               |                |                               |

# Model SRK50ZSX-WB

| Information to identify the model(s) to which the | he information relates to:           | If function includes heating: Indicate the heati         | ng season the                       |
|---------------------------------------------------|--------------------------------------|----------------------------------------------------------|-------------------------------------|
| Indoor unit model name                            | SRK50ZSX-WB                          | information relates to. Indicated values should          | d relate to one                     |
| Outdoor unit model name                           | SRC50ZSX-W1                          | 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                                 |
| neating                                           | Yes                                  | Colder(If designated)                                    | NO                                  |
| Item                                              | symbol value unit                    | Item                                                     | symbol value class                  |
| Design load                                       | Symbol Value unit                    | Seasonal efficiency and energy efficiency clas           | SS                                  |
| cooling                                           | Pdesignc 5.00 kW                     | cooling                                                  | SEER 8.30 A++                       |
| heating / Average                                 | Pdesignh 4.50 kW                     | heating / Average                                        | SCOP/A 4.70 A++                     |
| heating / Warmer                                  | Pdesignh 6.00 kW                     | heating / Warmer                                         | SCOP/W 5.90 A+++                    |
| heating / Colder                                  | Pdesignh - kW                        | heating / Colder                                         | SCOP/C                              |
|                                                   |                                      |                                                          | unit                                |
| Declared capacity at outdoor temperature Tde      | esignh                               | Back up heating capacity at outdoor temperat             | ture Tdesignh                       |
| heating / Average (-10°C)                         | Pdh <b>4.50</b> kW                   | heating / Average (-10°C)                                | elbu <b>0</b> kW                    |
| heating / Warmer (2°C)                            | Pdh 6.00 kW                          | heating / Warmer (2°C)                                   | elbu <b>0</b> kW                    |
| heating / Colder (-22°C)                          | Pdh - kW                             | heating / Colder (-22°C)                                 | elbu - kW                           |
|                                                   | $-7(10)^{9}$                         | Destand an entry offician superior stimula at index to a | 07(10) <sup>9</sup> 0 and           |
| Declared capacity for cooling, at indoor tempe    | erature 27(19)°C and                 | Declared energy efficiency ratio, at indoor ten          | nperature 27(19) <sup>-</sup> C and |
|                                                   |                                      |                                                          | EEDd 410                            |
| Tj=30°C                                           | Pdc 3.00 KW                          | Tj=30°C                                                  | EERU 4.10 -                         |
| Tj=30 C                                           | Pdc 3.70 KW                          | Ti=25°C                                                  | EERU <b>5.90</b> -                  |
| Tj=20°C                                           | Pdc 2.40 KW                          | Ti=20°C                                                  | EERd 18.30                          |
| 1]=20 C                                           | Fuc 1.50 KW                          | 1j-20 C                                                  | EERU 18.20 -                        |
| Declared capacity for heating / Average seaso     | on, at indoor                        | Declared coefficient of performance / Average            | e season, at indoor                 |
| temperature 20°C and outdoor temperature T        | j                                    | temperature 20°C and outdoor temperature T               | j                                   |
| Tj=-7℃                                            | Pdh 3.98 kW                          | Tj=-7°C                                                  | COPd 3.30 -                         |
| Tj=2°C                                            | Pdh 2.42 kW                          | Tj=2°C                                                   | COPd 4.64 -                         |
| Tj=7°C                                            | Pdh 1.56 kW                          | Tj=7°C                                                   | COPd 5.64 -                         |
| Tj=12°C                                           | Pdh 1.06 kW                          | Tj=12°C                                                  | COPd 7.20 -                         |
| Tj=bivalent temperature                           | Pdh 4.50 kW                          | Tj=bivalent temperature                                  | COPd 2.64 -                         |
| Tj=operating limit                                | Pdh 4.50 kW                          | Tj=operating limit                                       | COPd 2.64 -                         |
|                                                   | · · ·                                |                                                          | · · ·                               |
| Declared capacity for heating / Warmer seaso      | on, at indoor                        | Declared coefficient of performance / Warmen             | r season, at indoor                 |
| temperature 20°C and outdoor temperature 1        | J                                    | temperature 20°C and outdoor temperature 1               |                                     |
| 1j=2°C                                            | Pdh 6.00 kW                          | 1j=2°C                                                   | COPd 3.01 -                         |
| Tj=7°C                                            | Pdh 3.90 kW                          | Tj=7°C                                                   | COPd 5.35 -                         |
| Tj=12°C                                           | Pdh 1.70 kW                          | Ij=12°C                                                  | COPd 7.20 -                         |
| Tj=bivalent temperature                           | Pdh 6.00 kW                          | Tj=bivalent temperature                                  | COPd 3.01 -                         |
| I j=operating limit                               | Pdh 6.00 KVV                         | I j=operating limit                                      | COPd 3.01 -                         |
| Declared capacity for heating / Colder season     | at indoor                            | Declared coefficient of performance / Colder             | season at indoor                    |
| temperature 20°C and outdoor temperature T        | i                                    | temperature 20°C and outdoor temperature T               | i                                   |
| Ti=-7°C                                           | Pdh - kW                             | Ti=-7°C                                                  | COPd                                |
| Ti=2°C                                            | Pdh - kW                             | Ti=2°C                                                   | COPd                                |
| Tj=7℃                                             | 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°C                                          | Pdh - kW                             | Tj=-15℃                                                  | COPd                                |
|                                                   |                                      |                                                          |                                     |
| Bivalent temperature                              |                                      | Operating limit temperature                              |                                     |
| heating / Average                                 | Tbiv <u>-10</u> °C                   | heating / Average                                        | Tol <u>-10</u> °C                   |
| heating / Warmer                                  | Tbiv 2 °C                            | heating / Warmer                                         | Tol <u>2</u> °C                     |
| heating / Colder                                  | Tbiv - °C                            | heating / Colder                                         | Tol - °C                            |
| Cycling interval capacity                         |                                      | Cycling interval officiency                              |                                     |
| for cooling                                       |                                      | for cooling                                              | FEReve -                            |
| for heating                                       | Pcvch - kW                           | for heating                                              |                                     |
|                                                   |                                      |                                                          |                                     |
| Degradation coefficient                           |                                      | Degradation coefficient                                  |                                     |
| cooling                                           | Cdc 0.25 -                           | heating                                                  | Cdh 0.25 -                          |
|                                                   |                                      |                                                          |                                     |
| Electric power input in power modes other that    | an 'active mode'                     | Annual electricity consumption                           | 0                                   |
| oπ mode                                           | Pott 4 W                             | cooling                                                  | uce 211 kWh/a                       |
| stanuby mode                                      | PSD 4 W                              | neaung / Average                                         | Qne 1341 KVVn/a                     |
| arenkenen hester mede                             |                                      | heating / warrier                                        | Qite 1425 KVVII/a                   |
|                                                   |                                      | nearing / coluer                                         | Gue - Kwui/a                        |
| Capacity control(indicate one of three options    | )                                    | Other items                                              |                                     |
|                                                   | ,                                    | Sound power level(indoor)                                | Lwa 59 dB(A)                        |
|                                                   |                                      | Sound power level(outdoor)                               | Lwa 63 dB(A)                        |
| fixed                                             | No                                   | Global warming potential                                 | GWP 675 kgCO.eq                     |
| atogod                                            | No                                   | Beted air flow/indear)                                   | 0F0                                 |
|                                                   | NU Xee                               |                                                          | - 000 m <sup>-</sup> /n             |
| variable                                          | Yes                                  | Rated air flow(outdoor)                                  | - <b>2340</b> m³/h                  |
| Contact details for obtaining Name and            | address of the manufacturer or of it | s authorised representative                              |                                     |
| more information MHIAF SE                         | RVICES B.V.                          | a aanonoou representative.                               |                                     |
| Herikerber                                        | gweg 238, Luna ArenA, 1101 CM A      | msterdam, Netherlands                                    |                                     |
|                                                   |                                      |                                                          |                                     |
|                                                   |                                      |                                                          |                                     |

RWA000Z271

## Model SRK50ZSX-WB

| Information to identify the model(s) to which | the information relates to:      | If function includes heating: Indicate the hea  | ting season the                                |
|-----------------------------------------------|----------------------------------|-------------------------------------------------|------------------------------------------------|
| Indoor unit model name                        | SRK50ZSX-WB                      | information relates to. Indicated values should | Id relate to one                               |
| Outdoor unit model name                       | SRC50ZSX-W2                      | 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                                          | symbol value unit                | Item                                            | symbol value class                             |
| Design load                                   |                                  | Seasonal efficiency and energy efficiency cla   | ass                                            |
| cooling                                       | Pdesignc 5.00 kW                 | cooling                                         | SEER 8.30 A++                                  |
| heating / Average                             | Pdesignh 4.50 kW                 | heating / Average                               | SCOP/A 4.70 A++                                |
| heating / Warmer                              | Pdesignh 6.00 kW                 | heating / Warmer                                | SCOP/W 5.90 A+++                               |
| heating / Colder                              | Pdesignh - kW                    | heating / Colder                                | SCOP/C                                         |
| ů – Č                                         |                                  |                                                 | unit                                           |
| Declared capacity at outdoor temperature To   | designh                          | Back up heating capacity at outdoor tempera     | ature Tdesignh                                 |
| heating / Average (-10°C)                     | Pdh 4.50 kW                      | heating / Average (-10°C)                       | elbu <b>0</b> kW                               |
| heating / Warmer (2°C)                        | Pdh 6.00 kW                      | heating / Warmer (2°C)                          | elbu <b>0</b> kW                               |
| heating / Colder (-22°C)                      | Pdh - kW                         | heating / Colder (-22°C)                        | elbu - kW                                      |
| ······································        |                                  |                                                 |                                                |
| Declared capacity for cooling, at indoor temp | perature 27(19)°C and            | Declared energy efficiency ratio at indoor te   | mperature 27(19)°C and                         |
| outdoor temperature Ti                        |                                  | outdoor temperature Ti                          | inperatare 21(10) e ana                        |
| Ti=35℃                                        | Pdc 5.00 kW                      | Ti=35°C                                         | EERd 4.10 -                                    |
| Ti=30°C                                       | Pdc 370 kW                       | Ti=30°C                                         | EERd 590                                       |
| Tj=35°C                                       | Pdo <b>3.10</b> kW               | Ti-25°C                                         | EERd 9.90                                      |
| Tj=20°C                                       | Pdc 2.40 KW                      | Ti-20°C                                         | EEDd 18.30                                     |
| IJ-20 C                                       | Fuc 1.30 KW                      | 1j=20 C                                         | EERU 10.20 -                                   |
| Declared capacity for heating / Average and   | son at indoor                    | Declared coefficient of performance / August    | ne season at indoor                            |
| temperature 20°C and outdoor temperature      | son, al muuun<br>Fi              | temperature 20°C and outdoor temperature        | je season, al inuooi<br>Ti                     |
|                                               | 1j<br>Ddb <b>200</b> kW          | Tienperature 20 C and outdoor temperature       |                                                |
| 1j7 C                                         | Pull 3.30 KW                     | 1j/ C                                           |                                                |
| IJ=2 C                                        | Puñ 2.42 KW                      | 1j=2 C                                          |                                                |
| 1j=7 C                                        | Pan 1.56 KW                      | IJ=7 C                                          | CUPa <b>5.64</b> -                             |
| Tj=12℃                                        | Pdh <b>1.06</b> kW               | Tj=12℃                                          | COPd 7.20 -                                    |
| Tj=bivalent temperature                       | Pdh <b>4.50</b> kW               | Tj=bivalent temperature                         | COPd <b>2.64</b> -                             |
| Tj=operating limit                            | Pdh 4.50 kW                      | Tj=operating limit                              | COPd 2.64 -                                    |
|                                               |                                  |                                                 |                                                |
| Declared capacity for heating / Warmer seas   | son, at indoor                   | Declared coefficient of performance / Warme     | er season, at indoor                           |
| temperature 20°C and outdoor temperature      | Гј                               | temperature 20°C and outdoor temperature        | rj                                             |
| Tj=2°C                                        | Pdh 6.00 kW                      | Tj=2°C                                          | COPd 3.01 -                                    |
| Tj=7°C                                        | Pdh 3.90 kW                      | Tj=7°C                                          | COPd 5.35 -                                    |
| Tj=12°C                                       | Pdh 1.70 kW                      | Tj=12°C                                         | COPd 7.20 -                                    |
| Tj=bivalent temperature                       | Pdh 6.00 kW                      | Tj=bivalent temperature                         | COPd 3.01 -                                    |
| Tj=operating limit                            | Pdh 6.00 kW                      | Tj=operating limit                              | COPd 3.01 -                                    |
|                                               | • •                              | · · · ·                                         | <b>i</b>                                       |
| Declared capacity for heating / Colder seaso  | on, at indoor                    | Declared coefficient of performance / Colder    | season, at indoor                              |
| temperature 20°C and outdoor temperature      | Γί                               | temperature 20°C and outdoor temperature        | Γί                                             |
| Ti=-7℃                                        | Pdh - kW                         | Ti=-7°C                                         | COPd                                           |
| Ti=2°C                                        | Pdh - kW                         | Ti=2°C                                          | COPd                                           |
| Ti=7°C                                        | Pdh - kW                         | Ti=7°C                                          | COPd                                           |
| Ti=12°C                                       | Pdh - kW                         | Ti=12°C                                         | COPd -                                         |
| Ti=bivalent temperature                       | Pdh - kW                         | Ti=hivalent temperature                         | COPd -                                         |
| Ti-operating limit                            | Pdb kW                           | Ti-operating limit                              | COPd                                           |
|                                               | Pdh FW                           |                                                 | COPd                                           |
| IJ=-15 C                                      | Full - KW                        | 1j=-15 C                                        | COFU                                           |
| Divelent temperature                          |                                  | On anoting limit terms and up                   |                                                |
| beating / Average                             |                                  | beating / Average                               |                                                |
| heating / Wormor                              |                                  | heating / Warmar                                |                                                |
| heating / Warner                              |                                  | heating / Warner                                |                                                |
|                                               | - C                              | neating / Colder                                | - C                                            |
| Qualing interval consolity                    |                                  | Cycling interval officiants                     |                                                |
| for cooling                                   | Bayaa                            | for cooling                                     | EEBovo                                         |
| for booting                                   | Povoh                            | for booting                                     |                                                |
| ior neating                                   | Poyon - KVV                      | ior neating                                     | сорсус                                         |
| Degradation as finite t                       |                                  | Degradation on History                          |                                                |
| Degradation coefficient                       |                                  | Degradation coefficient                         |                                                |
| cooling                                       | Cac 0.25 -                       | neating                                         | Can 0.25 -                                     |
|                                               |                                  |                                                 |                                                |
| electric power input in power modes other th  |                                  | Annual electricity consumption                  | 000 244 104/6/-                                |
| on mode                                       |                                  | booting (Average                                | Que <u>211</u> KWN/a<br>Oba <u>4244</u> LW/F/- |
| stanuby mode                                  | PSD 4 W                          | heating / Average                               | Qne 1341 KWN/a                                 |
| thermostat-off mode                           | Pto 12 W                         | neating / warmer                                | une 1425 kWh/a                                 |
| crankcase heater mode                         | Рск <b>0</b> W                   | neating / colder                                | Qne - kWh/a                                    |
|                                               |                                  |                                                 |                                                |
| Capacity control(indicate one of three option | s)                               | Other items                                     |                                                |
|                                               |                                  | Sound power level(indoor)                       | Lwa <b>59</b> dB(A)                            |
|                                               |                                  | Sound power level(outdoor)                      | Lwa 63 dB(A)                                   |
| fixed                                         | No                               | Global warming potential                        | GWP 675 kgCO <sub>2</sub> eq.                  |
| staged                                        | No                               | Rated air flow(indoor)                          | - <b>858</b> m <sup>3</sup> /h                 |
| variable                                      | Vae                              | Pated air flow(cutdoor)                         | 2240 m <sup>3</sup> /h                         |
| valiable                                      | res                              | raled all llow(ouldoof)                         | - 2340 m/n                                     |
| Contact datails for obtaining                 | I address of the mean of the     | its outborized representative                   |                                                |
| more information                              |                                  | ns aumorised representative.                    |                                                |
| More mornauon MiniAE SE                       |                                  | Amsterdam Netherlands                           |                                                |
| Henkerbe                                      | igweg 200, Luna AlenA, TTUT CM A | anoterdani, incluctionub                        |                                                |
|                                               |                                  |                                                 |                                                |
| L                                             |                                  |                                                 |                                                |

