Manual No.'17•SRK-T-203

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INVERTER WALL MOUNTED TYPE RESIDENTIAL AIR-CONDITIONERS (Split system, air to air heat pump type)

SRK20ZSX-S 25ZSX-S 35ZSX-S 50ZSX-S 60ZSX-S

MITSUBISHI HEAVY INDUSTRIES THERMAL SYSTEMS, LTD.

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How to read the model name



1. SPECIFICATIONS

				Model	SRK20ZSX-S						
Item					Indo	or unit SRK20Z	SX-S	Outd	oor unit SRC20ZSX-S		
Power source	e					1 Ph	ase, 220 - 240\	, 50Hz / 220V	, 60Hz		
	Nominal cooling capa	city (range)		kW			2.0 (0.9(Min.) - 3.2 (Max.))			
	Nominal heating capa	city (range)	1	kW			2.7 (0.8(Min.) - 5.3 (Max.))			
	Heating capacity (H2)			kW			-	-			
			Cooling				0.32 (0.1	6 - 0.74)			
	Power consumption	Γ	Heating				0.47 (0.1	4 - 1.36)			
	Heating (H2		KVV			-	_				
	Max power consumption			1		1.92					
	Cooling						1.9 / 1.8 / 1.7 (2	220/ 230/ 240	V)		
	Running current Heating			A			2.6 / 2.5 / 2.4 (2	220/ 230/ 240	V)		
Operation	Inrush current max cu	urrent		1			25 N	lax 9	,		
data			Cooling				7	6			
	Power factor	ŀ	Heating	%				1			
	EED		Cooling				6	25			
			Upoting	{			5	74			
	COP	ŀ	Heating (10)	-			5.	/4			
			Heating (H2)			50	-	-	50		
	Sound power level	ŀ	Cooling	-		53			56		
			Heating	1		53			58		
	Sound pressure level	Ļ	Cooling	dB(A)	Hi: 38	Me: 31 Lo: 24	ULo: 19		43		
			Heating		Hi: 38	Me: 32 Lo: 25	ULo: 19		44		
	Silent mode sound pre	essure leve				-		Co	oling:33 / Heating:38		
Exterior dime	ensions (Height x Width	x Depth)		mm		305 x 920 x 220)	64	40 x 800 (+71) x 290		
Exterior appe	earance					Fine snow			Stucco white		
(Equivalent c	olor)				Munsell :	(8.0Y 9.3/0.1), F	RAL : 9003	Munsell	: (4.2Y 7.5/1.1), RAL : 7004		
Net weight				kg		13			43.0		
Compressor	type & Quantity					_		RMT5111	MCE2(Twin rotary type) x 1		
Compressor	motor (Starting method)		kW		_		0	.75 (Inverter driven)		
Refrigerant o	il (Amount, type)			l		-		0.35 (D	IAMOND FREEZE MA68)		
Refrigerant (Type, amount, pre-charg	ge length)		kg	R4	10A 1.45 in out	tdoor unit (Incl.	the amount fo	or the piping of 15m)		
Heat exchan	ger			1	Louver fi	ns & inner groov	ed tubing	M fins	& inner grooved tubing		
Refrigerant c	ontrol					Capilla	ry tubes + Elec	tronic expans	ion valve		
Fan type & Q	Juantity				-	Tangential fan x	1		Propeller fan x 1		
Fan motor (S	tarting method)			W	4	2 x1 (Direct driv	(e)		34 x1 (Direct drive)		
			Cooling		Hi: 11 3) 111 0: 5.0		31.0		
Air flow		ŀ	Heating	m³/min		No: 10.2 Lo: 7 (2 110:54		21.0		
	ornal atatia progoura		Heating	Do	FII. 12.2 P	0 NIE. 10.3 LO. 7.4	2 010. 3.4		31.0		
Available ext	ernal static pressure			га		U Nista secilita			0		
Outside air in	itake				Dahara	Not possible	h - h l -) O		—		
Air filter, Qua	lity / Quantity				Polypro	pylene net (Was	hable) x 2		_		
Shock & vibr	ation absorber			ļ	Rubber sleeve (for fan motor) Rubber sleeve (for fan			ve (for fan motor & compressor)			
Electric heate	er					-			_		
Operation	Remote control					Wireless - remote control					
control	Room temperature co	ntrol			Microcomputer thermostat						
00111101	Operation display					RUN	I: Green, TIMEF	R: Yellow, ECC	: Blue		
					Compressor overheat protection, Overcurrent protection,			rent protection,			
Safety equip	ments				Frost pro	tection, Serial s	ignal error prote	ection, Indoor	fan motor error protection,		
	1			ļ	Heating o	overload protect	ion(High press	ure control), (Cooling overload protection		
	Refrigerant piping size	e (O.D)		mm		Liquid line	e: φ6.35 (1/4")	Gas line: q	b9.52 (3/8")		
	Connecting method					Flare connection	n		Flare connection		
Installation	Attached length of pip	ing		m	Liquid li	ne : 0.55 / Gas li	ine : 0.48		_		
data	Insulation for piping					Neo	cessary (Both s	ides), indeper	ident		
duiu	Refrigerant line (one v	vay) length		m			Max	<.25			
	Vertical height diff. bet	ween O.U.	and I.U.	m	1	Max.15 (Outdoo	r unit is higher)	/ Max.15 (Out	door unit is lower)		
	Drain hose				Hose	e connectable (V	/P 16)		Holes φ20 x 5 pcs		
Drain pump,	max lift height			mm		_			_		
Recommend	ed breaker size			A			1	6			
L.R.A. (Locke	ed rotor ampere)			Α			2	.5			
Interconnecti	ing wires Size	x Core nur	nber		1.5mm	² x 4 cores (Inclu	uding earth cab	le) / Terminal	block (Screw fixing type)		
IP number	<u> </u>					IPX0	5		IPX4		
Standard acc	ressories				Mounting kit (Clean filter (Allera	en clear filter x 1	Photocatalyti	c washable deodorizing filter x 1)		
Option parts						olouit littor (raiorg	Interface kit	(SC-BIKN-F)			
	ion parts			1	1		intendee All				
Notes (1) The data are measur	ed at the f	ollowing con	ditions.			The pip	be length is 5m.			
[Item	Indoor	r air temperat	ure	Outdoor air	temperature					
	Operation	DB	W	в	DB	WB	Stand	arus			
	Cooling	27°C	19	°C	35°C	24°C	ISO515	51-T1			
	Heating	20°C		- 1	7°C	6°C	ISO515	i1-H1			
	Heating (H2)	20°C	-	-	2°C	1℃	ISO515	1-H2			
) This air-conditioner is	e manufac	tured and tax	stad in a		the ISO					
(3	 3) Sound level indicates 4) Select the breaker si 	s the value ze accordi	in an anech ing to the ow	oic chan n nation	nber. During o al standard.	peration these	values are son	newhat highe	r due to ambient conditions.		

				Model			SRK25	ZSX-S		
Item					Indo	or unit SRK25Z	SX-S	Outd	oor unit SRC25ZSX-S	
Power sourc	e					1 Ph	ase, 220 - 240V	, 50Hz / 220V,	, 60Hz	
	Nominal cooling capacity	y (range)		kW			2.5 (0.9(Min.)) - 3.7 (Max.))		
	Nominal heating capacity	y (range)		kW			3.2 (0.8(Min.)) - 5.8 (Max.))		
	Heating capacity (H2)			kW			_	-		
		Coolir	a				0.44 (0.1	6 - 0.89)		
	Power consumption	Heatin	a a	1			0.59 (0.1	4 - 1 54)		
		Heatin	9 a (H2)	kW				-		
	Max nower consumption		9 (112)	-			1 (22		
		Coolin	~			1.92				
	Running current Hosting						2.3/2.4/2.3(2	20/230/240	v)	
	lamate compart or compare	Heatir	g				3.2/3.0/2.9(2	20/ 230/ 240	v)	
Operation	Inrush current, max curre						3.0 10	ax. 9		
dala	Power factor	Coolin	g	%		80				
		Heatir	g				8	5		
	EER	Coolir	g				5.6	58		
	COP	Heatir	g				5.4	42		
	001	Heatir	g (H2)				-	-		
	Sound power level	Coolir	g			55			57	
		Heatir	g			56			58	
		Coolir	g	dB(A)	Hi: 39	Me: 33 Lo: 25	ULo: 19		44	
	Sound pressure level	Heatir	g	1	Hi: 40	Me: 34 Lo: 27	ULo: 19		45	
	Silent mode sound press	sure level		1		_		Co	oling:35 / Heating:39	
Exterior dime	ensions (Height x Width x I	Depth)		mm		305 x 920 x 220)	64	10 x 800 (+71) x 290	
Exterior appe	earance			İ	1	Fine snow			Stucco white	
(Equivalent c	olor)				Munsell :	(8.0Y 9.3/0.1), F	RAL : 9003	Munsell :	: (4.2Y 7.5/1.1), RAL : 7004	
Net weight				kg		13			43.0	
Compressor	type & Quantity			1		_		RMT5111	MCE2(Twin rotary type) x 1	
Compressor	motor (Starting method)			kW		_		0	.75 (Inverter driven)	
Refrigerant o	il (Amount, type)			l		_		0.35 (D	IAMOND FREEZE MA68)	
Refrigerant (Type, amount, pre-charge	lenath)		ka	B4	10A 1.45 in out	door unit (Incl.	the amount fo	or the piping of 15m)	
Heat exchan	ner				Louver fir	Louver fins & inner grooved tubing M fins & inner grooved tubing				
Refrigerant o	ontrol				Louvorin	Canilla	rv tubes + Flect	ronic expansi	on valve	
Fan type & C	Juantity				1	angential fan y	1		Propeller fan y 1	
Fail type & G	tarting mothod)			۱۸/	1	2 v1 (Direct driv	1			
Fan motor (S	tarting method)	Caslin		VV	4		7	,		
Air flow		Coolir	g	m³/min	HI: 12.2 N	1e: 10.0 Lo: 6.	7 UL0: 5.0		31.0	
		Heatir	g		HI: 12.8 K	ne: 11.0 Lo: 7.0	6 UL0: 5.4		31.0	
Available ext	ernal static pressure			Ра		0			U	
Outside air ir	ntake					Not possible			_	
Air filter, Qua	lity / Quantity				Polyprop	oylene net (Was	hable) x 2		_	
Shock & vibr	ation absorber				Rubbe	Rubber sleeve (for fan motor) Rubber sleeve (for fan			ve (for fan motor & compressor)	
Electric heat	er					-			-	
Operation	Remote control					Wireless - remote control				
operation	Room temperature contr	ol					Microcomput	er thermostat		
Control	Operation display					RUN	I: Green, TIMER	: Yellow, ECO	: Blue	
	·					Compressor of	overheat protec	tion, Overcurr	rent protection,	
Safety equip	ments				Frost pro	tection, Serial s	ignal error prote	ection, Indoor	fan motor error protection,	
	1				Heating o	verload protect	ion(High press	ure control), C	Cooling overload protection	
	Refrigerant piping size (C).D)		mm		Liquid line	e: φ6.35 (1/4")	Gas line: ¢	59.52 (3/8")	
	Connecting method					Flare connection	n		Flare connection	
Installation	Attached length of piping	9		m	Liquid lir	ne : 0.55 / Gas li	ine : 0.48		—	
data	Insulation for piping			ļ		Neo	cessary (Both si	ides), indepen	ident	
	Refrigerant line (one way	y) length		m			Max	.25		
	Vertical height diff. betwee	een O.U. and I.	J.	m	N	/lax.15 (Outdoor	r unit is higher)	/ Max.15 (Out	door unit is lower)	
	Drain hose				Hose	connectable (V	/P 16)	ŀ	Holes φ20 x 5 pcs	
Drain pump,	max lift height			mm		_			_	
Recommend	ed breaker size			A			1	6		
L.R.A. (Locke	ed rotor ampere)			A			3.	0		
Interconnect	ing wires Size x (Core number		1	1.5mm	² x 4 cores (Inclu	uding earth cab	le) / Terminal I	block (Screw fixing type)	
IP number						IPX0		,	IPX4	
Standard acc	cessories				Mounting kit. (Clean filter (Allero	en clear filter x 1	. Photocatalvti	c washable deodorizing filter x 1)	
Option parts			1			Interface kit	(SC-BIKN-F)			
	· - · · ·				1			(
Notes (i ne data are measured 	at the followi	ig cor	iaitions.			The pip	be length is 5m.		
	Item	Indoor air te	nperat	ture	Outdoor air	temperature	Stand	ards		
l l	Operation	DB	W	/B	DB	WB				
l l	Cooling	27°C	19	°C	35°C	24°C	ISO515	51-T1		
I L	Heating	20°C		T	7°C	6°C	ISO515	51-H1		
I [Heating (H2)	20°C			2°C	1°C	ISO515	51-H2		
	2) This air-conditioner is r	nanufactured	and te	sted in c	conformitv with	the ISO.				
	3) Sound level indicates t	he value in an	anech	ioic char	nber. Durina o	peration these	values are som	newhat highe	r due to ambient conditions.	
) (4	 Select the breaker size 	according to	the ow	n nation	nal standard.					

						SRK35ZSX-S				
Item					Indo	or unit SRK35Z	SX-S	Outd	oor unit SRC35ZSX-S	
Power source	e					1 Ph	ase, 220 - 240V	, 50Hz / 220V,	, 60Hz	
	Nominal cooling capac	city (range)		kW			3.5 (0.9(Min.)) - 4.3 (Max.))		
	Nominal heating capac	city (range)		kW			4.3 (0.8(Min.)) - 6.6 (Max.))		
	Heating capacity (H2)			kW						
			Cooling				0.78 (0.1	6 - 1.26)		
	Power consumption		Heating	kW.			0.90 (0.1	4 - 1.89)		
			Heating (H2)				-	-		
	Max power consumption						1.9	92		
	Bunning current		Cooling	-		:	3.9 / 3.7 / 3.6 (2	20/ 230/ 240V)		
	g = = = = = = = = = = = = = = = = =		Heating	A			4.4 / 4.3 / 4.1 (2	220/230/240	()	
Operation	Inrush current, max cu	rrent					4.3 M	lax. 9		
data	Power factor	-	Cooling	%			9	1		
			Heating				9	2		
	EER		Cooling	-			4.4	49		
	COP	-	Heating	-			4.	/8		
			Heating (H2)			50		-	04	
	Sound power level	-	Looting	-		58			60	
			Realing		15:40	58 Mai 05 Lai 00	LII at 10		02	
	Sound pressure level	-	Looting	UB(A)	HI: 43	Me: 35 Lo: 26	UL0: 19		48	
	Silant made sound pro				□1.41	vie. 35 L0. 20	UL0. 19	C_	47	
Extorior dime	Silent mode sound pre	x Dopth)	I	mm		205 x 020 x 220		00	$40 \times 800(171) \times 200$	
Exterior appe		x Depin)				Fine snow	,	0.	Stucco white	
(Equivalent c	olor)				Munsell :	(8.0Y 9.3/0.1). F	RAL : 9003	Munsell :	: (4.2Y 7.5/1.1). BAL : 7004	
Net weight)			ka		13			43.0	
Compressor	type & Quantity					_		RMT5111	MCE2(Twin rotary type) x 1	
Compressor	motor (Starting method))		kW		_		0	.90 (Inverter driven)	
Refrigerant o	il (Amount, type)	,		l		_		0.35 (D	IAMOND FREEZE MA68)	
Refrigerant (Type, amount, pre-charg	e length)		kg	R4	10A 1.45 in out	door unit (Incl.	the amount fo	or the piping of 15m)	
Heat exchan	ger	,			Louver fi	Louver fins & inner grooved tubing M fins & inner grooved tub				
Refrigerant c	ontrol					Capilla	ry tubes + Elect	tronic expansi	on valve	
Fan type & Q	uantity				-	Tangential fan x	1	-	Propeller fan x 1	
Fan motor (S	tarting method)			W	4	2 x1 (Direct driv	re)	3	34 x1 (Direct drive)	
Airflow			Cooling	m ³ /min	Hi: 13.1	Vie: 10.8 Lo: 7.	3 ULo: 5.0		36.0	
AIT HOW			Heating		Hi: 13.9	Vie: 11.8 Lo: 8.	6 ULo: 5.4		31.0	
Available ext	ernal static pressure			Pa		0			0	
Outside air ir	take					Not possible			-	
Air filter, Qua	lity / Quantity				Polypro	oylene net (Was	hable) x 2		_	
Shock & vibr	ation absorber				Rubbe	er sleeve (for fan	motor)	Rubber sleev	ve (for fan motor & compressor)	
Electric heate	er									
Operation	Remote control					Wireless - remote control				
control	Room temperature cor	ntrol				Microcomputer thermostat				
	Operation display					RUN	I: Green, TIMER	R: Yellow, ECO	: Blue	
Sofaty aquip	monto				Erect pro	Compressor overheat protection, Overcurrent protection,			rent protection,	
Salety equip	ments				Heating	verload protect	ion(High press	ure control) (Cooling overload protection	
	Refrigerant piping size	(O.D)		mm	liouting t	Liquid line	e: 6.35 (1/4")	Gas line: d	59.52 (3/8")	
	Connecting method	(-)				Flare connection	n l		Flare connection	
	Attached length of pip	ing		m	Liguid li	ne : 0.55 / Gas li	ine : 0.48		_	
Installation	Insulation for piping	0				Neo	cessary (Both si	ides), indepen	Ident	
dala	Refrigerant line (one w	vay) length		m			Max	(.25		
	Vertical height diff. bet	ween O.U.	and I.U.	m	1	Max.15 (Outdoo	r unit is higher).	/ Max.15 (Out	door unit is lower)	
	Drain hose				Hose	e connectable (V	/P 16)	ŀ	Holes φ20 x 5 pcs	
Drain pump,	max lift height			mm		_			_	
Recommend	ed breaker size			A			1	6		
L.R.A. (Locke	ed rotor ampere)			A			4.	.3		
Interconnecti	nterconnecting wires Size x Core number				1.5mm	² x 4 cores (Inclu	uding earth cab	le) / Terminal I	block (Screw fixing type)	
IP number						IPX0			IPX4	
Standard acc	cessories				Mounting kit, (Clean filter (Allerg	en clear filter x 1	, Photocatalyti	c washable deodorizing filter x 1)	
Option parts	otion parts						Interface kit	(SC-BIKN-E)		
Notes (1) The data are measure	ed at the f	ollowing con	ditions.			The pig	pe length is 5m.		
	Item	Indoor	air temperat	ure	Outdoor air	temperature				
	Operation	DB	W	B	DB	WB	Standa	ards		
	Cooling	27°C	19	°C	35°C	24°C	ISO515	51-T1		
	Heating	20°C	-	-	7°C	6°C	ISO515	i1-H1		
	Heating (H2)	20°C		-	2°C	1°C	ISO515	i1-H2		
	?) This air-conditioner is	s manufac	tured and ter	sted in a	onformitv with	the ISO.				
(3	 Sound level indicates Select the breaker size 	the value ze accordi	in an anech ng to the ow	oic char n nation	nber. During o al standard.	peration these	values are som	newhat highe	r due to ambient conditions.	