## Model SRK60ZSX-WB

| Information to identify the model(s) to which | the information  | relates to:          | If function includes heating: Indicate the heat | ting season '  | the          |                       |
|-----------------------------------------------|------------------|----------------------|-------------------------------------------------|----------------|--------------|-----------------------|
| Indoor unit model name                        | SRK60ZSX-V       | VB                   | information relates to. Indicated values shou   | Id relate to o | one          |                       |
| Outdoor unit model name                       | SRC60ZSX-V       | V                    | neating season at a time. Include at least the  | e neating sea  | ason 'Averaç | ge'.                  |
| Function(indicate if present)                 |                  |                      | Average(mandatory)                              | Yes            |              |                       |
| cooling                                       | Yes              |                      | Warmer(if designated)                           | Yes            |              |                       |
| heating                                       | Yes              |                      | Colder(if designated)                           | No             |              |                       |
|                                               |                  |                      |                                                 |                |              |                       |
| Item                                          | symbol va        | alue unit            | Item                                            | symbol         | value        | class                 |
|                                               | Pdesigno         | 610 kW               | Seasonal efficiency and energy efficiency cla   | 3SS<br>SEER    | 7 80         | Δ++                   |
| heating / Average                             | Pdesignb         | 5.20 kW              | heating / Average                               | SCOP/A         | 4.70         | A++                   |
| heating / Warmer                              | Pdesignh         | 6.80 kW              | heating / Warmer                                | SCOP/W         | 5.80         | A+++                  |
| heating / Colder                              | Pdesignh         | - kW                 | heating / Colder                                | SCOP/C         | -            | -                     |
|                                               |                  |                      |                                                 |                |              | unit                  |
| Declared capacity at outdoor temperature T    | designh          | <b>5 20</b> Iki//    | Back up heating capacity at outdoor tempera     | ature Tdesigi  | nh           | L\\/                  |
| heating / Average (-10 C)                     | Pan<br>Dah       | 5.20 KVV             | heating / Average (-10 C)                       | elbu           | 0            |                       |
| heating / Colder (-22°C)                      | Pdh              | - kW                 | heating / Colder (-22°C)                        | elbu           | -            | kW                    |
|                                               | . un             |                      |                                                 | 0.00           | 1            |                       |
| Declared capacity for cooling, at indoor tem  | perature 27(19)  | °C and               | Declared energy efficiency ratio, at indoor te  | mperature 2    | ?(19)°C and  |                       |
| outdoor temperature Tj                        |                  | <b>_</b> _           | outdoor temperature Tj                          |                |              |                       |
| Tj=35℃                                        | Pdc              | 6.10 kW              | Tj=35°C                                         | EERd           | 3.60         | -                     |
| Ij=30℃<br>T:=05°0                             | Pdc              | 4.50 kW              | ]]=30°C                                         | EERd           | 5.40         | -                     |
| Tj=25 C                                       | Pac<br>Pdc       | 2.90 KVV             | Tj=25 C                                         | EERd           | 9.00         | -                     |
| 1]=20 C                                       | Fuc              | 1.00                 | 1j-20 C                                         | LLINU          | 10.40        | -                     |
| Declared capacity for heating / Average sea   | son, at indoor   |                      | Declared coefficient of performance / Average   | ge season, a   | at indoor    |                       |
| temperature 20°C and outdoor temperature      | Tj               | <u>.</u>             | temperature 20°C and outdoor temperature        | Гј             |              |                       |
| Tj=-7°C                                       | Pdh              | 4.70 kW              | Tj=-7°C                                         | COPd           | 3.10         | -                     |
| Tj=2℃                                         | Pdh              | 2.80 kW              | Tj=2℃                                           | COPd           | 4.65         | -                     |
| j=/ <sup>-</sup> C                            | Pan              | 1.80 KVV             | 1j=/°C                                          | COPd           | 5.86         | -                     |
| Tj=12 C                                       | Puli<br>Pdb      | 5.20 kW              | Ti=hivalent temperature                         | COPd           | 2.45         | -                     |
| Ti=operating limit                            | Pdh              | 5.20 kW              | Ti=operating limit                              | COPd           | 2.45         | _                     |
|                                               |                  |                      | ·) · · · · · · · · · · · · · · · · · ·          |                |              |                       |
| Declared capacity for heating / Warmer sea    | son, at indoor   |                      | Declared coefficient of performance / Warme     | er season, a   | t indoor     |                       |
| temperature 20°C and outdoor temperature      | Тј               |                      | temperature 20°C and outdoor temperature        | Гj             |              |                       |
| Ij=2℃<br>T:=-7℃                               | Pdh              | 6.80 kW              | Ij=2℃<br>T≔-7°0                                 | COPd           | 2.70         | -                     |
| j=/ <sup>-</sup> C                            | Pan<br>Dah       | 4.37 KVV             | Ti=12°C                                         | COPd           | 5.16         | -                     |
| Ti=hivalent temperature                       | Pdh              | 6.80 kW              | Ti=hivalent temperature                         | COPd           | 2 70         | _                     |
| Ti=operating limit                            | Pdh              | 6.80 kW              | Ti=operating limit                              | COPd           | 2.70         | _                     |
|                                               |                  |                      |                                                 |                |              |                       |
| Declared capacity for heating / Colder sease  | on, at indoor    |                      | Declared coefficient of performance / Colder    | season, at i   | indoor       |                       |
| temperature 20°C and outdoor temperature      | Tj               |                      | temperature 20°C and outdoor temperature        | Гј<br>ООР I    |              |                       |
| 1j=-7°C                                       | Pan<br>Dah       | - KVV                | 1j=-7°C                                         | COPd           | -            | -                     |
| Tj=2 C                                        | Pdh              | - KW                 | $T_{i=7}^{\circ}C$                              | COPd           | -            | -                     |
| Ti=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           | -            | -                     |
|                                               |                  |                      |                                                 |                |              |                       |
| Bivalent temperature                          | Thiv             | -10 %                | Operating limit temperature                     | Tol            | -10          | °C                    |
| heating / Warmer                              | Thiv             | 2 0                  | heating / Warmer                                | Tol            | -10          | °C                    |
| heating / Colder                              | Tbiv             | - °C                 | heating / Colder                                | Tol            |              | °C                    |
|                                               |                  |                      |                                                 |                | · · ·        |                       |
| Cycling interval capacity                     |                  |                      | Cycling interval efficiency                     |                |              |                       |
| for cooling                                   | Pcycc            | - kW                 | for cooling                                     | EERcyc         |              | -                     |
| tor neating                                   | Pcych            | - KVV                | ror neating                                     | COPcyc         | -            | -                     |
| Degradation coefficient                       |                  |                      | Degradation coefficient                         |                |              |                       |
| cooling                                       | Cdc              | 0.25 -               | heating                                         | Cdh            | 0.25         | -                     |
|                                               |                  |                      |                                                 |                |              |                       |
| Electric power input in power modes other t   | nan 'active mod  | e'                   | Annual electricity consumption                  | 0              | 07.          |                       |
| on mode                                       | Pott             | 4 W                  | cooling                                         | QCe<br>Obc     | 274          | kWn/a                 |
| thermostat-off mode                           | Pto              | + V<br>12 W          | heating / Average                               | Ohe            | 1643         | kWh/a                 |
| crankcase heater mode                         | Pck              | 0 W                  | heating / colder                                | Qhe            | -            | kWh/a                 |
|                                               |                  |                      | ·                                               |                |              | -                     |
| Capacity control(indicate one of three option | is)              |                      | Other items                                     |                |              |                       |
|                                               |                  |                      | Sound power level(indoor)                       | Lwa            | 62           | dB(A)                 |
|                                               |                  |                      | Sound power level(outdoor)                      | Lwa            | 65           | dB(A)                 |
| fixed                                         | No               |                      | Global warming potential                        | GWP            | 675          | kgCO <sub>2</sub> eq. |
| staged                                        | No               |                      | Rated air flow(indoor)                          | -              | 978          | m³/h                  |
| variable                                      | Yes              |                      | Rated air flow(outdoor)                         | -              | 2490         | m³/h                  |
|                                               | d a dalara - Kii |                      | 14                                              |                |              |                       |
| more information MHIAE S                      | address of the   | e manufacturer or of | us authorised representative.                   |                |              |                       |
| Herikerbe                                     | rgweg 238, Lur   | na ArenA, 1101 CM    | Amsterdam, Netherlands                          |                |              |                       |
|                                               |                  |                      |                                                 |                |              |                       |
|                                               |                  |                      |                                                 |                |              |                       |
|                                               |                  |                      | -                                               |                |              |                       |