						SRK50ZSX-S				
Item					Indo	or unit SRK50Z	SX-S	Outd	oor unit SRC50ZSX-S	
Power sourc	e					1 Ph	ase, 220 - 240\	, 50Hz / 220V,	, 60Hz	
	Nominal cooling capac	ity (range)		kW			5.0 (1.0(Min.) - 5.8 (Max.))		
	Nominal heating capac	ity (range)		kW			6.0 (0.6(Min.) - 8.1 (Max.))		
	Heating capacity (H2)			kW				-		
		C	Cooling	1			1.30 (0.1	9 - 1.80)		
	Power consumption	H	leating	kW			1.36 (0.1	8 - 2.43)		
	N4	H	leating (H2)		2 90					
	Max power consumption	n	N 11		 6.0 / 5.7 / 5.5 (220/ 230/ 240\\\					
	Running current Cooling						6.0/5.7/5.5 (2	220/ 230/ 240	/)	
Oneration	Inruch ourront may our	ront	leating	A			5.2 / 0.0 / 5.7 (2	20/230/2401	/)	
data	Infusit current, max cur		`ooling				3.0 101	ax. 15 9		
dulu	Power factor		leating	%			9	9		
	FFR	0	Cooling				31	85		
		— Г	leating				4	41		
	COP	H	leating (H2)	-				_		
		C	Cooling			59			63	
	Sound power level	Н	leating			62			63	
		C	Cooling	dB(A)	Hi: 44	Me: 39 Lo: 31	ULo: 22		50	
	Sound pressure level	H	leating		Hi: 46	Me: 41 Lo: 33	ULo: 23		49	
	Silent mode sound pres	ssure level				_		Co	oling:42 / Heating:43	
Exterior dime	ensions (Height x Width >	(Depth)		mm		305 x 920 x 220)	64	10 x 800 (+71) x 290	
Exterior appe	earance				İ	Fine snow			Stucco white	
(Equivalent c	olor)				Munsell :	(8.0Y 9.3/0.1), F	RAL : 9003	Munsell :	(4.2Y 7.5/1.1), RAL : 7004	
Net weight				kg		13			45	
Compressor	type & Quantity					-		RMT5113	MCE2(Twin rotary type) x 1	
Compressor	motor (Starting method)			kW		-		1.	.50 (Inverter driven)	
Refrigerant o	il (Amount, type)			l		-		0.45 (D	IAMOND FREEZE MA68)	
Refrigerant (Type, amount, pre-charge	e length)		kg	R4	10A 1.50 in out	door unit (Incl.	the amount fo	r the piping of 15m)	
Heat exchan	ger				Louver fi	ns & inner groov	ved tubing	M fins	& inner grooved tubing	
Refrigerant c	ontrol					Capilla	ry tubes + Elec	tronic expansi	on valve	
Fan type & C	luantity				1	langential fan x	1		Propeller fan x 1	
Fan motor (S	tarting method)			W	4	2 x1 (Direct driv	e)	3	34 x1 (Direct drive)	
Air flow		C	Cooling	m³/min	Hi: 14.3 N	Me: 12.4 Lo: 7.	8 ULo: 5.4		39.0	
		H	leating		Hi: 17.3 M	Vie: 14.3 Lo: 9.	8 ULo: 6.2		33.0	
Available ext	ernal static pressure			Pa		0			0	
Outside air ir	itake				Daharan	Not possible	h a h l a) 0			
Air Iiiter, Qua	uity / Quantity				Polyprop	Rubber sleeve (for fan motor) Rubber sleeve (for				
Shock & VIDr	ation absorber				Rubbe	r sleeve (for fan	motor)	Rubber sleev	re (for fan motor & compressor)	
Liectric rieat	Bemote control						Wireless - re	mote control		
Operation	Boom temperature con	trol				Wireless - remote control				
control	Operation display					RUN	I Green TIMEE		- Blue	
	Operation display					Compressor	overbeat protect	tion Overcurr	ent protection	
Safety equip	ments				Frost pro	tection, Serial s	ignal error prote	ection, Indoor	fan motor error protection,	
					Heating c	verload protect	ion(High press	ure control), C	Cooling overload protection	
	Refrigerant piping size	(O.D)		mm		Liquid line	e: φ6.35 (1/4")	Gas line: ¢	512.7 (1/2")	
	Connecting method					Flare connection	n		Flare connection	
Installation	Attached length of pipi	ng		m	Liquid lii	ne : 0.55 / Gas li	ine : 0.48		_	
data	Insulation for piping					Neo	cessary (Both s	ides), indepen	dent	
	Refrigerant line (one w	ay) length		m			Max	k.30		
	Vertical height diff. betv	ween O.U. a	and I.U.	m	1	Max.20 (Outdoor	r unit is higher)	/ Max.20 (Out	door unit is lower)	
	Drain hose				Hose	e connectable (V	/P 16)	ŀ	loles φ20 x 5 pcs	
Drain pump,	max lift height			mm		—				
Recommend	ed breaker size			A			1	6		
L.R.A. (Locke	ed rotor ampere)			A	4.5	2 4 4 4	5.	.0		
Interconnect	ing wires Size >	Core numb	oer		1.5mm	x 4 cores (Inclu	uding earth cab	le) / Terminal t	block (Screw fixing type)	
IP number					Maximal life (Dhata a stal di	IPX4	
Standard acc	cessories				Mounting kit, C	Slean filter (Allerg	en clear filter x 1	, Photocatalytic	c washable deodorizing filter x 1)	
Option parts							Interface kit	(SC-BIKN-E)		
Notes (*	 The data are measure 	ed at the fo	llowing con	ditions.			The pi	be length is 5m.		
	Item	Indoor a	air temperat	ure	Outdoor air	temperature	Stand	ards		
	Operation	DB	W	В	DB	WB				
	Cooling	27°C	19	°C	35°C	24°C	ISO515	51-T1		
	Heating	20°C		-	7°C	6°C	ISO515	51-H1		
l l	Heating (H2)	20°C		-	2°C	1°C	ISO515	51-H2		
(2	2) This air-conditioner is	manufactu	ured and te	sted in c	conformity with	the ISO.				
(3	 Sound level indicates Select the breaker size 	the value i e accordin	in an anech g to the ow	oic char n nation	nber. During o Ial standard.	peration these	values are son	newhat highe	r due to ambient conditions.	

						SRK60ZSX-S			
Item					Indo	or unit SRK60Z	SX-S	Outdo	oor unit SRC60ZSX-S
Power source	е					1 Ph	ase, 220 - 240V	, 50Hz / 220V,	60Hz
	Nominal cooling capac	city (range)		kW			6.1 (1.0(Min.)) - 6.8 (Max.))	
	Nominal heating capao	city (range)		kW			6.8 (0.6(Min.)) - 8.7 (Max.))	
	Heating capacity (H2)			kW			-	_	
			Cooling				1.81 (0.1	9 - 2.50)	
	Power consumption	Γ	Heating				1.67 (0.1	8 - 2.86)	
		[Heating (H2)	KVV			-	_	
	Max power consumption		1			2.9	90		
	Bupping ourrent		Cooling				8.3 / 7.9 / 7.6 (2	220/ 230/ 240	/)
	Running current	Γ	Heating	A			7.7 / 7.3 / 7.0 (2	220/ 230/ 240	/)
Operation	Inrush current, max cu	irrent					5.0 Ma	ax. 15	
data	Power factor		Cooling	0/			9	9	
	Power lactor		Heating	70			9	9	
	EER		Cooling				3.0	37	
	COD		Heating				4.0	07	
	COP		Heating (H2)				-	-	
			Cooling			62			65
	Sound power level	Γ	Heating	1		63			64
			Cooling	dB(A)	Hi: 46	Me: 41 Lo: 33	ULo: 22		52
	Sound pressure level	Γ	Heating	1	Hi: 46	Me: 42 Lo: 34	ULo: 23		52
	Silent mode sound pre	essure leve	I	1		_		Coo	oling:42 / Heating:43
Exterior dime	ensions (Height x Width	x Depth)		mm		305 x 920 x 220)	64	40 x 800(+71) x 290
Exterior appe	earance					Fine snow			Stucco white
(Equivalent c	olor)				Munsell :	(8.0Y 9.3/0.1), F	RAL : 9003	Munsell :	(4.2Y 7.5/1.1), RAL : 7004
Net weight				kg		13			45
Compressor	type & Quantity					_		RMT5113	MCE2(Twin rotary type) x 1
Compressor	motor (Starting method))		kW		-		1.	50 (Inverter driven)
Refrigerant o	il (Amount, type)			l		_		0.45 (DI	AMOND FREEZE MA68)
Refrigerant (1	Type, amount, pre-charg	ge length)		kg	R4	10A 1.50 in out	tdoor unit (Incl.	the amount fo	r the piping of 15m)
Heat exchange	ger				Louver fi	Louver fins & inner grooved tubing M fins & inner grooved tu			
Refrigerant c	ontrol					Capilla	ry tubes + Elect	tronic expansio	on valve
Fan type & Q	uantity				-	langential fan x	1		Propeller fan x 1
Fan motor (S	tarting method)			W	4	2 x1 (Direct driv	re)	3	34 x1 (Direct drive)
Air flow			Cooling	m ³ /min	Hi: 16.3 N	/le: 13.4 Lo: 8.9	9 ULo: 5.4		41.5
AILIOW			Heating		Hi: 17.8 N	le: 13.7 Lo: 10	.9 ULo: 6.2		39.0
Available exte	ernal static pressure			Pa		0			0
Outside air in	take					Not possible			_
Air filter, Qua	lity / Quantity				Polypro	oylene net (Was	hable) x 2		_
Shock & vibra	ation absorber				Rubbe	er sleeve (for fan	motor)	Rubber sleev	/e (for fan motor & compressor)
Electric heate	er					Wireless - remote control Microcomputer thermostat			—
Oneration	Remote control								
operation	Room temperature cor	ntrol							
Control	Operation display					RUN	I: Green, TIMER	R: Yellow, ECO:	: Blue
						Compressor	overheat protec	tion, Overcurr	ent protection,
Safety equip	ments				Frost pro	tection, Serial s	ignal error prote	ection, Indoor	fan motor error protection,
	Define the initial sector	(0.0)			Heating o	overioad protect	ion(High press	ure control), C	ooling overload protection
	Refrigerant piping size	e (O.D)		mm		Liquia line	e: φ6.35 (1/4°)	Gas line: ø	5 12.7 (1/2 ⁻)
	Connecting method				ا امینا ا	Flare connection	n ing i 0,40		Flare connection
Installation	Attached length of pip	ing		m		1e : 0.55 / Gas I	ine : 0.48		-
data	Definition for piping	ما المربع ما ال				INEG	Cessary (Both S	ides), independ	dent
	Reingerant line (one w	vay) length		m		Aav 00 (Outdag		(.30 (May 00 (Out	
	Drain base	ween 0.0.	and I.U.	m	l Haar		r unit is nigher).		
Drain pump	Drain nose				HUSE	e connectable (v	(P 10)	Г	toles $\varphi_{20} \times 5 \text{ pcs}$
Drain pump,	max int neight			mm		—	1	6	—
				A				0	
L.R.A. (LOCKE	a rotor ampere)		ala av	A	1.5	² 4	.C	.U	
Interconnecti	ng wires Size :	x Core nur	nber		I.imi	X 4 Cores (Inclu	uding earth cab	ie) / Terminal D	
IP number					Mounting kit (IPAU	on clear filter y 1	Dhotopotolutic	
Standard acc	essories				wounting kit, v	Jean Iliter (Allerg	en clear liller x l	, Photocatalytic	c washable deodorizing liller x 1)
Option parts	Option parts						interiace kit	(SU-BININ-E)	
Notes (1) The data are measure	ed at the f	ollowing con	ditions.			The pip	be length is 5m.	
[Item	Indoor	r air temperat	ure	Outdoor air	temperature	Ctord	arde	
•	Operation	DB	W	В	DB	WB	Sianda	aius	
	Cooling	27°C	19	°C	35°C	24°C	ISO515	51-T1	
	Heating	20°C	-	-	7°C	6°C	ISO515	1-H1	
	Heating (H2)	20°C	-	-	2°C	1°C	ISO515	i1-H2	
(2) This air-conditioner is	s manufac	tured and te	sted in c	onformity with	the ISO.			
(3)) Sound level indicates) Select the breaker size	s the value ze accordi	in an aneching to the ow	oic chan n nation	nber. During o al standard.	peration these	values are som	newhat higher	due to ambient conditions.

2. EXTERIOR DIMENSIONS

(1) Indoor units

Models SRK20ZSX-S, 25ZSX-S, 35ZSX-S, 50ZSX-S, 60ZSX-S





RCT000Z019

(2) Outdoor units



RCT000Z020

φ 12.7(1 / 2")(Flare) Service valve connection (Liquid side) ϕ 6.35(1/4")(Flare) Service valve connection (Gas side)

Content

Symbol

∢

- The unit must be fixed with anchor bolts. An anchor bolt must not The unit must not be surrounded by walls on the four sides.
- If the unit is installed in the location where there is a possibility of strong winds, place the unit such that the direction of air from the
 - outlet gets perpendicular to the wind direction. Leave 200mm or more space above the unit.
- The model name label is attached on the front side of the unit











Unit:mm

9.06

142 500

(3) Remote control

Wireless remote control

Unit : mm





(b) Wired remote control (option parts) Interface kit (SC-BIKN-E) is required to use the wired remote control.



Wiring specifications

 If the prolongation is over 100m, change to the size below. But, wiring in the remote control case should be under 0.5mm². Change the wire size outside of

the case according to wire connecting. Waterproof treatment is necessary at the wire connecting section. Be careful about contact failure.

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

PJZ000Z295

3. ELECTRICAL WIRING

(1) Indoor units

Models SRK20ZSX-S, 25ZSX-S, 35ZSX-S, 50ZSX-S, 60ZSX-S





RWA000Z412



20S	CNDOC	CUZND	CNEEV	CNFAN	CNTH	CM	EEV	FMo	_	TH2	TH3	TH4
20S	CNDOC	CUZND	CNEEV	CNFAN	CNTH	CM	EEV	FMo	_	TH2	TH3	TH4
				_								
4 way valve (coil)	Connector	CONTRECTOR				Compressor motor	Electric expansion valve (coil)	Fan motor	Reactor	Heat exchanger sensor	Outdoor air temp. sensor	Discharge pipe temp. sensor

Models SRC50ZSX-S, 60ZSX-S



CN20S Connector CNEEV	CONFAN CONFAN	Color marks	Mark Color CM Compressor motor	BK Black EEV Electric expansion valve (coil	BL Blue FMo Fan motor	RD Red L1,2 Reactor	WH White TH1 Heat exchanger sensor
Connecting cable wire size x number*		1.5mm ² x 4			l electricity		ult is used
Power cable length (m)		13	2		ing to national or regiona		at a metal or plastic cond
Power cable wire size x number*		2.0mm ² x 3			reliow / Green) hould be chosen accordi		ea on me assumption me
MAX running current (A)		15	2	L	ircuit breaker capacity sl		e specifications are past
Model name		0-40700010	SRC60ZSX-S		Switchgear or ci	regulations.	