# Model SRK60ZSX-WB

| Information to identify the model(s) to which t | he information relates to:  |             | If function includes heating: Indicate the heati | ng season t    | he            |                   |
|-------------------------------------------------|-----------------------------|-------------|--------------------------------------------------|----------------|---------------|-------------------|
| Indoor unit model name                          | SRK60ZSX-WB                 |             | information relates to. Indicated values should  | d relate to or | ne            |                   |
| Outdoor unit model name                         | SRC60ZSX-W1                 |             | heating season at a time. Include at least the   | heating sea    | ison 'Average | e'.               |
| Eunction(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                                             | symbol         | value         | class             |
| cooling                                         | Pdesianc 6.10 kW            |             | cooling                                          | SEER           | 7.80          | A++               |
| heating / Average                               | Pdesignh 5.20 kW            |             | heating / Average                                | SCOP/A         | 4.70          | A++               |
| heating / Warmer                                | Pdesignh 6.80 kW            |             | heating / Warmer                                 | SCOP/W         | 5.80          | A+++              |
| heating / Colder                                | Pdesignh - kW               |             | heating / Colder                                 | SCOP/C         | -             | -                 |
| Declared capacity at outdoor temperature Td     | esianh                      |             | Back up beating capacity at outdoor temperat     | ture Tdesiar   | h             | unit              |
| heating / Average (-10°C)                       | Pdh 5.20 kW                 |             | heating / Average (-10°C)                        | elbu           | 0             | kW                |
| heating / Warmer (2°C)                          | Pdh 6.80 kW                 |             | heating / Warmer (2°C)                           | elbu           | 0             | kW                |
| heating / Colder (-22°C)                        | Pdh - kW                    |             | heating / Colder (-22°C)                         | elbu           | -             | kW                |
| Declared conseits for eacling, at indeer terms  | 27(10)°0 and                |             | Deslaved energy officiency ratio at indeer to    | an aratura 0   | 7/10)°O and   |                   |
| outdoor temperature Ti                          | erature 27(19) C and        |             | outdoor temperature Ti                           | iiperature zi  | (19) C and    |                   |
| Tj=35°C                                         | Pdc 6.10 kW                 |             | Tj=35°C                                          | EERd           | 3.60          | -                 |
| Tj=30°C                                         | Pdc 4.50 kW                 |             | Tj=30°C                                          | EERd           | 5.40          | -                 |
| Tj=25°C                                         | Pdc 2.90 kW                 |             | Tj=25°C                                          | EERd           | 9.00          | -                 |
| Tj=20°C                                         | Pdc 1.60 kW                 |             | Tj=20°C                                          | EERd           | 18.40         | -                 |
| Declared capacity for heating / Average seas    | on at indoor                |             | Declared coefficient of performance / Average    | e season at    | indoor        |                   |
| temperature 20°C and outdoor temperature T      | ]                           |             | temperature 20°C and outdoor temperature T       | j              |               |                   |
| Tj=-7°C                                         | Pdh <b>4.70</b> kW          |             | Tj=-7°C                                          | COPd           | 3.10          | -                 |
| Tj=2°C                                          | Pdh 2.80 kW                 |             | Tj=2°C                                           | COPd           | 4.65          | -                 |
| Tj=7°C                                          | Pdh 1.80 kW                 |             | Tj=7°C                                           | COPd           | 5.86          | -                 |
| Tj=12 C                                         | Pan 1.10 KW<br>Pdb 5.20 kW  |             | Tj=12 C<br>Ti=biyalent temperature               | COPd           | 2.45          |                   |
| Ti=operating limit                              | Pdh 5.20 kW                 |             | Ti=operating limit                               | COPd           | 2.45          | _                 |
|                                                 |                             |             | <u> </u>                                         |                |               |                   |
| Declared capacity for heating / Warmer sease    | on, at indoor               |             | Declared coefficient of performance / Warme      | r season, at   | indoor        |                   |
| temperature 20°C and outdoor temperature 1      |                             |             | temperature 20°C and outdoor temperature 1       | )<br>L         | 2 70          |                   |
| Ti=7°C                                          | Pdh 4.37 kW                 |             | Ti=7°C                                           | COPd           | 5.16          |                   |
| Tj=12°C                                         | Pdh <b>1.94</b> kW          |             | Tj=12°C                                          | COPd           | 7.31          | -                 |
| Tj=bivalent temperature                         | Pdh 6.80 kW                 |             | Tj=bivalent temperature                          | COPd           | 2.70          | -                 |
| Tj=operating limit                              | Pdh 6.80 kW                 |             | Tj=operating limit                               | COPd           | 2.70          | -                 |
| Declared appeality for beating / Colder appear  | , at indeer                 |             | Dealarad apofficiant of parformance / Colder     | accord at in   | adoor         |                   |
| temperature 20°C and outdoor temperature T      | i, al muoor                 |             | temperature 20°C and outdoor temperature T       | i              | 10001         |                   |
| 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           | -             | -                 |
| I J=12°C                                        | Pdh - kW                    |             | I J=12°C                                         | COPd           | -             | -                 |
| Ti=operating limit                              | Pdh - kW                    |             | Ti=operating limit                               | COPd           | -             |                   |
| Tj=-15°C                                        | Pdh - kW                    |             | Tj=-15°C                                         | COPd           | -             | _                 |
|                                                 |                             |             |                                                  |                | 1 1           |                   |
| Bivalent temperature                            |                             |             | Operating limit temperature                      |                |               |                   |
| heating / Average                               | Tbiv -10 °C                 |             | heating / Average                                | Tol            | -10           | с<br>°С           |
| heating / Warner                                | Thiv 2°C                    |             | heating / Warner                                 | Tol            | 2             | ິ<br>ເ            |
|                                                 |                             |             |                                                  | 101            | 1 1           | 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 other that  | an 'active mode'            |             | Annual electricity consumption                   | 0.00           | 074           | W/h/a             |
| standby mode                                    | Psb <b>4</b> W              |             | heating / Average                                | Qhe            | 1551          | kWh/a             |
| thermostat-off mode                             | Pto 12 W                    |             | heating / Warmer                                 | Qhe            | 1643          | kWh/a             |
| crankcase heater mode                           | Pck 0 W                     |             | heating / colder                                 | Qhe            | -             | kWh/a             |
|                                                 |                             |             |                                                  |                |               |                   |
| Capacity control(indicate one of three options  | ;)                          |             | Other Items                                      | Lwa            | 62            |                   |
|                                                 |                             |             | Sound power level(indoor)                        | Lwa            | 65            | dB(A)             |
| fixed                                           | No                          |             | Global warming potential                         | GWP            | 675           | kqCO₂ea.          |
| staged                                          | No                          |             | Rated air flow(indoor)                           | -              | 978           | m <sup>3</sup> /h |
| variable                                        | Yes                         |             | Rated air flow(nitdoor)                          | _              | 2490          | m <sup>3</sup> /h |
|                                                 | 100                         |             |                                                  |                | 2400          |                   |
| Contact details for obtaining Name and          | address of the manufacturer | r or of its | s authorised representative.                     |                |               |                   |
| more information MHIAE SE                       | RVICES B.V.                 | 1 014 4     | natardam. Natharlanda                            |                |               |                   |
| Herikerbei                                      | gweg 238, Luna ArenA, 110   | I CM An     | nsterdam, ivetnerländs                           |                |               |                   |
|                                                 |                             |             |                                                  |                |               |                   |
| ·                                               |                             | -           | ]                                                |                |               |                   |

## Model SRK20ZSX-WT

| Information to identify the model(s) to which | the information relates to:             | If function includes heating: Indicate the hea | ting season the                       |
|-----------------------------------------------|-----------------------------------------|------------------------------------------------|---------------------------------------|
| Indoor unit model name                        | SRK20ZSX-WT                             | information relates to. Indicated values shou  | ld relate to one                      |
| Outdoor unit model name                       | SRC20ZSX-W                              | neating season at a time. Include at least the | e neating 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                    |
|                                               | Pdesigne 200 kW                         | Seasonal efficiency and energy efficiency cla  | 3SS<br>SEER 10.00 4+++                |
| heating / Average                             | Pdesignb 2.80 kW                        | heating / Average                              | SCOP/A 5.20 A+++                      |
| heating / Warmer                              | Pdesignh 3.70 kW                        | heating / Warmer                               | SCOP/W 6.70 A+++                      |
| heating / Colder                              | Pdesignh - kW                           | heating / Colder                               | SCOP/C                                |
|                                               |                                         |                                                | unit                                  |
| Declared capacity at outdoor temperature To   | designh                                 | Back up heating capacity at outdoor tempera    | ature Tdesignh                        |
| heating / Average (-10°C)                     | Pdn 2.80 KW                             | heating / Average (-10°C)                      |                                       |
| heating / Warner (2 C)                        | Pdh - kW                                | heating / Colder (-22°C)                       | elbu - kW                             |
|                                               |                                         | 1004.1.1g / 001001 ( 22 0)                     |                                       |
| Declared capacity for cooling, at indoor temp | perature 27(19)°C and                   | Declared energy efficiency ratio, at indoor te | mperature 27(19)°C and                |
| outdoor temperature Tj                        |                                         | outdoor temperature Tj                         |                                       |
| Tj=35℃                                        | Pdc 2.00 kW                             | Tj=35°C                                        | EERd <b>6.45</b> -                    |
| Tj=30℃                                        | Pdc 1.47 kW                             | Tj=30°C                                        | EERd 9.29 -                           |
| Tj=20°C                                       | Pdc 1.25 KW                             | Tj=25°C                                        | EERd 13.90 -                          |
| 1j=20 C                                       | Fuc 1.36 KW                             | 1j-20 C                                        | EERd 20.70 -                          |
| Declared capacity for heating / Average sea   | son, at indoor                          | Declared coefficient of performance / Average  | ge season, at indoor                  |
| temperature 20°C and outdoor temperature      | Гј                                      | temperature 20°C and outdoor temperature       | Tj                                    |
| Tj=-7°C                                       | Pdh <b>2.40</b> kW                      | Tj=-7°C                                        | COPd <b>3.20</b> -                    |
| Tj=2°C                                        | Pdh <b>1.48</b> kW                      | Tj=2°C                                         | COPd 5.30 -                           |
| IJ=/°C                                        | Pah 0.96 kW                             | ]=7°C                                          | COPd 6.50 -                           |
| Tj=12°C                                       | Pdn 0.96 KW                             | Tj=12°C                                        | COPd 8.28 -                           |
| Ti=operating limit                            | Pdh 2.80 kW                             | Ti=operating limit                             | COPd 2.79 -                           |
|                                               | 1 411 2.00                              |                                                |                                       |
| Declared capacity for heating / Warmer seas   | son, at indoor                          | Declared coefficient of performance / Warm     | er season, at indoor                  |
| temperature 20°C and outdoor temperature      | гј                                      | temperature 20°C and outdoor temperature       | Гј                                    |
| Tj=2°C                                        | Pdh <b>3.70</b> kW                      | Tj=2°C                                         | COPd 3.40 -                           |
| Tj=7℃                                         | Pdh 2.40 kW                             | Tj=7℃                                          | COPd 6.12 -                           |
| IJ=12 C<br>Ti=bivelent temperature            | Pdn 1.10 kW                             | Tj=12 C                                        | COPd 8.21 -                           |
| Ti=operating limit                            | Pdh 3.70 kW                             | Ti=operating limit                             | COPd 3.40 -                           |
| ·) · · · · · · · · · · · · · · · · · ·        |                                         | · J · P · · · · · · · · · · ·                  |                                       |
| Declared capacity for heating / Colder seaso  | n, at indoor                            | Declared coefficient of performance / Colder   | season, at indoor                     |
| temperature 20°C and outdoor temperature      | Гј                                      | temperature 20°C and outdoor temperature       | Гј                                    |
| Tj=-7℃<br>Ti=-2°0                             | Pdh - kW                                | Tj=-7℃                                         | COPd                                  |
| 1j=2°C                                        | Pdn - KVV                               | 1j=2°C                                         |                                       |
| Ti=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℃                                        | COPd                                  |
|                                               |                                         |                                                |                                       |
| Bivalent temperature                          |                                         | Operating limit temperature                    |                                       |
| heating / Warmer                              | Tbiv -10 C                              | heating / Warmer                               | Tol 2 °C                              |
| heating / Colder                              | Thiv - °C                               | heating / Colder                               |                                       |
| induing / contoi                              |                                         | rioa (ing / Coldor                             |                                       |
| 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 the | an 'active mode'                        | Annual electricity consumption                 |                                       |
| ott mode                                      | Poff 4 W                                | cooling                                        | Qce 70 kWh/a                          |
| standby mode                                  | PS0 4 W                                 | heating / Average                              | Qrie <b>/54</b> kWh/a                 |
| crankcase beater mode                         | Pok 0 W                                 | heating / colder                               | Ohe kWh/a                             |
|                                               | • • •                                   |                                                | A A A A A A A A A A A A A A A A A A A |
| Capacity control(indicate one of three option | s)                                      | Other items                                    |                                       |
|                                               |                                         | Sound power level(indoor)                      | Lwa <b>53</b> dB(A)                   |
|                                               |                                         | Sound power level(outdoor)                     | Lwa <b>56</b> dB(A)                   |
| fixed                                         | No                                      | Global warming potential                       | GWP 675 kgCO <sub>2</sub> eq.         |
| staged                                        | No                                      | Rated air flow(indoor)                         | - <b>678</b> m³/h                     |
| variable                                      | Yes                                     | Rated air flow(outdoor)                        | - <b>1860</b> m <sup>3</sup> /h       |
|                                               |                                         | <u> </u>                                       |                                       |
| Contact details for obtaining Name and        | address of the manufacturer or of       | its authorised representative.                 |                                       |
| Herikerbe                                     | raweg 238, Luna ArenA 1101 CM           | Amsterdam, Netherlands                         |                                       |
|                                               | 5 .5, _a.a, , , , , , , , , , , , , , , |                                                |                                       |
|                                               |                                         |                                                |                                       |
|                                               |                                         | г                                              |                                       |

## Model SRK25ZSX-WT

| Information to identify the model(s) to which | the information relates to | ):           | If function includes heating: Indicate the heat | ting season    | the          |                       |
|-----------------------------------------------|----------------------------|--------------|-------------------------------------------------|----------------|--------------|-----------------------|
| Indoor unit model name                        | SRK25ZSX-WT                |              | information relates to. Indicated values shou   | ld relate to c | one          |                       |
| Outdoor unit model name                       | SRC25ZSX-W                 |              | heating season at a time. Include at least the  | neating sea    | ason 'Averag | je'.                  |
| Function(indicate if present)                 |                            |              | Average(mandatory)                              | Yes            |              |                       |
| cooling                                       | Yes                        |              | Warmer(if designated)                           | Yes            |              |                       |
| heating                                       | Yes                        |              | Colder(if designated)                           | No             |              |                       |
|                                               |                            |              |                                                 |                |              |                       |
| Item                                          | symbol value u             | unit         | Item                                            | symbol         | value        | class                 |
|                                               | Pdesigne 2.50              | k/M          | Seasonal emiciency and energy emiciency cla     | ISS<br>SEER    | 10 30        | Δ+++                  |
| heating / Average                             | Pdesigne 2.00              | kW           | heating / Average                               | SCOP/A         | 5.20         | A+++                  |
| heating / Warmer                              | Pdesignh 4.20              | kW           | heating / Warmer                                | SCOP/W         | 6.60         | A+++                  |
| heating / Colder                              | Pdesignh - I               | kW           | heating / Colder                                | SCOP/C         | -            | -                     |
|                                               |                            |              |                                                 |                |              | unit                  |
| Declared capacity at outdoor temperature To   | Jesignh                    |              | Back up heating capacity at outdoor tempera     | iture Tdesig   | nh           | L\A/                  |
| heating / Average (-10 C)                     | Pdn 3.00 Pdh 4.20 Pdh      |              | heating / Average (-10 C)                       | elbu           | 0            |                       |
| heating / Colder (-22°C)                      | Pdh -                      | kW           | heating / Colder (-22°C)                        | elbu           | -            | kW                    |
|                                               |                            |              | 110dang/ 00ld01 (22 0)                          | 0.00           | 1            |                       |
| Declared capacity for cooling, at indoor temp | perature 27(19)°C and      |              | Declared energy efficiency ratio, at indoor te  | mperature 2    | 27(19)°C and |                       |
| outdoor temperature Tj                        | ·                          |              | outdoor temperature Tj                          |                |              |                       |
| Tj=35℃                                        | Pdc 2.50                   | kW           | Tj=35℃                                          | EERd           | 5.68         | -                     |
| lj=30℃<br>Ti=05°o                             | Pdc 1.84                   | KVV          | Ij=30℃<br>Ti=o5°o                               | EERd           | 8.75         | -                     |
| Tj=25 C                                       | Pdc 1.27                   |              | TJ=25 C<br>Ti=20℃                               | EERO           | 14.10        | -                     |
| 1]=20 C                                       | Fuc 1.40                   |              | 1j=20 C                                         | LLINU          | 20.40        | -                     |
| Declared capacity for heating / Average sea   | son, at indoor             |              | Declared coefficient of performance / Average   | je season, a   | at indoor    |                       |
| temperature 20°C and outdoor temperature      | Гј                         |              | temperature 20°C and outdoor temperature        | rj             |              |                       |
| Tj=-7°C                                       | Pdh 2.61                   | kW           | Tj=-7℃                                          | COPd           | 3.15         | -                     |
| Tj=2℃                                         | Pdh 1.59                   | kW           | Tj=2℃<br>Ti=7°0                                 | COPd           | 5.30         | -                     |
| 1j=7°C                                        | Pdn 1.03                   | KVV          | Tj=7°C                                          | COPd           | 6.58         | -                     |
| Tj=12 C<br>Ti=biyalent temperature            | Pdh 3.00 L                 | κνν<br>k\//  | Ti=hivalent temperature                         | COPd           | 2.69         | -                     |
| Ti=operating limit                            | Pdh 3.00                   | kW           | Ti=operating limit                              | COPd           | 2.69         | -                     |
| ·) ·p··································       |                            |              | () openeurig mini                               |                |              |                       |
| Declared capacity for heating / Warmer seas   | son, at indoor             |              | Declared coefficient of performance / Warme     | er season, a   | t indoor     |                       |
| temperature 20°C and outdoor temperature      | Гј                         |              | temperature 20°C and outdoor temperature 1      | ij             |              |                       |
| lj=2°C<br>T≔7°O                               | Pdh 4.20                   | KVV          | Ij=2℃<br>Ti=7°0                                 | COPd           | 3.30         | -                     |
| Tj=7°C                                        | Pdn 2.70 H                 | KVV          | IJ=7°C                                          | COPd           | 5.90         | -                     |
| Tj=12 C                                       | Pdh 420                    | kW           | Ti=hivalent temperature                         | COPd           | 3.30         | _                     |
| Ti=operating limit                            | Pdh 4.20                   | kW           | Ti=operating limit                              | COPd           | 3.30         | _                     |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,       |                            |              |                                                 |                |              |                       |
| Declared capacity for heating / Colder seaso  | on, at indoor              |              | Declared coefficient of performance / Colder    | season, at i   | indoor       |                       |
| temperature 20°C and outdoor temperature      | Гј<br>                     |              | temperature 20°C and outdoor temperature        | ij<br>OOD I    |              |                       |
| Tj=-/ <sup>-</sup> C                          | Pan - H                    | KVV          | IJ=-7°C<br>Ti=2°C                               | COPd           | -            | -                     |
| Tj=2 C                                        | Pdh - I                    | k\//         | Tj=2 ℃                                          | COPd           | -            | -                     |
| Ti=12°C                                       | Pdh - H                    | kW           | Ti=12°C                                         | COPd           | -            | -                     |
| Tj=bivalent temperature                       | Pdh - H                    | kW           | Tj=bivalent temperature                         | COPd           | -            | -                     |
| Tj=operating limit                            | Pdh - H                    | kW           | Tj=operating limit                              | COPd           | -            | -                     |
| Tj=-15℃                                       | Pdh - H                    | kW           | Tj=-15℃                                         | COPd           | -            | -                     |
|                                               |                            |              |                                                 |                |              |                       |
| Bivalent temperature                          | Thiv -10                   | °C           | Operating limit temperature                     | Tol            | -10          | °C                    |
| heating / Warmer                              | Thiv -10                   | °C           | heating / Warmer                                | Tol            | -10          | °C                    |
| heating / Colder                              | Tbiv -                     | °C           | heating / Colder                                | Tol            |              | °C                    |
|                                               | I                          |              |                                                 |                | · · ·        |                       |
| Cycling interval capacity                     |                            |              | Cycling interval efficiency                     |                |              |                       |
| for cooling                                   | Pcycc - I                  | kW           | for cooling                                     | EERcyc         |              | -                     |
| tor neating                                   | Proyon - I                 | KVV          | tor neating                                     | COPcyc         | -            | -                     |
| Degradation coefficient                       |                            |              | Degradation coefficient                         |                |              |                       |
| cooling                                       | Cdc 0.25                   | -            | heating                                         | Cdh            | 0.25         | -                     |
|                                               |                            |              |                                                 |                |              |                       |
| Electric power input in power modes other th  | an 'active mode'           |              | Annual electricity consumption                  | 0              |              |                       |
| OTT MODE                                      | Pott 4                     | VV<br>W      | cooling                                         | Qce            | 85           | kWh/a                 |
| thermostat-off mode                           | Pto 11                     | Ŵ            | heating / Warmer                                | Ohe            | 891          | kWh/a                 |
| crankcase heater mode                         | Pck 0                      | Ŵ            | heating / colder                                | Qhe            | -            | kWh/a                 |
|                                               |                            |              |                                                 |                | 1 1          |                       |
| Capacity control(indicate one of three option | s)                         |              | Other items                                     |                |              |                       |
|                                               |                            |              | Sound power level(indoor)                       | Lwa            | 55           | dB(A)                 |
|                                               | <b>—</b>                   |              | Sound power level(outdoor)                      | Lwa            | 57           | dB(A)                 |
| fixed                                         | No                         |              | Global warming potential                        | GWP            | 675          | kgCO <sub>2</sub> eq. |
| staged                                        | No                         |              | Rated air flow(indoor)                          | -              | 732          | m³/h                  |
| variable                                      | Yes                        |              | Rated air flow(outdoor)                         | -              | 1860         | m³/h                  |
|                                               |                            |              | to another in a superson of the                 |                |              |                       |
| more information                              | address of the manufac     | urer or of i | us authorised representative.                   |                |              |                       |
| Herikerbe                                     | rgweg 238, Luna ArenA.     | 1101 CM A    | Amsterdam, Netherlands                          |                |              |                       |
|                                               | /                          |              |                                                 |                |              |                       |
|                                               |                            |              |                                                 |                |              |                       |
|                                               |                            |              | Г                                               |                |              |                       |

## Model SRK35ZSX-WT

| Information to identify the model(s) to which | the information relates to:        | If function includes heating: Indicate the heat | ating season the                     |
|-----------------------------------------------|------------------------------------|-------------------------------------------------|--------------------------------------|
| Indoor unit model name                        | SRK35ZSX-WT                        | information relates to. Indicated values shou   | Ild relate to one                    |
| Outdoor unit model name                       | SRC35ZSX-W                         | neating season at a time. Include at least th   | e 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                   |
|                                               | Pdesigne 3.50 kW                   | Seasonal emiciency and energy emiciency c       | ASS<br>SEER 950 A+++                 |
| heating / Average                             | Pdesignb 3.40 kW                   | heating / Average                               | SCOP/A 5.10 A+++                     |
| heating / Warmer                              | Pdesignh 4.70 kW                   | heating / Warmer                                | SCOP/W 6.50 A+++                     |
| heating / Colder                              | Pdesignh - kW                      | heating / Colder                                | SCOP/C                               |
|                                               |                                    |                                                 | unit                                 |
| Declared capacity at outdoor temperature To   | designh                            | Back up heating capacity at outdoor temper      | ature Tdesignh                       |
| heating / Average (-10 C)                     | Pan 3.40 KW                        | heating / Average (-10 C)                       | elbu <b>U</b> kW                     |
| heating / Colder (-22°C)                      | Pdh - kW                           | heating / Colder (-22°C)                        | elbu - kW                            |
|                                               |                                    |                                                 | 0.00                                 |
| Declared capacity for cooling, at indoor temp | perature 27(19)°C and              | Declared energy efficiency ratio, at indoor te  | emperature 27(19)°C and              |
| outdoor temperature Tj                        |                                    | outdoor temperature Tj                          |                                      |
| Tj=35℃                                        | Pdc 3.50 kW                        | Tj=35°C                                         | EERd <b>4.73</b> -                   |
| lj=30℃<br>Ti=05°o                             | Pdc 2.58 kW                        | Ij=30°C                                         | EERd 7.29 -                          |
| Tj=20°C                                       | Pac 1.66 KW                        | Tj=25°C                                         | EER0 12.43 -                         |
| 1j=20 C                                       | Fuc 1.36 KW                        | 1j-20 C                                         | EERu 19.00 -                         |
| Declared capacity for heating / Average sea   | son, at indoor                     | Declared coefficient of performance / Avera     | ge season, at indoor                 |
| temperature 20°C and outdoor temperature      | Гј                                 | temperature 20°C and outdoor temperature        | Тј                                   |
| Tj=-7°C                                       | Pdh 2.95 kW                        | Tj=-7℃                                          | COPd 3.10 -                          |
| Tj=2°C                                        | Pdh <b>1.77</b> kW                 | Tj=2°C                                          | COPd 5.18 -                          |
| lj=7℃<br>Ti=40°0                              | Pdh 1.20 kW                        | Ij=7℃<br>Ti=10°0                                | COPd 6.45 -                          |
| IJ=12 C<br>Ti=biyalent temperature            | Pan 1.00 KW                        | Tj=12 C                                         | COPd 8.10 -                          |
| Ti=operating limit                            | Pdh 3.40 kW                        |                                                 | COPd 2.61                            |
|                                               |                                    | ij oporazing mine                               |                                      |
| Declared capacity for heating / Warmer seas   | son, at indoor                     | Declared coefficient of performance / Warm      | er season, at indoor                 |
| temperature 20°C and outdoor temperature      | Гј                                 | temperature 20°C and outdoor temperature        | Tj                                   |
| Tj=2℃                                         | Pdh <b>4.70</b> kW                 | Tj=2℃                                           | COPd 3.10 -                          |
| lj=7℃<br>Ti=12℃                               | Pdh 3.00 kW                        |                                                 | COPd 5.80 -                          |
| Tj=12 C                                       | Pdn 1.30 KW                        | Tj=12 C                                         | COPd 310                             |
| Ti=operating limit                            | Pdh <b>4.70</b> kW                 | Ti=operating limit                              | COPd 3.10 -                          |
| ·) · · · · · · · · · · · · · · · · · ·        |                                    | ·) ·p ·· · · · · · · · · · · · · · · · ·        |                                      |
| Declared capacity for heating / Colder seaso  | n, at indoor                       | Declared coefficient of performance / Colde     | r season, at indoor                  |
| temperature 20°C and outdoor temperature      | Гј                                 | temperature 20°C and outdoor temperature        | Tj                                   |
| Tj=-7℃<br>Ti=-2°0                             | Pdh - kW                           | Tj=-7℃                                          | COPd                                 |
| 1 J=2 C                                       | Pan - KW                           | 1j=2 C                                          |                                      |
| Ti=12°C                                       | Pdh - kW                           | Ti=12°C                                         |                                      |
| Ti=bivalent temperature                       | Pdh - kW                           | Ti=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 / Warner                              | Thiv 2 C                           | heating / Colder                                |                                      |
|                                               |                                    |                                                 |                                      |
| Cycling interval capacity                     |                                    | Cycling interval efficiency                     |                                      |
| for cooling                                   | Pcycc - kW                         | for cooling                                     | EERcyc                               |
| for heating                                   | Pcych - kW                         | for heating                                     | COPcyc                               |
| Degradation as officient                      |                                    | Degradation coefficient                         |                                      |
| cooling                                       | Cdc 0.25 -                         | heating                                         | Cdh 0.25 -                           |
|                                               |                                    |                                                 |                                      |
| Electric power input in power modes other the | an 'active mode'                   | Annual electricity consumption                  |                                      |
| off mode                                      | Poff 4 W                           | cooling                                         | Qce 129 kWh/a                        |
| standby mode                                  | PSD 4 W                            | neating / Average                               | Qne 934 kWh/a                        |
| crankcase heater mode                         | Pok <b>11</b> W                    | heating / warmer                                | Ohe                                  |
|                                               |                                    | ricating / colder                               |                                      |
| Capacity control(indicate one of three option | s)                                 | Other items                                     |                                      |
|                                               | ,                                  | Sound power level(indoor)                       | Lwa 58 dB(A)                         |
|                                               | r                                  | Sound power level(outdoor)                      | Lwa <b>61</b> dB(A)                  |
| fixed                                         | No                                 | Global warming potential                        | GWP <b>675</b> kgCO <sub>2</sub> eq. |
| staged                                        | No                                 | Rated air flow(indoor)                          | - <b>786</b> m <sup>3</sup> /h       |
| variable                                      | Yes                                | Rated air flow(outdoor)                         | - <b>2160</b> m <sup>3</sup> /h      |
|                                               |                                    |                                                 |                                      |
| Contact details for obtaining Name and        | address of the manufacturer of     | of its authorised representative.               |                                      |
| More mornauon MHIAE SE<br>Herikerbe           | rawed 238. Luna ArenA 1101 C       | M Amsterdam, Netherlands                        |                                      |
|                                               | 5 - <u>5</u> , <u>2</u> , <u>2</u> |                                                 |                                      |
|                                               |                                    |                                                 |                                      |
| ·                                             |                                    |                                                 |                                      |