The wire numbers include earth wire (Yellow/Green)
 Switchgear or circuit breaker capacity should be chosen according to national or regional electricity regulations.
 The power cable specifications are based on the assumption that a metal or plastic conduit is used with no more than three cables contained in a conduit and a voltage drop is 2%. For an installation failing outside of these conditions, please follow the national or regional electricity regulations.

Discharge pipe temp. sensor Outdoor air temp. sensor

Yellow/Green

Yellow Red White

> 끳 ĥ

Ŧ TH2 TH3

ISO5151 T1/H1

Condition
 Mike position

1m

4. NOISE LEVEL



(Indoor Unit)									
Model	S	SRK20ZSX-S							
Noise	Cooling	38 dB(A)							
Level	Heating	38 dB(A)							



(Outdoor Unit)

Model	S	RC20ZSX-S	•Mike position: at highest noise level in position as mentioned below
Noise	Cooling	43 dB(A)	Distance from from side fin
Level	Heating	44 dB(A)	
			\sim x ····· Cooling, \bigcirc — realing





Model	SRC25ZSX-S							
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





Model	S	SRC35ZSX-S							
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





Model	SRC50ZSX-S								
Noise	Cooling	50 dB(A)							
Level	Heating	49 dB(A)							

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





Model	SRC60ZSX-S									
Noise	Cooling	52 dB(A)								
Level	Heating	52 dB(A)								

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



5. PIPING SYSTEM

Models SRK20ZSX-S, 25ZSX-S, 35ZSX-S



Models SRK50ZSX-S,60ZSX-S



6. RANGE OF USAGE & LIMITATIONS

Models		
Item	SRK20, 25, 35ZSX-S	SRK50, 60ZSX-S
Indoor return air temperature (Upper, lower limits)	Cooling operation : App Heating operation : App (Refer to the selection cl	roximately 18 to 32° C D.B. roximately 10 to 30° C D.B. nart)
Outdoor air temperature (Upper, lower limits)	Cooling operation : App Heating operation : App (Refer to the selection cl	roximately -15 to 46° C D.B. roximately -20 to 24° C D.B. nart)
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	Ratin	$g \pm 10\%$
Voltage at starting	Min. 85	% of rating
Frequency of ON-OFF cycle	Max. 4 (Inching preve	times/h ntion 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-S 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-S

Model SRK35ZSX-S

							1	ndoor a	air temp)					
Air flow	Outdoor	21°C	DB	23°0	DB	26°C	DB	27°C	DB	28°C	DB	31°C	DB	33°C	DB
AIT NOW	air temp.	14°C	WB	16°CWB		18°CWB		19°C	WB	20°C	WB	22°C	WB	24°C	WB
		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
Hi	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
11.3	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
(m³/min)	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
	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
	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

Cooling Mode

(kW)

I	Heating Mode (H	HC)				(kW)						
Air flow	outdoor air temp.	indoor air temp										
		16°CDB	18°CDB	20°CDB	22°CDB	24°CDB						
	-15°CWB	1.66	1.63	1.59	1.55	1.52						
	-10°CWB	1.88	1.85	1.82	1.78	1.74						
	-5°CWB	2.04	2.01	1.97	1.94	1.91						
Hi	0°CWB	2.13	2.10	2.07	2.04	2.01						
12.2	5°CWB	2.72	2.69	2.67	2.62	2.58						
(m³/min)	6°CWB	2.76	2.73	2.70	2.67	2.63						
	10°CWB	2.94	2.91	2.89	2.85	2.82						
	15°CWB	3.20	3.17	3.14	3.11	3.08						
	20°CWB	3.43	3.41	3.39	3.35	3.32						

Model	SRK2	5ZS2	X-S							Cooling	Mode				(kW)
							1	ndoor a	air temp	5					
A	Outdoor	21°0	CDB	23°0	DB	26°0	DB	27°C	DB	28°0	DB	31°C	CDB	33°0	CDB
AIr flow	air temp.	14°C	CWB	16°C	WB	18°C	WB	19°C	WB	20°C	WB	22°C	CWB	24°C	WB
		тс	SHC	тс	SHC	TC	SHC	TC	SHC	тс	SHC	тс	SHC	TC	SHC
	10	2.82	2.64	2.95	2.60	3.06	2.75	3.11	2.72	3.16	2.70	3.26	2.83	3.34	2.76
	12	2.77	2.62	2.90	2.58	3.01	2.74	3.07	2.71	3.12	2.68	3.22	2.82	3.31	2.73
	14	2.71	2.58	2.85	2.56	2.97	2.71	3.03	2.69	3.08	2.66	3.18	2.80	3.28	2.72
	16	2.66	2.53	2.80	2.54	2.92	2.70	2.98	2.67	3.04	2.65	3.15	2.79	3.24	2.71
	18	2.60	2.47	2.74	2.52	2.88	2.68	2.94	2.66	2.99	2.63	3.11	2.76	3.20	2.70
	20	2.55	2.42	2.68	2.49	2.83	2.66	2.89	2.64	2.95	2.62	3.07	2.75	3.17	2.69
	22	2.49	2.37	2.63	2.47	2.78	2.64	2.84	2.62	2.90	2.60	3.02	2.73	3.13	2.68
Hi	24	2.43	2.31	2.57	2.44	2.72	2.59	2.80	2.60	2.85	2.58	2.98	2.72	3.08	2.67
12.2	26	2.37	2.25	2.51	2.38	2.67	2.54	2.74	2.59	2.80	2.56	2.93	2.71	3.04	2.66
(m³/min)	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
	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
	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	2.62
	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	2.61
	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	2.60
	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
ŀ	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	2.58
	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

Cooling Mode

I	Heating Mode (H	łC)				(kW)						
Air flow	outdoor air temp.	indoor air temp										
		16°CDB	18°CDB	22°CDB	24°CDB							
	-15°CWB	1.97	1.93	1.88	1.84	1.80						
	-10°CWB	2.23	2.19	2.16	2.10	2.06						
	-5°CWB	2.41	2.38	2.33	2.30	2.27						
Hi	0°CWB	2.53	2.49	2.45	2.42	2.38						
12.8	5°CWB	3.22	3.19	3.17	3.10	3.06						
(m³/min)	6°CWB	3.27	3.24	3.20	3.16	3.12						
	10°CWB	3.48	3.45	3.42	3.38	3.34						
	15°CWB	3.79	3.75	3.73	3.69	3.65						
	20°CWB	4.07	4.04	4.02	3.97	3.94						

Nodel	SRK35		Cooling Mode (k)												
							I	ndoor air temp							
A := 61	Outdoor	21°C	DB	23°C	DB	26°C	DB	27°C	DB	28°C	DB	31°C	CDB	33°C	CDB
AIF NOW	air temp.	14°C	WB	16°C	WB	18°C	WB	19°C	WB	20°C	WB	22°C	WB	24°C	WB
		TC	SHC	тс	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
	10	3.94	3.46	4.13	3.40	4.28	3.57	4.35	3.53	4.43	3.49	4.56	3.64	4.68	3.55
	12	3.87	3.42	4.06	3.37	4.22	3.55	4.29	3.51	4.37	3.47	4.51	3.62	4.63	3.53
	14	3.80	3.39	3.99	3.34	4.16	3.52	4.24	3.49	4.31	3.45	4.46	3.61	4.59	3.52
	16	3.72	3.36	3.91	3.31	4.09	3.50	4.18	3.46	4.25	3.43	4.40	3.59	4.54	3.50
	18	3.65	3.32	3.84	3.28	4.03	3.47	4.11	3.44	4.19	3.40	4.35	3.57	4.49	3.49
	20	3.57	3.28	3.76	3.24	3.96	3.44	4.05	3.41	4.13	3.38	4.29	3.55	4.43	3.47
	22	3.49	3.24	3.68	3.20	3.89	3.42	3.98	3.39	4.06	3.36	4.23	3.53	4.38	3.46
Hi	24	3.40	3.20	3.59	3.17	3.81	3.39	3.91	3.36	3.99	3.33	4.17	3.51	4.32	3.44
13.1	26	3.32	3.15	3.51	3.13	3.74	3.35	3.84	3.34	3.92	3.31	4.11	3.49	4.26	3.42
(m³/min)	28	3.23	3.07	3.42	3.10	3.66	3.32	3.77	3.30	3.85	3.28	4.04	3.47	4.20	3.40
	30	3.14	2.98	3.33	3.06	3.58	3.29	3.70	3.28	3.78	3.25	3.98	3.44	4.13	3.37
	32	3.05	2.90	3.24	3.02	3.50	3.26	3.62	3.25	3.70	3.22	3.91	3.42	4.06	3.36
	34	2.95	2.81	3.14	2.98	3.41	3.23	3.54	3.22	3.62	3.19	3.84	3.39	4.00	3.33
	35	2.91	2.76	3.10	2.94	3.37	3.20	3.50	3.20	3.58	3.18	3.80	3.38	3.96	3.32
-	36	2.86	2.72	3.05	2.90	3.33	3.16	3.46	3.19	3.54	3.17	3.76	3.37	3.92	3.31
	38	2.76	2.62	2.95	2.80	3.24	3.08	3.38	3.16	3.46	3.14	3.69	3.35	3.85	3.29
	39	2.71	2.57	2.90	2.75	3.20	3.04	3.33	3.15	3.42	3.12	3.65	3.34	3.81	3.28

I	Heating Mode (H	HC)				(kW)
Air flow	outdoor indoor air temp				р	
	un tomp:	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB
	-15°CWB	2.65	2.59	2.53	2.48	2.42
	-10°CWB	2.99	2.94	2.90	2.83	2.77
	-5°CWB	3.24	3.20	3.13	3.10	3.05
ні	0°CWB	3.40	3.35	3.29	3.25	3.20
13.9	5°CWB	4.33	4.28	4.26	4.17	4.11
(m ³ /m in)	6°CWB	4.40	4.35	4.30	4.25	4.19
	10°CWB	4.68	4.63	4.60	4.54	4.49
	15°CWB		5.04	5.01	4.95	4.91
	20°CWB	5.47	5.42	5.40	5.34	5.29

Notes(1) These data show average statuses.

(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 fixed.
(2) Capacities are based on the following conditions. Corresponding refrigerant piping length :7m 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-S

Model SBK607SX-S

Model SRK50ZSX-S				Cooling Mode (kW)											
				Indoor air temp											
A:= 6	Outdoor	21°C	21°CDB		23°CDB		26°CDB 27°0		DB	DB 28°CDB		31°CDB		33°CDB	
AIT HOW	air temp.	14°C	CWB	16°C	WB	18°C	18°CWB		19°CWB		WB	22°CWB		24°CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
	10	5.63	4.45	5.90	4.37	6.11	4.54	6.22	4.48	6.32	4.42	6.51	4.57	6.69	4.43
	12	5.53	4.40	5.80	4.32	6.03	4.50	6.14	4.45	6.25	4.39	6.44	4.54	6.62	4.40
	14	5.43	4.34	5.70	4.28	5.94	4.47	6.05	4.42	6.16	4.36	6.37	4.51	6.55	4.38
	16	5.32	4.29	5.59	4.23	5.85	4.43	5.96	4.38	6.08	4.33	6.29	4.48	6.48	4.36
	18	5.21	4.24	5.48	4.18	5.75	4.39	5.88	4.34	5.99	4.29	6.21	4.45	6.41	4.33
	20	5.10	4.18	5.37	4.13	5.65	4.35	5.78	4.31	5.90	4.26	6.13	4.42	6.33	4.31
	22	4.98	4.13	5.25	4.08	5.55	4.30	5.69	4.26	5.80	4.21	6.05	4.39	6.25	4.28
Hi	24	4.86	4.07	5.14	4.02	5.45	4.25	5.59	4.22	5.71	4.18	5.96	4.36	6.17	4.25
14.3	26	4.74	4.01	5.01	3.97	5.34	4.21	5.49	4.18	5.61	4.14	5.87	4.33	6.08	4.23
(m³/min)	28	4.61	3.95	4.89	3.91	5.23	4.16	5.39	4.14	5.50	4.10	5.78	4.30	5.99	4.20
	30	4.49	3.89	4.76	3.86	5.11	4.12	5.28	4.10	5.40	4.06	5.68	4.26	5.90	4.17
	32	4.35	3.82	4.63	3.80	5.00	4.07	5.17	4.05	5.29	4.02	5.58	4.22	5.81	4.13
	34	4.22	3.76	4.49	3.74	4.88	4.01	5.06	4.01	5.18	3.98	5.48	4.19	5.71	4.10
	35	4.15	3.73	4.42	3.70	4.82	3.99	5.00	3.99	5.12	3.95	5.43	4.17	5.66	4.08
	36	4.08	3.70	4.35	3.67	4.76	3.96	4.94	3.96	5.06	3.93	5.37	4.15	5.61	4.07
	38	3.94	3.63	4.21	3.61	4.63	3.91	4.82	3.91	4.94	3.88	5.27	4.11	5.50	4.04
	39	3.87	3.60	4.14	3.58	4.57	3.89	4.76	3.89	4.88	3.86	5.21	4.09	5.45	4.02

Cooling Mode

Heating Mode (HC) (kW									
Air flow	outdoor air temp.	indoor air temp							
		16°CDB	18°CDB	20°CDB	22°CDB	24°CDB			
	-15°CWB	3.69	3.61	3.53	3.45	3.38			
	-10°CWB	4.18	4.10	4.05	3.95	3.86			
	-5°CWB	4.52	4.46	4.37	4.32	4.25			
Hi	0°CWB	4.74	4.67	4.59	4.54	4.47			
17.3	5°CWB	6.04	5.97	5.94	5.82	5.74			
(m³/min)	6°CWB	6.14	6.07	6.00	5.92	5.85			
	10°CWB	6.52	6.46	6.42	6.34	6.27			
	15°CWB	7.10	7.04	6.99	6.91	6.85			
	20°CWB	7.63	7.57	7.53	7.45	7.39			

Model	SRK60)ZS	X-S	S Cooling Mode (kW)											
							I	ndoor a	air tem	c					
A:= 61=	Outdoor	21°C	21°CDB		CDB	26°0	26°CDB		27°CDB		CDB	31°CDB		33°0	CDB
AIT IIOW	air temp.	14°C	CWB	16°C	CWB	18°C	CWB	19°C	CWB	20°C	CWB	22°CWB		24°CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
	10	6.87	5.29	7.19	5.21	7.46	5.38	7.58	5.30	7.72	5.23	7.94	5.38	8.16	5.21
	12	6.75	5.23	7.07	5.14	7.35	5.33	7.48	5.26	7.62	5.19	7.86	5.35	8.08	5.18
	14	6.62	5.17	6.95	5.08	7.24	5.28	7.38	5.22	7.52	5.15	7.77	5.31	8.00	5.15
	16	6.49	5.10	6.82	5.02	7.13	5.23	7.28	5.18	7.42	5.11	7.68	5.27	7.91	5.12
	18	6.36	5.03	6.69	4.96	7.02	5.18	7.17	5.13	7.31	5.06	7.58	5.24	7.82	5.09
	20	6.22	4.96	6.55	4.89	6.89	5.13	7.06	5.08	7.20	5.02	7.48	5.20	7.73	5.06
	22	6.08	4.89	6.41	4.83	6.77	5.07	6.94	5.01	7.08	4.96	7.38	5.16	7.63	5.03
Ні	24	5.93	4.81	6.27	4.76	6.64	5.00	6.82	4.97	6.96	4.91	7.27	5.13	7.53	4.99
16.3	26	5.78	4.74	6.12	4.69	6.51	4.95	6.70	4.92	6.84	4.86	7.16	5.08	7.42	4.95
(m ³ /min)	28	5.63	4.66	5.96	4.62	6.38	4.89	6.57	4.86	6.71	4.82	7.05	5.04	7.31	4.92
	30	5.47	4.59	5.81	4.55	6.24	4.83	6.44	4.81	6.58	4.76	6.93	5.00	7.20	4.88
	32	5.31	4.51	5.65	4.48	6.10	4.78	6.31	4.76	6.45	4.71	6.81	4.95	7.08	4.85
	34	5.15	4.43	5.48	4.40	5.95	4.72	6.17	4.71	6.31	4.66	6.68	4.91	6.96	4.81
	35	5.07	4.39	5.40	4.36	5.88	4.69	6.10	4.68	6.24	4.63	6.62	4.89	6.90	4.78
	36	4.98	4.35	5.31	4.32	5.80	4.65	6.03	4.65	6.17	4.61	6.56	4.86	6.84	4.76
	38	4.81	4.27	5.14	4.25	5.65	4.59	5.89	4.59	6.03	4.55	6.42	4.81	6.71	4.72
	39	4.72	4.23	5.05	4.21	5.57	4.56	5.81	4.57	5.95	4.53	6.36	4.79	6.65	4.70