## Model SRK50ZSX-WT

| Information to identify the model(s) to which | the information relate                | s to:          | If function includes heating: Indicate the heat | ting season    | the          |                       |
|-----------------------------------------------|---------------------------------------|----------------|-------------------------------------------------|----------------|--------------|-----------------------|
| Indoor unit model name                        | SRK50ZSX-WT                           |                | information relates to. Indicated values shou   | Id relate to o | one          |                       |
| Outdoor unit model name                       | SRC50ZSX-W                            |                | neating season at a time. Include at least the  | e neating sea  | ason 'Avera  | ge'.                  |
| 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                 |
|                                               | Pdesignc 5.00                         | k/W/           | Seasonal efficiency and energy efficiency cla   | SEED           | 8 30         | Δ++                   |
| heating / Average                             | Pdesignh 4.50                         | kW             | heating / Average                               | SCOP/A         | 4.70         | A++                   |
| heating / Warmer                              | Pdesignh 6.00                         | kW             | heating / Warmer                                | SCOP/W         | 5.90         | A+++                  |
| heating / Colder                              | Pdesignh -                            | kW             | heating / Colder                                | SCOP/C         | -            | -                     |
|                                               |                                       |                |                                                 |                |              | unit                  |
| Declared capacity at outdoor temperature Te   | designh                               |                | Back up heating capacity at outdoor tempera     | ature Tdesig   | nh           | 1444                  |
| heating / Average (-10 C)                     | Pdn 4.50                              |                | heating / Warmer (2°C)                          | elbu           | 0            |                       |
| heating / Colder (-22°C)                      | Pdh -                                 | - kW           | heating / Colder (-22°C)                        | elbu           | -            | kW                    |
|                                               |                                       |                |                                                 | 0.00           |              |                       |
| Declared capacity for cooling, at indoor tem  | perature 27(19)°C and                 | I              | Declared energy efficiency ratio, at indoor te  | mperature 2    | 27(19)°C and | 1                     |
| outdoor temperature Tj                        |                                       |                | outdoor temperature Tj                          |                |              |                       |
| Tj=35℃                                        | Pdc 5.00                              | kW             | Tj=35°C                                         | EERd           | 4.10         | -                     |
| Ij=30℃<br>Ti=05°0                             | Pdc 3.70                              | KVV            | Tj=30℃                                          | EERd           | 5.90         | -                     |
| Tj=25 C                                       | Pdc 2.40                              | KVV<br>KVV     | TJ=25 C                                         | EERO           | 9.90         | -                     |
| 1]=20 C                                       | Fuc 1.30                              | K V V          | 1j-20 C                                         | LLINU          | 10.20        | -                     |
| Declared capacity for heating / Average sea   | son, at indoor                        |                | Declared coefficient of performance / Average   | ge season, a   | at indoor    |                       |
| temperature 20°C and outdoor temperature      | Тј                                    | _              | temperature 20°C and outdoor temperature        | Tj             |              |                       |
| Tj=-7°C                                       | Pdh 3.98                              | kW             | Tj=-7°C                                         | COPd           | 3.30         | -                     |
| Tj=2℃                                         | Pdh 2.42                              | kW             | Tj=2℃                                           | COPd           | 4.64         | -                     |
| 1j=7°C                                        | Pdn 1.56                              | KVV            | IJ=7°C                                          | COPd           | 5.64         | -                     |
| Tj=12 C<br>Ti=biyalent temperature            | Pun 1.06<br>Pdb 4.50                  | KVV<br>KVV     | Ti=hivalent temperature                         | COPd           | 2.64         | _                     |
| Ti=operating limit                            | Pdh 4.50                              | kW             | Ti=operating limit                              | COPd           | 2.64         | _                     |
| ·) ·p··································       |                                       | 1              |                                                 |                |              |                       |
| Declared capacity for heating / Warmer sea    | son, at indoor                        |                | Declared coefficient of performance / Warme     | er season, a   | t indoor     |                       |
| temperature 20°C and outdoor temperature      | Tj                                    | <b></b>        | temperature 20°C and outdoor temperature        | Tj             |              |                       |
| lj=2°C<br>T≔7°O                               | Pdh 6.00                              | KVV            | IJ=2°C                                          | COPd           | 3.01         | -                     |
| Ti=12°C                                       | Pdn 3.90                              | KVV<br>KVV     | IJ=7°C                                          | COPd           | 5.35         | -                     |
| Ti=hivalent temperature                       | Pdh 6.00                              | kW             | Ti=hivalent temperature                         | COPd           | 3.01         | _                     |
| Ti=operating limit                            | Pdh 6.00                              | kW             | Ti=operating limit                              | COPd           | 3.01         | _                     |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,       |                                       |                |                                                 |                |              |                       |
| Declared capacity for heating / Colder sease  | on, at indoor                         |                | Declared coefficient of performance / Colder    | season, at     | indoor       |                       |
| temperature 20°C and outdoor temperature      | Tj                                    | <b></b>        | temperature 20°C and outdoor temperature        | Tj<br>OOD I    |              | n                     |
| Tj=-/ <sup>-</sup> C                          | Pan -                                 | KVV            | 1j=-7°C                                         | COPd           | -            | -                     |
| Tj=2 C                                        | Pdh -                                 | k/W            | Ti=7°C                                          | COPd           |              | _                     |
| Ti=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℃                                       | Pdh -                                 | kW             | Tj=-15℃                                         | COPd           | -            | -                     |
|                                               |                                       |                |                                                 |                |              |                       |
| Bivalent temperature                          | Thiy -10                              | <b>_</b> °C    | Operating limit temperature                     | Tol            | -10          | °C                    |
| heating / Warmer                              | Thiv -10                              |                | heating / Warmer                                | Tol            | -10          | °C                    |
| heating / Colder                              | Tbiv -                                | -<br>v         | heating / Colder                                | Tol            |              | °C                    |
|                                               | • • • • • • • • • • • • • • • • • • • |                |                                                 |                | •            |                       |
| Cycling interval capacity                     | _                                     |                | Cycling interval efficiency                     |                |              |                       |
| for cooling                                   | Pcycc -                               | kW             | for cooling                                     | EERcyc         |              | -                     |
| tor neating                                   | Pcycn -                               | KVV            | for neating                                     | COPcyc         | -            | -                     |
| Degradation coefficient                       |                                       |                | Degradation coefficient                         |                |              |                       |
| cooling                                       | Cdc 0.25                              | <b>-</b>       | heating                                         | Cdh            | 0.25         | _                     |
|                                               |                                       |                |                                                 |                |              |                       |
| Electric power input in power modes other th  | nan 'active mode'                     | <u> </u>       | Annual electricity consumption                  |                |              |                       |
| OTT MODE                                      | Pott 4                                | W              | cooling                                         | Qce<br>Obc     | 211          | kWh/a                 |
| stanuby mode                                  | FSD 4                                 | W              | heating / Average                               | Ohe            | 1341         | kWh/a                 |
| crankcase heater mode                         | Pck 0                                 | Ŵ              | heating / colder                                | Qhe            |              | kWh/a                 |
|                                               |                                       | 1              |                                                 |                |              |                       |
| Capacity control(indicate one of three option | is)                                   |                | Other items                                     |                |              |                       |
|                                               |                                       |                | Sound power level(indoor)                       | Lwa            | 59           | dB(A)                 |
|                                               |                                       |                | Sound power level(outdoor)                      | Lwa            | 63           | dB(A)                 |
| fixed                                         | No                                    |                | Global warming potential                        | GWP            | 675          | kgCO <sub>2</sub> eq. |
| staged                                        | No                                    |                | Rated air flow(indoor)                          | -              | 858          | m³/h                  |
| variable                                      | Yes                                   |                | Rated air flow(outdoor)                         | -              | 2340         | m³/h                  |
|                                               |                                       | fa - 1         |                                                 |                |              |                       |
| more information                              | a address of the manu<br>FRVICES B V  | nacturer or of | its authorised representative.                  |                |              |                       |
| Herikerbe                                     | rgweg 238, Luna Arei                  | nA, 1101 CM /  | Amsterdam, Netherlands                          |                |              |                       |
|                                               |                                       |                |                                                 |                |              |                       |
|                                               |                                       |                |                                                 |                |              |                       |
|                                               |                                       |                | -                                               |                |              |                       |