Heating Mode (HC) (kW) indoor air temp outdoor air temp. Air flow 16°CDB 18°CDB 20°CDB 22°CDB 24°CDB -15°CWB 4.18 4.09 4.00 3.92 3.83 -10°CWB 4.73 4.65 4.59 4.47 4.38 4.82 -5°CWB 5.05 4.95 4.90 5.13 0°CWB 5.38 5.30 5.20 5.14 5.07 Hi 17.8 5°CWB 6.85 6.77 6.73 6.60 6.51 (m³/min) 6°CWB 6.96 6.88 6.80 6.71 6.63 10°CWB 7.39 7.32 7.28 7.11 7.18 15°CWB 8.05 7.98 7.92 7.83 7.76 8.44 20°CWB 8.58 8.54 8.37 8.65

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 fixed.

fixed.
(2) Capacities are based on the following conditions. Corresponding refrigerant piping length :7m Level difference of Zero.
(3) Symbols are as follows.
TC : Total cooling capacity (kW) SHC : Sensible heat capacity (kW) HC : Heating capacity (kW)

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8. APPLICATION DATA

(1) Installation of indoor unit

Model SRK20,25,35,50,60ZSX-S

RLF012A200

R410A REFRIGERANT USED

• This installation manual deals with an indoor unit installation only. For an outdoor unit installation, refer to page 30.

SAFETY PRECAUTIONS

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.

- to the near 0 using the second
- The preclationary tients memories below are usinglusted into who levels, <u>accuration of an experimentation</u> and <u>accuration of an experimentation</u>. Be such that the user's manual.
 Sequences such as death or severe injury.
 Acaution indicates a potentially hazardous situation which, if not avoided, can result in personal inju-nor property damage.
 Both mention the important items to protect your health and safety. Therefore, strictly follow them by any means.
 Be such to explain the operating interformation as well as the instrumentation interformation of the explaint and operating interformation of the instrumentation interformation of the explaint and operating interformation of the instrumentation of the instrumentation of the instrumentation of the instrumentation of the experimentation of the instrumentation of the inst

Be sure to use only for residential purpose. If this unit is installed in inferior environment such as machine shop, vehicle (like ship), warehouse 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 etc., it can malfunction. etc., it can mailunction. 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. 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. Liean and column the present and the specified components for the installation. In the event of retrigerant teakage during instantic, a construction of the refrigerant comes into contact with naked flames, poisonous gases will be produced. Electrical work must be carried out by the qualified electrician, strictly in accordance with national or regional electricity regulations. Incorrect installation can cause electric shock, fire or personal injury. Make sure that earth leakage breaker and circuit breaker of appropriate ca-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-person line in the state of the sta pracities are installed. Circuit breaker should be able to disconnect all poles under over current. Absence of appropriate In leave gase documents the sentence of the se breakers can cause electric shock, personal injury or property damage. Be sure to switch off the power source in the event of installation, mainte nance or service. If the power source is not switched off, there is a risk of electric shock, unit failure or personal injury. Be sure to tighten the cables securely in terminal block and relieve the 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 Install the unit in a location where unit will remain stable, horizontal and free of any vibration transmission. Unsuitable installation location can cause the unit to fall resulting in material damage and personal injury. Do not run the unit with removed panels or protections. Unsuble installation rotating equipments, hot surfaces or high voltage parts occurs entrapment, burn or electric shock.
This unit is designed specifically for R410A. Using any other refrigerant can cause unit failure and personal injury.
Do not vent R410A into atmosphere. R410A is a fluoninated greenhouse gas with a Global Warning Potential(GWP)=2088.
Make sure that no air enters the refrigerant circuit when the unit is installed and removed. If air enters the refrigerant circuit when the unit is installed can cause burst and personal injury.
Be sure to use the prescribed pipes, flare nuts and tools for R410A. Using existing parts (for R22 or R407C) can cause refrigerant circuit burst resulting in unit failure or persornal injury.
Be sure to connect both liquid and gas connecting pipes properly before or erating the compressor. Do not open the liquid and gas service valves before completing piping work. - d ovacuation.
If a when connecting pipes are not connected and service valves are one cause anomalous high pressure resulting in compressor.
If a when connecting pipes are not connected and service valves are one cause anomalous high pressure resulting in compressor.
If a when connecting pipes are not connected and service valves are open cause anomalous high pressure resulting in a contex of the power source cable with power source properly. Improper connection can cause intrusion of dust or water resulting in 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. Take care when carrying the unit by hand. If the unit weight is more than 20kg, it must be carried by two or more persons. Do not carry the unit by the plastic straps. Always use the carry handle. Do not install the outdoor unit in a location where insects and small animals Do not install the unit in the locations where: There are heat sources nearby Unit is directly exposed to rain or sunlight. There is any obstacle which can prevent smooth air circulation from inlet and outlet side of the unit. Unit is directly exposed to oil mist and steam such as kitchen. can inhabit. 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. 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 noise or air generating from the unit. It can affect surrounding environment and cause a claim. Do not install in the locations where unit is directly exposed to corrosive gases (like sulphide gas, chloride gas), sea breeze or salty atmosphere. It can cause corrosion of heat exchanger and damage to plastic parts. Do not install the unit close to the equipments that generate electromagnetic • waves and/or high-harmonic waves. Equipment such as inverters, standby generators, medical high frequency equipments and telecomal injury. Instruct the user to keep the surroundings clean Height above sea level is more than 1000m. It can cause performance degradation, corrosion and damage of components, unit malfunction and fire. Dispose of all packing materials properly. Packing materials contain nails and wood which can cause personal injury. Keep the polybag away from children to avoid the risk of suffocation. Do not put anything on the outdoor unit. Object may fall causing property damage or personal injury. Do not touch the aluminum fin of the outdoor unit. Aluminium fin temperature is high during heating operation. Touching fin can cause burn. Do not touch any refrigerant pipe with your hands when the system is in operation. During operation the refrigerant pipes become extremely hot or extremely cold depending on the operating condition. Touching pipes can cause personal injury like burn (hot/cold). Equipment such as inverters, standby generators, medical high frequency equipments and telecom-munication equipments can affect the system, and cause malfunctions and breakdowns. The system can also affect medical equipment and telecommunication equipment, and obstruct its function or cause jamming.

Install isolator or disconnect switch on the power source wiring in accor-dance with the local codes and regulations. The isolator should be locked in OFF state in accordance with EN60204-1.

1. ACCESSORIES AND TOOLS Standard accessories (supplied with indoor unit) Locally procured parts Tools for installation Work Plus headed di pe cutte (5) Wood screws (for remote control holder ø3.5 X 16mm) (1) Installation board 1pc 2pcs NE (b) Sealing plate (1pc) Knife Hole core drill (65mm in diameter) (c) Inclination plate (1pc) Wrench key (Hexagon) [4m/m] (6) Batteries [R03 (AAA, Micro) 1.5V] (2) Wireless remote control 2pc (d) Putty Tape measure Flaring tool set* 1pc (e) Connecting cable Gas leak detecto Torque wrench (14.0-62.0N·m (1.4-6.2kgf·m)) Pipe bender Drain hose (extension hose) (A) Remote control holder 1pc (7) Air-cleaning filters 🖉 2pc Piping cover (for insulation of connection piping) Flare adjustment gauge Plier (g) Designed specifically for R410A (4) Tapping screws (for installation board ø4 X 25mm) 0 4pcs (8) Insulation (#486 50 X 100 t3) (h) Clamp and screw (for finishing work) 1pc (i) Electrical tape

7.0

Installation example

2. SELECTING INSTALLATION LOCATION



1. Indoor unit

- Indoor unit
 Where there is no obstruction to the airflow and where the cooled and heated air can be evenly distributed.
 A solid place where the unit or the wall will not vibrate.
 A place where there will be enough space for servicing. (Where space mentioned on the right side can be secured.)
 Where it is easy to conduct wiring and piping work.
 A place where unit is not directly exposed to sunlight or street light.
 A place where it can be assilt drained.

- A place where unit is not directly exposed to sumight or street light.
 A place where it can be easily drained.
 A place separated at least 1m away from the television or the radio. (To prevent interference to images and sounds.)
 A place where this unit is not affected by the high frequency equipment or electric equipment.
 A void installing this unit in place where there is much oil mist.
 A place where there is no telectric equipment or household.
 Install the indoor unit on the wall where the height from the floor to the bottom of the unit is more than 180 cm.