## Model SRK50ZSX-WT

| Information to identify the model(s) to which | the information re | lates to:                             | If function includes heating: Indicate the heat | ting season    | the          |                       |
|-----------------------------------------------|--------------------|---------------------------------------|-------------------------------------------------|----------------|--------------|-----------------------|
| Indoor unit model name                        | SRK50ZSX-WT        |                                       | information relates to. Indicated values shou   | ld relate to o | one          |                       |
| Outdoor unit model name                       | SRC50ZSX-W1        |                                       | heating season at a time. Include at least the  | neating sea    | ason 'Averaç | ge'.                  |
| Function(indicate if present)                 |                    |                                       | Average(mandatory)                              | Yes            |              |                       |
| cooling                                       | Yes                |                                       | Warmer(if designated)                           | Yes            |              |                       |
| heating                                       | Yes                |                                       | Colder(if designated)                           | No             |              |                       |
|                                               |                    |                                       |                                                 |                |              |                       |
| Item                                          | symbol value       | e unit                                | Item                                            | symbol         | value        | class                 |
|                                               | Pdesigne 5         | 00 kW                                 | Seasonal efficiency and energy efficiency cla   | JSS<br>SEER    | 8 30         | Δ++                   |
| heating / Average                             | Pdesignb 4.        | 50 kW                                 | heating / Average                               | SCOP/A         | 4.70         | A++                   |
| heating / Warmer                              | Pdesignh 6.        | 00 kW                                 | heating / Warmer                                | SCOP/W         | 5.90         | A+++                  |
| heating / Colder                              | Pdesignh           | - kW                                  | heating / Colder                                | SCOP/C         | -            | -                     |
|                                               |                    |                                       |                                                 |                |              | unit                  |
| Declared capacity at outdoor temperature Te   | designh            | <b>FO</b> 1/30/                       | Back up heating capacity at outdoor tempera     | ture Tdesigi   | nh           | L\\\                  |
| heating / Average (-10 C)                     | Puli 4.            |                                       | heating / Average (-10 C)                       | elbu           | 0            |                       |
| heating / Colder (-22°C)                      | Pdh 0.             | - kW                                  | heating / Colder (-22°C)                        | elbu           | -            | kW                    |
|                                               | . an               |                                       | 100011g/ 001001 (22 0)                          | 0.04           | 1            |                       |
| Declared capacity for cooling, at indoor tem  | perature 27(19)°C  | and                                   | Declared energy efficiency ratio, at indoor te  | mperature 2    | ?(19)°C and  |                       |
| outdoor temperature Tj                        |                    |                                       | outdoor temperature Tj                          |                |              |                       |
| Tj=35℃                                        | Pdc 5.             | 00 kW                                 | Tj=35℃                                          | EERd           | 4.10         | -                     |
| Ij=30℃<br>Ti=05°0                             | Pdc 3.             | 70 kW                                 | Ij=30℃<br>Ti=05°o                               | EERd           | 5.90         | -                     |
| Tj=25 C                                       | Pac Z.             | 40 KVV                                | Tj=25 C<br>Ti=20℃                               | EERO           | 9.90         | -                     |
| 1]=20 C                                       | Fuc I.             | <b>30</b> KW                          | 1j=20 C                                         | LLINU          | 10.20        | -                     |
| Declared capacity for heating / Average sea   | son, at indoor     |                                       | Declared coefficient of performance / Average   | je season, a   | at indoor    |                       |
| temperature 20°C and outdoor temperature      | Tj                 |                                       | temperature 20°C and outdoor temperature        | rj             |              |                       |
| Tj=-7°C                                       | Pdh 3.             | 98 kW                                 | Tj=-7℃                                          | COPd           | 3.30         | -                     |
| Tj=2℃                                         | Pdh 2.             | 42 kW                                 | Tj=2℃                                           | COPd           | 4.64         | -                     |
| 1j=7°C                                        | Pan 1.             | 56 KVV                                | IJ=7°C                                          | COPd           | 5.64         | -                     |
| Tj=12 C<br>Ti=bivalent temperature            | Puli 1.<br>Pdh 4   | 50 kW                                 | Ti=hivalent temperature                         | COPd           | 2.64         | -                     |
| Ti=operating limit                            | Pdh 4.             | 50 kW                                 | Ti=operating limit                              | COPd           | 2.64         | _                     |
| ·) ·p··································       |                    |                                       | -) -p                                           |                |              |                       |
| Declared capacity for heating / Warmer sea    | son, at indoor     |                                       | Declared coefficient of performance / Warme     | er season, a   | t indoor     |                       |
| temperature 20°C and outdoor temperature      | Tj                 |                                       | temperature 20°C and outdoor temperature 1      | ij             |              |                       |
| lj=2°C<br>T≔7°O                               | Pdh 6.             | 00 kW                                 | Ij=2℃<br>T≔=7°0                                 | COPd           | 3.01         | -                     |
| Ti=12°C                                       | Pan 3.             | 90 KVV                                | IJ=7°C                                          | COPd           | 5.35         | -                     |
| Ti=hivalent temperature                       | Pdh 6              | 00 kW                                 | Tj=12 C                                         | COPd           | 3.01         | _                     |
| Ti=operating limit                            | Pdh 6.             | 00 kW                                 | Ti=operating limit                              | COPd           | 3.01         | _                     |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,       |                    |                                       |                                                 |                |              |                       |
| Declared capacity for heating / Colder sease  | on, at indoor      |                                       | Declared coefficient of performance / Colder    | season, at i   | indoor       |                       |
| temperature 20°C and outdoor temperature      | Tj                 |                                       | temperature 20°C and outdoor temperature        | ij<br>oon i    |              |                       |
| Tj=-/ <sup>-</sup> C                          | Pan                | - KVV                                 | IJ=-/~C                                         | COPd           | -            | -                     |
| Tj=2 C                                        | Pdh                | - KW                                  | Tj=2 ℃<br>Ti=7°C                                | COPd           | -            | -                     |
| Ti=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℃                                       | Pdh                | - kW                                  | Tj=-15℃                                         | COPd           | -            | -                     |
|                                               |                    |                                       |                                                 |                |              |                       |
| Bivalent temperature                          | Thiv               |                                       | Operating limit temperature                     | Tol            | -10          | °C                    |
| heating / Warmer                              | Thiv -             | 2 °C                                  | heating / Warmer                                | Tol            | -10          | °C                    |
| heating / Colder                              | Tbiv               | - °c                                  | heating / Colder                                | Tol            |              | °C                    |
|                                               |                    |                                       |                                                 |                | · · ·        |                       |
| Cycling interval capacity                     |                    |                                       | Cycling interval efficiency                     |                |              |                       |
| for cooling                                   | Pcycc              | - kW                                  | for cooling                                     | EERcyc         | -            | -                     |
| tor neating                                   | PCyCn              | - кW                                  | ror neating                                     | COPcyc         | -            | -                     |
| Degradation coefficient                       |                    | ]                                     | Degradation coefficient                         |                |              |                       |
| cooling                                       | Cdc 0.             | 25 -                                  | heating                                         | Cdh            | 0.25         | -                     |
|                                               | ľ                  |                                       |                                                 |                |              |                       |
| Electric power input in power modes other the | an 'active mode'   |                                       | Annual electricity consumption                  |                |              |                       |
| OTT MODE                                      | Pott 4             | 4 VV                                  | cooling                                         | Qce            | 211          | kWh/a                 |
| thermostat-off mode                           | Pto 4              | • • • • • • • • • • • • • • • • • • • | heating / Warmer                                | Ohe            | 1425         | kWh/a                 |
| crankcase heater mode                         | Pck (              | 0 W                                   | heating / colder                                | Qhe            | -            | kWh/a                 |
|                                               |                    |                                       | · · · · · · · · · · · · · · · · · · ·           |                |              | -                     |
| Capacity control(indicate one of three option | s)                 |                                       | Other items                                     |                |              |                       |
|                                               |                    |                                       | Sound power level(indoor)                       | Lwa            | 59           | dB(A)                 |
|                                               |                    |                                       | Sound power level(outdoor)                      | Lwa            | 63           | dB(A)                 |
| fixed                                         | No                 |                                       | Global warming potential                        | GWP            | 675          | kgCO <sub>2</sub> eq. |
| staged                                        | No                 |                                       | Rated air flow(indoor)                          | -              | 858          | m³/h                  |
| variable                                      | Yes                |                                       | Rated air flow(outdoor)                         | -              | 2340         | m³/h                  |
|                                               | laddaaa (1)        |                                       |                                                 |                |              |                       |
| more information                              | address of the m   | anutacturer or of i                   | is authorised representative.                   |                |              |                       |
| Herikerbe                                     | rgweg 238, Luna /  | ArenA, 1101 CM A                      | msterdam, Netherlands                           |                |              |                       |
|                                               |                    | -                                     | -                                               |                |              |                       |
|                                               |                    |                                       |                                                 |                |              |                       |
|                                               |                    |                                       | г                                               |                |              |                       |

## Model SRK50ZSX-WT

| Information to identify the model(s) to which | the information r | elates to:                            | If function includes heating: Indicate the heat | ting season    | the          |                       |
|-----------------------------------------------|-------------------|---------------------------------------|-------------------------------------------------|----------------|--------------|-----------------------|
| Indoor unit model name                        | SRK50ZSX-W        | T                                     | information relates to. Indicated values shou   | ld relate to o | ne           |                       |
| Outdoor unit model name                       | SRC50ZSX-W        | 2                                     | heating season at a time. Include at least the  | neating sea    | ason 'Averag | je'.                  |
| Function(indicate if present)                 |                   |                                       | Average(mandatory)                              | Yes            |              |                       |
| cooling                                       | Yes               |                                       | Warmer(if designated)                           | Yes            |              |                       |
| heating                                       | Yes               |                                       | Colder(if designated)                           | No             |              |                       |
|                                               |                   |                                       |                                                 |                |              |                       |
| Item                                          | symbol valu       | ue unit                               | Item                                            | symbol         | value        | class                 |
|                                               | Pdesigne          | 5.00 k/W                              | Seasonal efficiency and energy efficiency cla   | JSS<br>SEER    | 8 30         | Δ++                   |
| heating / Average                             | Pdesignb 4        | 4.50 kW                               | heating / Average                               | SCOP/A         | 4.70         | A++                   |
| heating / Warmer                              | Pdesignh (        | 6.00 kW                               | heating / Warmer                                | SCOP/W         | 5.90         | A+++                  |
| heating / Colder                              | Pdesignh          | - kW                                  | heating / Colder                                | SCOP/C         | -            | -                     |
|                                               |                   |                                       |                                                 |                |              | unit                  |
| Declared capacity at outdoor temperature Te   | designh           | 4.50                                  | Back up heating capacity at outdoor tempera     | ture Tdesigi   | nh           |                       |
| heating / Average (-10 C)                     | Pun 4             | 4.50 KVV                              | heating / Average (-10 C)                       | elbu           | 0            |                       |
| heating / Colder (-22°C)                      | Pdh               | - kW                                  | heating / Colder (-22°C)                        | elbu           | -            | kW                    |
|                                               | . dii             |                                       | 100011g/ 001001 ( 22 0)                         | 0.04           |              |                       |
| Declared capacity for cooling, at indoor tem  | perature 27(19)°  | C and                                 | Declared energy efficiency ratio, at indoor te  | mperature 2    | 7(19)°C and  |                       |
| outdoor temperature Tj                        |                   |                                       | outdoor temperature Tj                          |                |              |                       |
| Tj=35℃                                        | Pdc !             | 5.00 kW                               | Tj=35℃                                          | EERd           | 4.10         | -                     |
| lj=30℃<br>Ti=05°o                             | Pdc :             | 3.70 kW                               | Ij=30℃<br>Ti=05°o                               | EERd           | 5.90         | -                     |
| Tj=25 C                                       | Pac 2             | 2.40 KVV                              | I]=25 C<br>Ti=20℃                               | EERO           | 9.90         | -                     |
| 1]=20 C                                       | Fuc               | 1.50 KW                               | 1j=20 C                                         | LLINU          | 10.20        | -                     |
| Declared capacity for heating / Average sea   | son, at indoor    |                                       | Declared coefficient of performance / Average   | je season, a   | t indoor     |                       |
| temperature 20°C and outdoor temperature      | Тј                |                                       | temperature 20°C and outdoor temperature        | rj             |              |                       |
| Tj=-7°C                                       | Pdh :             | 3.98 kW                               | Tj=-7℃                                          | COPd           | 3.30         | -                     |
| Tj=2℃                                         | Pdh 2             | 2.42 kW                               | Tj=2℃                                           | COPd           | 4.64         | -                     |
| 1j=7°C                                        | Pan 7             | 1.56 KVV                              | IJ=7°C                                          | COPd           | 5.64         | -                     |
| Tj=12 C<br>Ti=biyalent temperature            | Pun Pun           | 1.06 KVV                              | Ti=hivalent temperature                         | COPd           | 2.64         | -                     |
| Ti=operating limit                            | Pdh 4             | 4.50 kW                               | Ti=operating limit                              | COPd           | 2.64         | -                     |
| ·) ·p··································       |                   |                                       | -) -p                                           |                |              |                       |
| Declared capacity for heating / Warmer sea    | son, at indoor    |                                       | Declared coefficient of performance / Warme     | er season, a   | t indoor     |                       |
| temperature 20°C and outdoor temperature      | Tj                |                                       | temperature 20°C and outdoor temperature 1      | ij             |              |                       |
| lj=2°C<br>T≔7°O                               | Pdh (             | 6.00 kW                               | Ij=2℃<br>T≔=7°0                                 | COPd           | 3.01         | -                     |
| Ti=12°C                                       | Pan :             | 3.90 KVV                              | IJ=7°C                                          | COPd           | 5.35         | -                     |
| Ti=hivalent temperature                       | Pdh (             | 6.00 kW                               | Tj=12 C                                         | COPd           | 3.01         | -                     |
| Ti=operating limit                            | Pdh (             | 6.00 kW                               | Ti=operating limit                              | COPd           | 3.01         | -                     |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,       |                   |                                       |                                                 |                |              |                       |
| Declared capacity for heating / Colder sease  | on, at indoor     |                                       | Declared coefficient of performance / Colder    | season, at i   | indoor       |                       |
| temperature 20°C and outdoor temperature      | тј                |                                       | temperature 20°C and outdoor temperature        | ij<br>OOD I    |              |                       |
| Tj=-/ <sup>-</sup> C                          | Pan<br>Dah        | - KVV                                 | IJ=-/~C                                         | COPd           | -            | -                     |
| Tj=2 C                                        | Pdh               | - kW                                  | Tj=2 ℃<br>Ti=7°C                                | COPd           | -            | -                     |
| Ti=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℃                                       | Pdh               | - kW                                  | Tj=-15℃                                         | COPd           | -            | -                     |
|                                               |                   |                                       |                                                 |                |              |                       |
| Bivalent temperature                          | Thiv              | - <b>10</b> °C                        | Operating limit temperature                     | Tol            | -10          | °C                    |
| heating / Warmer                              | Thiv              | 2 0                                   | heating / Warmer                                | Tol            | -10          | °C                    |
| heating / Colder                              | Tbiv              | - °c                                  | heating / Colder                                | Tol            |              | °C                    |
|                                               |                   |                                       |                                                 |                | · · · · · ·  |                       |
| Cycling interval capacity                     |                   |                                       | Cycling interval efficiency                     |                |              |                       |
| for cooling                                   | Pcycc             | - kW                                  | for cooling                                     | EERcyc         | -            | -                     |
| tor neating                                   | Pcych             | - KVV                                 | ror neating                                     | COPcyc         | -            | -                     |
| Degradation coefficient                       |                   | ]                                     | Degradation coefficient                         |                |              |                       |
| cooling                                       | Cdc               | 0.25 -                                | heating                                         | Cdh            | 0.25         | -                     |
|                                               |                   | · · · · · · · · · · · · · · · · · · · |                                                 |                |              |                       |
| Electric power input in power modes other th  | an 'active mode'  |                                       | Annual electricity consumption                  |                |              |                       |
| OTT MODE                                      | Pott              | 4 W                                   | cooling                                         | Qce            | 211          | kWh/a                 |
| thermostat-off mode                           | Pto               | - VV<br>12 W                          | heating / Warmer                                | Ohe            | 141          | kWh/a                 |
| crankcase heater mode                         | Pck               | 0 W                                   | heating / colder                                | Qhe            | -            | kWh/a                 |
|                                               | I                 | I                                     | · · · · · · · · · · · · · · · · · · ·           |                | ·            | -                     |
| Capacity control(indicate one of three option | s)                |                                       | Other items                                     |                |              |                       |
|                                               |                   |                                       | Sound power level(indoor)                       | Lwa            | 59           | dB(A)                 |
|                                               |                   |                                       | Sound power level(outdoor)                      | Lwa            | 63           | dB(A)                 |
| fixed                                         | No                |                                       | Global warming potential                        | GWP            | 675          | kgCO <sub>2</sub> eq. |
| staged                                        | No                |                                       | Rated air flow(indoor)                          | -              | 858          | m³/h                  |
| variable                                      | Yes               |                                       | Rated air flow(outdoor)                         | -              | 2340         | m³/h                  |
|                                               | 1 - dda           |                                       |                                                 |                |              |                       |
| more information                              | address of the I  | manufacturer or of i                  | is autorised representative.                    |                |              |                       |
| Herikerbe                                     | rgweg 238, Luna   | ArenA, 1101 CM A                      | msterdam, Netherlands                           |                |              |                       |
|                                               |                   | -                                     | -                                               |                |              |                       |
|                                               |                   |                                       |                                                 |                |              |                       |
|                                               |                   |                                       | -                                               |                |              |                       |

## Model SRK60ZSX-WT

| Information to identify the model(s) to which | the information relates to:              |              | If function includes heating: Indicate the heat | ting season    | the          |                       |
|-----------------------------------------------|------------------------------------------|--------------|-------------------------------------------------|----------------|--------------|-----------------------|
| Indoor unit model name                        | SRK60ZSX-WT                              |              | information relates to. Indicated values shou   | Id relate to c | one          |                       |
| Outdoor unit model name                       | SRC60ZSX-W                               |              | heating season at a time. Include at least the  | e neating sea  | ason 'Averag | e'.                   |
| Function(indicate if present)                 |                                          |              | Average(mandatory)                              | Yes            |              |                       |
| cooling                                       | Yes                                      |              | Warmer(if designated)                           | Yes            |              |                       |
| heating                                       | Yes                                      |              | Colder(if designated)                           | No             |              |                       |
|                                               |                                          |              |                                                 |                |              |                       |
| Item                                          | symbol value un                          | nit          | Item                                            | symbol         | value        | class                 |
|                                               | Pdesignc 610 kV                          | N            | Seasonal efficiency and energy efficiency cla   | 3SS<br>SEER    | 7 80         | Δ++                   |
| heating / Average                             | Pdesigne 5.20 kV                         | Ň            | heating / Average                               | SCOP/A         | 4.70         | A++                   |
| heating / Warmer                              | Pdesignh 6.80 kV                         | Ň            | heating / Warmer                                | SCOP/W         | 5.80         | A+++                  |
| heating / Colder                              | Pdesignh - kV                            | N            | heating / Colder                                | SCOP/C         | -            | -                     |
|                                               |                                          |              |                                                 |                |              | unit                  |
| Declared capacity at outdoor temperature To   | designh                                  |              | Back up heating capacity at outdoor tempera     | ature Tdesig   | nh           |                       |
| heating / Average (-10 C)                     | Pdn 5.20 KV                              |              | heating / Average (-10 C)                       | elbu           | 0            | KVV                   |
| heating / Colder (-22°C)                      | Pdh - kV                                 | Ň            | heating / Colder (-22°C)                        | elbu           | -            | kW                    |
|                                               |                                          |              | 100011g/ 001001 (22 0)                          | 0.00           | I I.         |                       |
| Declared capacity for cooling, at indoor temp | perature 27(19)°C and                    |              | Declared energy efficiency ratio, at indoor te  | mperature 2    | 27(19)°C and |                       |
| outdoor temperature Tj                        |                                          |              | outdoor temperature Tj                          |                |              |                       |
| Tj=35℃                                        | Pdc 6.10 kV                              | N            | Tj=35℃                                          | EERd           | 3.60         |                       |
| lj=30℃<br>Ti=05°o                             | Pdc 4.50 kV                              | N N          | Ij=30℃<br>Ti=05°o                               | EERd           | 5.40         |                       |
| Tj=25 C                                       | Pdc 2.90 KV                              | N N          | Tj=25 C<br>Ti=20℃                               | EERO           | 9.00         |                       |
| 1j=20 C                                       | Fuc 1.00 KV                              | v            | 1j=20 C                                         | LLINU          | 10.40        |                       |
| Declared capacity for heating / Average sea   | son, at indoor                           |              | Declared coefficient of performance / Average   | je season, a   | at indoor    |                       |
| temperature 20°C and outdoor temperature      | Tj                                       |              | temperature 20°C and outdoor temperature        | rj .           |              |                       |
| Tj=-7°C                                       | Pdh 4.70 kV                              | N            | Tj=-7℃                                          | COPd           | 3.10         |                       |
| Tj=2°C                                        | Pdh 2.80 kV                              | N            | Tj=2°C                                          | COPd           | 4.65         |                       |
| 1j=7°C                                        | Pdn 1.80 KV                              | N N          | IJ=7°C                                          | COPd           | 5.86         | -                     |
| Tj=12 C<br>Ti=biyalent temperature            | Pan 1.10 KV<br>Pdb 5.20 kV               | N N          | Tj=12 C<br>Ti=biyalent temperature              | COPd           | 2.45         |                       |
| Ti=operating limit                            | Pdh 5.20 kV                              | Ň            | Ti=operating limit                              | COPd           | 2.45         |                       |
|                                               |                                          |              |                                                 | 00.0           |              |                       |
| Declared capacity for heating / Warmer seas   | son, at indoor                           |              | Declared coefficient of performance / Warme     | er season, a   | t indoor     |                       |
| temperature 20°C and outdoor temperature      | Tj                                       |              | temperature 20°C and outdoor temperature 1      | ſj             |              |                       |
| Tj=2℃                                         | Pdh 6.80 kV                              | N            | Tj=2°C                                          | COPd           | 2.70         |                       |
| Tj=7°C                                        | Pdn 4.37 KV                              | N N          | IJ=7°C                                          | COPd           | 5.16         | -                     |
| Tj=12 C                                       | Pdh 6.80 kV                              | Ň            | Ti=bivalent temperature                         | COPd           | 2 70         |                       |
| Ti=operating limit                            | Pdh 6.80 kV                              | Ň            | Ti=operating limit                              | COPd           | 2.70         |                       |
| , , , , , , , , , , , , , , , , , , ,         |                                          |              | 3 4 4 4 3                                       |                |              |                       |
| Declared capacity for heating / Colder seaso  | on, at indoor                            |              | Declared coefficient of performance / Colder    | season, at i   | indoor       |                       |
| temperature 20°C and outdoor temperature      | Tj                                       |              | temperature 20°C and outdoor temperature        | ſj             |              |                       |
| I j=-7°C                                      | Pdh - kV                                 | N N          | IJ=-7℃<br>Ti=2°0                                | COPd           |              |                       |
| Tj=2 C                                        | Puli - KV                                | V<br>N       | TJ=2 C                                          | COPd           |              |                       |
| Ti=12°C                                       | Pdh - kV                                 | Ň            | Ti=12°C                                         | COPd           |              |                       |
| Tj=bivalent temperature                       | Pdh - kV                                 | v            | Tj=bivalent temperature                         | COPd           |              |                       |
| Tj=operating limit                            | Pdh - kV                                 | v            | Tj=operating limit                              | COPd           |              |                       |
| Tj=-15°C                                      | Pdh - kV                                 | V            | Tj=-15°C                                        | COPd           | -            |                       |
|                                               |                                          |              | <b>•</b> • • • •                                |                |              |                       |
| Bivalent temperature                          |                                          |              | Operating limit temperature                     | Tol            | _10          | °C                    |
| heating / Average                             | Thiv -10 C                               |              | heating / Warmer                                | Tol            | -10          | 2                     |
| heating / Colder                              | Tbiv 2 C                                 |              | heating / Colder                                | Tol            |              | °C<br>S               |
|                                               |                                          |              | · · · · · · · · · · · · · · · · · · ·           |                | · · · · · ·  |                       |
| Cycling interval capacity                     |                                          |              | Cycling interval efficiency                     |                |              |                       |
| for cooling                                   | Pcycc - kV                               | V            | for cooling                                     | EERcyc         | <u>⊢ -</u>   |                       |
| tor neating                                   | Pcych - kV                               | v            | ror neating                                     | COPcyc         | <b>-</b>     |                       |
| Degradation coefficient                       |                                          | 1            | Degradation coefficient                         |                |              |                       |
| cooling                                       | Cdc 0.25 -                               |              | heating                                         | Cdh            | 0.25         |                       |
|                                               |                                          |              |                                                 |                |              |                       |
| Electric power input in power modes other the | nan 'active mode'                        |              | Annual electricity consumption                  |                |              |                       |
| ott mode                                      | Poff 4 W                                 |              | cooling                                         | Qce            | 274          | kWh/a                 |
| standby mode                                  | Pto 40                                   |              | heating / Average                               | Qne            | 1551         | kwn/a                 |
| crankcase beater mode                         | Pck 0 W                                  |              | heating / warner                                | Ohe            | 1043         | kWh/a                 |
|                                               |                                          |              | ficturing / colder                              | QIIC           | 1 1          | (WIII) a              |
| Capacity control(indicate one of three option | s)                                       |              | Other items                                     |                |              |                       |
|                                               |                                          |              | Sound power level(indoor)                       | Lwa            | 62           | dB(A)                 |
|                                               |                                          |              | Sound power level(outdoor)                      | Lwa            | 65           | dB(A)                 |
| fixed                                         | No                                       |              | Global warming potential                        | GWP            | 675          | kgCO <sub>2</sub> eq. |
| staged                                        | No                                       |              | Rated air flow(indoor)                          | -              | 978          | m³/h                  |
| variable                                      | Yes                                      |              | Rated air flow(outdoor)                         | -              | 2490         | m³/h                  |
|                                               |                                          |              |                                                 |                |              |                       |
| Contact details for obtaining Name and        | address of the manufactu                 | irer or of i | ts authorised representative.                   |                |              |                       |
| Herikerbe                                     | raweg 238. Luna ArenA 1                  | 101 CM A     | msterdam. Netherlands                           |                |              |                       |
|                                               | 5 - <u>5</u> 5, <u>c</u> ana / 1000/1, 1 | 2. SM/       |                                                 |                |              |                       |
|                                               |                                          |              |                                                 |                |              |                       |
|                                               |                                          |              | -                                               |                |              |                       |

## Model SRK60ZSX-WT

| Information to identify the model(s) to which | the information              | relates to:          | If function includes heating: Indicate the heat | ing season t    | he                            |
|-----------------------------------------------|------------------------------|----------------------|-------------------------------------------------|-----------------|-------------------------------|
| Indoor unit model name                        | SRK60ZSX-W                   | /T                   | information relates to. Indicated values shou   | id relate to or | ne                            |
| Outdoor unit model name                       | SRC60ZSX-W                   | /1                   | heating season at a time. Include at least the  | neating sea     | son 'Average'.                |
| Function(indicate if present)                 |                              |                      | Average(mandatory)                              | Yes             |                               |
| cooling                                       | Yes                          |                      | Warmer(if designated)                           | Yes             |                               |
| heating                                       | Yes                          |                      | Colder(if designated)                           | No              |                               |
|                                               |                              |                      |                                                 |                 |                               |
| Item                                          | symbol va                    | lue unit             | Item                                            | symbol          | value class                   |
|                                               | Pdesigne                     | 6 10 kW              | Seasonal emiciency and energy emiciency cla     |                 | 7 80 A++                      |
| heating / Average                             | Pdesignb                     | 5.20 kW              | heating / Average                               | SCOP/A          | 4.70 A++                      |
| heating / Warmer                              | Pdesignh                     | 6.80 kW              | heating / Warmer                                | SCOP/W          | 5.80 A+++                     |
| heating / Colder                              | Pdesignh                     | - kW                 | heating / Colder                                | SCOP/C          |                               |
|                                               |                              |                      |                                                 |                 | unit                          |
| Declared capacity at outdoor temperature Te   | designh                      | E 20 1/10/           | Back up heating capacity at outdoor tempera     | iture Tdesign   | h                             |
| heating / Average (-10 C)                     | Pan                          | 5.20 KVV             | heating / Average (-10 C)                       | elbu            | 0 KVV                         |
| heating / Colder (-22°C)                      | Pdh                          | - kW                 | heating / Colder (-22°C)                        | elbu            | - kW                          |
|                                               | . dii                        |                      | 110dang/ 00ld01 (22 0)                          | 0.04            |                               |
| Declared capacity for cooling, at indoor tem  | perature 27(19) <sup>o</sup> | °C and               | Declared energy efficiency ratio, at indoor te  | mperature 27    | 7(19)°C and                   |
| outdoor temperature Tj                        |                              |                      | outdoor temperature Tj                          |                 |                               |
| Tj=35℃                                        | Pdc                          | 6.10 kW              | Tj=35℃                                          | EERd            | 3.60 -                        |
| Ij=30℃<br>Ti=05°0                             | Pdc                          | 4.50 kW              | Ij=30℃<br>Ti=o5°o                               | EERd            | 5.40 -                        |
| Tj=25 C                                       | Pac                          | 2.90 KW              | TJ=25 C<br>Ti=20℃                               | EERO            | 9.00 -                        |
| 1]=20 C                                       | Fuc                          | 1.00                 | 1j=20 C                                         | LLINU           | 10.40                         |
| Declared capacity for heating / Average sea   | son, at indoor               |                      | Declared coefficient of performance / Average   | je season, at   | t indoor                      |
| temperature 20°C and outdoor temperature      | Tj                           |                      | temperature 20°C and outdoor temperature        | ſj              | <b>_</b>                      |
| Tj=-7°C                                       | Pdh                          | 4.70 kW              | Tj=-7℃                                          | COPd            | 3.10 -                        |
| Tj=2℃                                         | Pdh                          | 2.80 kW              | Tj=2℃<br>Ti=7°0                                 | COPd            | 4.65 -                        |
| 1j=7°C                                        | Pan                          | 1.80 KVV             | Tj=7°C                                          | COPd            | 5.86 -                        |
| Tj=12 C<br>Ti=biyalent temperature            | Puli<br>Pdh                  | 1.10 KW              | Ti=hivalent temperature                         | COPd            | 2.45                          |
| Ti=operating limit                            | Pdh                          | 5.20 kW              | Ti=operating limit                              | COPd            | 2.45                          |
| ·) ·p··································       |                              |                      | () openeurig mini                               |                 |                               |
| Declared capacity for heating / Warmer sea    | son, at indoor               |                      | Declared coefficient of performance / Warme     | er season, at   | indoor                        |
| temperature 20°C and outdoor temperature      | Тј                           |                      | temperature 20°C and outdoor temperature 1      | ſj              |                               |
| lj=2°C<br>T≔7°O                               | Pdh                          | 6.80 kW              | Ij=2℃<br>Ti=7°0                                 | COPd            | 2.70 -                        |
| Ti=12°C                                       | Pan<br>Dah                   | 4.37 KW              | IJ=7°C                                          | COPd            | 5.16 -                        |
| Ti=hivalent temperature                       | Pdh                          | 6.80 kW              | Ti=hivalent temperature                         | COPd            | 2 70 -                        |
| Ti=operating limit                            | Pdh                          | 6.80 kW              | Ti=operating limit                              | COPd            | 2.70 -                        |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,       |                              | I                    |                                                 |                 |                               |
| Declared capacity for heating / Colder sease  | on, at indoor                |                      | Declared coefficient of performance / Colder    | season, at in   | ndoor                         |
| temperature 20°C and outdoor temperature      | <sup>Tj</sup>                |                      | temperature 20°C and outdoor temperature        | ij<br>Dobli I   |                               |
| Tj=-/ <sup>-</sup> C                          | Pan                          | - KVV                | IJ=-7°C<br>Ti=2°C                               | COPd            |                               |
| Tj=2 C                                        | Pdh                          | - KW                 | Tj=2 ℃                                          | COPd            |                               |
| Ti=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℃                                       | Pdh                          | - kW                 | Tj=-15℃                                         | COPd            |                               |
|                                               |                              | 1                    |                                                 |                 |                               |
| Bivalent temperature                          | Thiv                         | - <b>10</b>          | Operating limit temperature                     | Tol             | - <b>10</b> °C                |
| heating / Warmer                              | Thiv                         | 2 0                  | heating / Warmer                                | Tol             | 2 0                           |
| heating / Colder                              | Tbiv                         | - °c                 | heating / Colder                                | Tol             | - °c                          |
|                                               |                              | I                    |                                                 |                 |                               |
| Cycling interval capacity                     |                              |                      | Cycling interval efficiency                     |                 |                               |
| for cooling                                   | Pcycc                        | - kW                 | for cooling                                     | EERcyc          |                               |
| tor neating                                   | Pcych                        | - KW                 | tor neating                                     | COPcyc          | -  -                          |
| Degradation coefficient                       |                              |                      | Degradation coefficient                         |                 |                               |
| cooling                                       | Cdc                          | 0.25 -               | heating                                         | Cdh             | 0.25 -                        |
|                                               |                              |                      |                                                 |                 | •                             |
| Electric power input in power modes other th  | an 'active mode              | e'                   | Annual electricity consumption                  | ~ I             |                               |
| OTT MODE                                      | Pott                         | 4 VV                 | cooling                                         | Qce<br>Obc      | 274 kWh/a                     |
| thermostat-off mode                           | Pto                          | 12 W                 | heating / Warmer                                | Ohe             | 1643 kWh/a                    |
| crankcase heater mode                         | Pck                          | 0 W                  | heating / colder                                | Qhe             | - kWh/a                       |
|                                               | -                            |                      |                                                 |                 |                               |
| Capacity control(indicate one of three option | s)                           |                      | Other items                                     |                 |                               |
|                                               |                              |                      | Sound power level(indoor)                       | Lwa             | 62 dB(A)                      |
|                                               |                              |                      | Sound power level(outdoor)                      | Lwa             | 65 dB(A)                      |
| fixed                                         | No                           |                      | Global warming potential                        | GWP             | 675 kgCO2e0                   |
| staged                                        | No                           |                      | Rated air flow(indoor)                          | -               | 978 m³/h                      |
| variable                                      | Yes                          |                      | Rated air flow(outdoor)                         | -               | <b>2490</b> m <sup>3</sup> /h |
|                                               | Laddara CC                   |                      | the south and an annual of the                  |                 |                               |
| more information                              | address of the               | manuracturer or of i | us authorised representative.                   |                 |                               |
| Herikerbe                                     | rgweg 238, Lun               | a ArenA, 1101 CM A   | Amsterdam, Netherlands                          |                 |                               |
|                                               |                              | -                    |                                                 |                 |                               |
|                                               |                              |                      |                                                 |                 |                               |
|                                               |                              |                      | Г                                               |                 |                               |

# **14. REFERENCE**

# (1) Outline

1-1) R32 as the alternative refrigerant for residential air-conditioners

As for the R410A refrigerant which we have been usually using for air-conditioners, in case of emissions into the atmosphere, we have been adopting the collection of refrigerant etc. in order to restrain the world from global warming.

Based on the 4th basic ecological plan, it is said that the amount of emission of the green house effect gases including the refrigerants which are being used for air-conditioners shall be reduced 80% by 2050, emissions of any kind of freon gases which have especially high global warming coefficient must be reduced much more.

Hence, it is required to converted the freon gases we are using for air-conditioners into the refrigerants which have lower global warming even though they are exhausted into the atmosphere.

On the other hand, the refrigerants for air-conditioners, lower effect of global warming, to secure its performance and high energy efficiency and safety are required, however, the refrigerants which satisfy all of them have not been announced yet.

For this purpose, we have been studying to make use of the refrigerant like R32 which has short life in the atmosphere, even though it has low global warming but low combustibility under the practical use for safety.

In 2004, IEC, international electrical safety for air-conditioners had been corrected, the regulation for safety of air-conditioners which use the combustible refrigerant have been issued, in 2010, the regulation adopting the degree which is considered to be damaged slightly because of difficulty of ignition due to its low combustion speed was issued in ANSI/ASHRAE34 regulations.

R32 has been approved as the refrigerant whose combustion speed degree is lower than 10cm/sec, the standardization for safety use is being proceeded so that R32 can be used more widely.

Although all the air-conditioners which use R32 have been designed with deep consideration in order to guarantee the safety, some cautions which are mandatory to be kept during its installation and services are shown as follows.

## 1-2) Chemical characteristics of R32

(i) Chemical charactaristic

R32 is one of an ingredient which composes R410A, without toxicity, the chemically stable compound which consists of carbon and fluorine.

Life of R32 after diffusing in the atmosphere is very short, approximately 4.9 years, as a result, although the effect to global warming can be reduced, there are little combustible due to large ratio of hydrogen.

|                                        | R32                | R410A                                                            | R22                |
|----------------------------------------|--------------------|------------------------------------------------------------------|--------------------|
| Chemical formation                     | $CH_2F_2$          | CH <sub>2</sub> F <sub>2</sub> /CHF <sub>2</sub> CF <sub>3</sub> | CHCLF <sub>2</sub> |
| Composition<br>(Mixture ratio weight%) | Single composition | R32/R125<br>(50/50 weight%)                                      | Single composition |
| Boiling point                          | -51.7℃             | -51.5℃                                                           | -40.8°C            |
| Pressure at 50°C                       | 3.14               | 3.07                                                             | 1.94               |
| Performance at 0/50°C                  | 160                | 141                                                              | 100                |
| COP at Te/Tc/SC/SH=5/50/3/0°C          | 95                 | 91                                                               | 100                |
| ODP(Ozone Depletion Potential)         | 0                  | 0                                                                | 0.055              |
| GWP(Global Warming Potential)          | 675                | 2090                                                             | 1810               |
| Combustible charactarictic             | A2L                | A1                                                               | A1                 |
| Toxicity                               | No                 | No                                                               | No                 |

(ii) Pressure charactaristic

As mentioned in table 2, vapor pressure of R32 is almost same as R410A under the identical refrigerant temperature, and it has 1.6 times of high performance comparision with R22.

Therefore, tool and apparatus which are intended to be used under high pressure condition shall be required same as R410A when service and installation are implemented.

| Refrigerant | R32  | R410A | R22  |
|-------------|------|-------|------|
| -20         | 0.30 | 0.30  | 0.14 |
| 0           | 0.71 | 0.70  | 0.40 |
| 20          | 1.37 | 1.35  | 0.81 |
| 40          | 2.38 | 2.32  | 1.43 |
| 60          | 3.84 | 3.73  | 2.33 |
| 65          | 4.29 | 4.17  | 2.60 |

#### Comparison of saturated vapour pressure (MPa)

## 1-3) Combustion Charactaristic

R32 is possible to combust slightly when following conditions (gas density and ignition energy) coincide.

#### a) Combustible gas density by mixture with the air

In the event that if the ignition source which is possible to ignite is within the gas density mentioned in table 3, R32 might combust.

However, the combustible gas density of R32 is higher than that of propane's one.

In addition, since the combustible gas density condition of R32 is possible to cause hypoxia (density of oxygen in the air is less than 18%), this is not the environment where people can work normally.

| compassione density runge | Com | bustible | density | range |
|---------------------------|-----|----------|---------|-------|
|---------------------------|-----|----------|---------|-------|

|                            | R32  | Propane (Reference) |
|----------------------------|------|---------------------|
| Density upper limit (vol%) | 29.3 | 9.5                 |
| Density lower limit (vol%) | 13.3 | 1.8                 |

#### b) Energy necessary for ignition.

It is said that R32 is less combustible gas than propane, since the energy which enables to combust is big, for example, static electricity around the human body and electric lighter (few mJ) can not make it ignite.

#### Minimum energy to ignite

|                               | R32 | Propane |
|-------------------------------|-----|---------|
| Minimum energy to ignite (mJ) | 15  | 0.246   |

#### c) Combustion speed

Since the combustion speed of R32 is low, it never combusts explosively like propane.

#### Combustion speed

|                         | ^   |         |
|-------------------------|-----|---------|
|                         | R32 | Propane |
| Combustion speed (cm/s) | 6.7 | 38.7    |

Consequently, although the ignition never happens under the conditions of usual use and work, however, in the event of the ignition, please handle with great care because the fire might extend once the ignition occurs.

## 1-4) Refrigerant oil for R32

The refrigerant oil for R32 differs from the mineral oil which is being used for R22, since it is based on the synthetic oil for R32, please ensure to use the designated one.

## (2) Cautions for safety

- 2-1) Transport of equipment containing flammable refrigerantsIt is necessary to follow the applicable transport regulations during the transportation with respect to equipment containing flammable gas.
- 2-2) Marking of equipment using signs

All required signs are to be maintained and employers should ensure that employees receive suitable and sufficient instruction and training on the meaning of appropriate safety signs and the actions that need to be taken in connection with these signs.

- 2-3) Disposal of equipment using flammable refrigerants National Regulations shall be followed.
- 2-4) Symbols

The following symbols and the information of the warning marking shall be provided as follows:



Symbol ISO 7010- W021 (2011) Warning; Risk of fire/Flammable materials



Symbol ISO 7000-1641 (2004-01) Operator's manual; operating instructions



Symbol ISO 7000-1659 (2004-01) Service indicator; read technical manual

(a) WARNING

Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.

- (b) 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.
- (c) Do not pierce or burn.
- (d) Be aware that refrigerants may not contain an odour.

## (3) General

- 3-1) The following information shall be specified in the manual where the information is needed for the function of the manual and as applicable to the appliance:
  - (a) Information for spaces where refrigerant pipes are allowed, including statements
    - that the installation of pipe-work shall be kept to a minimum;
    - that pipe-work shall be protected from physical damage and, in the case of flammable refrigerants, shall not be installed in an unventilated space, if that space is smaller than Amin in Annex GG;
    - that compliance with national gas regulations shall be observed;
    - that mechanical connections made in accordance with 22.118 shall be accessible for maintenance purposes;
    - that, for appliances containing flammable refrigerants, the minimum floor area of the room shall be mentioned in the form of a table or a single figure without reference to a formula;
  - (b) The maximum refrigerant charge amount (M);
  - (c) The minimum rated airflow, if required by Annex GG;
  - (d) Information for handling, installation, cleaning, servicing and disposal of refrigerant;
  - (e) The minimum floor area of the room or the special requirements for the room in which an appliance containing flammable refrigerants can be located as defined in Annex GG, except where the refrigerant charge (M) is less than or equal to m1 (M ≤ m1);
  - (f) A warning to keep any required ventilation openings clear of obstruction;
  - (g) A notice that servicing shall be performed only as recommended by the manufacturer.

## 3-2) Qualification of workers

Every working procedure that affects safety means shall only be carried out by competent persons according to Annex HH. Examples for such working procedures are:

- Breaking into the refrigerating circuit;
- Opening of sealed components;
- Opening of ventilated enclosures.

#### ► 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, following precautions shall be taken prior to conducting work on the system.

#### ► 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.

#### ► 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 materials.

#### ► 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.

#### ▶ 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.

#### ► 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.

#### ► 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.

#### ► 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 including R32:

- 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.
- ► Checks to electrical devices

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

If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with.

If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used.

This shall be reported to the owner of the equipment so all parties are advised.

Initial safety checks shall include:

- that capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking;
- that no live electrical components and wiring are exposed while charging, recovering or purging the system;
- that there is continuity of earth bonding.

► 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.

#### ► 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.

## ► Cabling

(1) 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.

## ► 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.

## ► Leak detection methods

The following leak detection methods are deemed acceptable for all refrigerant systems.

- 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.
- (2) 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.
- (3) If a leak is suspected, all naked flames shall be removed/extinguished.
- (4) 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.

## 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.

## 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 pressure-tested 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.

## ▶ 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.

#### ► 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.

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## ► 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.

# INVERTER WALL MOUNTED TYPE RESIDENTIAL AIR-CONDITIONERS



MITSUBISHI HEAVY INDUSTRIES THERMAL SYSTEMS, LTD. 2-3, Marunouchi 3-chome, Chiyoda-ku, Tokyo, 100-8332, Japan http://www.mhi-mth.co.jp/en/

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