2. Wireless remote control

O1

0 :

- A place where the air-conditioner can receive the signal surely during operating the wirel remote control.
 A place where it is not affected by the TV and radio etc.
 Do not place where it is exposed to direct sunlight or near heat devices such as a stove. can receive the signal surely during operating the wireless

3. INSTALLING INSTALLATION BOARD

630 568



10 cm minin

from the w



6.5 cm minimum from the ceiling (In the case of less than 10 cm, there is a possibility of performance degradation.)

stallation board 10 cm minimum from the wall

NOR.

4. DRILLING HOLE AND FIXTURE OF SLEEVE

When drilling the wall that contains a metal lath, wire lath or metal plate, be sure to use sealing plate, sleeve and inclination plate (Locally procured parts).

(a) Sleeve

(a) Slee 5° - C. ø65 Indoor side Outdoor side (1) Drill a hole with hole core drill.



Outdoor side (3) Fix sealing plate, sleeve and inclination plate.

(b) Sealing plate

(c) Inclination plate

Turn ti tighter

D 1		
•	Installed state	
9		

≜ CAUTION After passing the wirings and pipes through the hole, completely seal the hole on the wall with putty to prevent water leakage.

(d) Putty 1 ŀ (d) Putty

.70

Unit: mn

480 (Gas pipe)

533 (Drain hose) 548 (Liquid pipe)

56.4 7.4

(Service

5. ELECTRICAL WIRING WORK

 Before installation, make sure that the power source complies with the air-conditioner's power specification. · Carry out electrical wiring work according to following guidelines.

1. Preparing cable

(1) Selecting cable
 Select the connecting cable in accordance with the specifications mentioned below.
 4-core* 1.5mm² conformed with 60245 IEC57 (CENELEC H05RN-F)
 * 1 Earth wire is included (Yellow/Green).

(2) Arrange each wire length as shown below.

Make sure that each wire is stripped 10mm from the end.

<Connecting cable> <Wire end>

```
30mm or more
```

NOTE

40mm or more

Open the cap using a fine-tipped tool.

When opening the cap, exercise care not to damage the design surface.

(3) Attach round crimp-type terminal to each wire as shown in the below. Select the size of round crimp-type terminal after considering the specifications of terminal block and wire diameter.

5



Bottom panel

±0.

-0

Screw (in the cap)



Connecting cable
 (1) Remove the terminal cover.
 (2) Remove the cable clamp.
 (3) Connect the connecting wires to the terminal block.
 (4) Fix the connecting cable by cable clamp.
 (5) Fix the terminal cover.

NOTE

Take care not to confuse the terminal numbers for indoor and outdoor connections.







Power source voltage complies with the rated voltage of air-conditioner.	
Earth leakage breaker and circuit breaker are installed.	
Power cable and connecting cable are securely fixed to the terminal block.	
Both liquid and gas service valves are fully open.	
No gas leaks from the joints of the service valves.	
Indoor and outdoor side pipe joints have been insulated.	
Hole on the wall is completely sealed with putty.	
Drain hose and cap are installed properly.	
Screw of the terminal cover is tightened securely.	

check following points during test run.	
Indoor unit receives signal of wireless remote control.	
Air-conditioning operation is normal.	
There is no abnormal noise.	
Water drains out smoothly.	
Display of wireless remote control is normal.	

After test run

Explain the operating and maintenance methods to the user according to the user's manual.	
Keep this installation manual together with user's manual.	

During restart or change in operation mode, the unit will not start operating for approximately 3 minutes. This is to protect the unit and it is not malfunction.

(2) Installation of outdoor unit

RWC012A060 A

Model SRC20,25,35,40,50,60ZSX-S SRC20.25.35ZSX-SA **R410A REFRIGERANT USED**

• This installation manual deals with an outdoor unit installation only. For an indoor unit installation, refer to page 26.

SAFETY PRECAUTIONS

- Before installation, read the "SAFETY PRECAUTIONS" carefully and strictly follow it during the installa-tion work in order to protect yourself. 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.
- ton work in order to protect yourself.

 The precautionary items mentioned below are distinguished into two levels. WARNING and ACAUTION
 WARNING Indicates a potentially hazardous situation which, if not avoided, can result in serious consisting the user's manual.

 CAUTION
 Indicates a potentially hazardous situation which, if not avoided, can result in personal
 invox or protect yourself.

 Be sure to keep the installation manual together with user's manual at a place where it is easily accessible to the user and the manual together with user's manual at a place where it is easily accessible to the user and the manual together with user's manual at a place where it is easily accessible to the user and the manual together with user's manual at a new user, whenever required.

 Indicates a potentially hazardous situation which, if not avoided, can result in personal
 invox or protect damage.

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

 During pump down work, be sure to stop the compressor before closing service valves and removing connecting pipes.
 If the connecting pipes are removed when the compressor is in operation and service valves are open, air can be sucked into the refrigerant circuit which can cause anomalous high pressure result-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. Installation must be carried out by the qualified installer completely in accor-dance with the installation manual. dance with the installation manual. Installation by non qualified person or incorrect installation can cause serious troubles such as water leak, electric shock, fire and personal injury.
Be sure to wear protective goggles and gloves while performing installation work. Improper safety measures can result in personal injury.
Use the original accessories and the specified components for the installation. Using parts other than those prescribed may cause water leak, electric shock, fire and personal injury.
Do not install the unit near the location where leakage of flammable gases can occur. If leaked gases accumulate around the unit, it can cause fire resulting in property damage and per-sonal injury. ing in burst or personal injury. Ing in burst or personal injury. In the event of refrigerant leakage during installation, be sure to ventilate the working area properly. If the refrigerant comes into contact with naked flames, poisonous gases will be produced. Electrical work must be carried out by the qualified electrician, strictly in 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-nacities are installed Make sure trait earn leakage breaker and circuit breaker of appropriate Ca-pacities are installed. Circuit breaker should be able to disconnect all poles under over current. Absence of appropriate breakers can cause electric shock, personal injury or property damage. Be sure to switch off the power source in the event of installation, mainte-nance or service. sonal iniur When installing the unit in small rooms, make sure that refrigerant density does not exceed the limit (Reference: ISO5149) in the event of leakage. If refrigerant density exceeds the limit, consult the dealer and install the ventilation system. 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. Otherwise lack of oxygen can occur resulting in sector and instant to voluntation of starts. Install the unit in a location where unit will remain stable, horizontal and free of any vibration transmission. Unsuitable installation location can cause the unit to fall resulting in material damage and personal injury. Loses 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 plug can cause fire or electric shock due to poor connection, insuffi-cient insulation or over-current. 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, bum or electric shock. This unit is designed specifically for R410A. Using any other refrigerant can cause unit failure and personal injury. • Do not vent R410A into atmosphere. 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 component of the unit. Component or 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, anomalous heat production or fire. 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 3mm. Improper detrical work can cause unit failure or presonal injury. and removed.
If air enters the refrigerant circuit, the pressure in the refrigerant circuit will become too high, which is an ease burst and personal injury.
Be sure to use the prescribed pipes, flare nuts and tools for R410A.
Using existing parts (for R22 or R407C) can cause refrigerant circuit burst resulting in unit failure and personal injury.
Be sure to connect both liquid and gas connecting pipes properly before operating the compressor.
Do not open the liquid and gas service valves before completing piping work, and evacuation.
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 electric shock or fire.
Be sure to connect the power source cable with power source properly. Improper connection can cause electric shock 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 electric shock or fire.
Be sure to connect the power source cable with power source properly. Improper connection 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. and removed. burst or personal injury. Be sure to tighten the flare nuts to specified torque using the torque wrench. Tightening flare nuts with excess torque can cause burst and refrigerant leakage after a long period. **▲** CAUTION Take care when carrying the unit by hand. If the unit weight is more than 20kg, it must be carried by two or more persons. Do not carry the unit by the plastic straps. Always use the carry handle. Do not install the outdoor unit in a location where insects and small animals Do not install the unit in the locations where: Do not install the unit in the locations where:
There are heat sources nearby.
Unit is directly exposed to rain or sunlight.
There is any obstacle which can prevent smooth air circulation from inlet and outlet side of the unit.
Unit is directly exposed to oil mist and steam such as kitchen.
Chemical substances like ammonia (organic fertilizer), calcium chloride (snow melting agent) and acid (sulfurous acid etc.), which can harm the unit, will generate or accumulate.
Drain water can not be discharged properly.
TV set or radio receiver is placed within 1m.
Height above sea level is more than 1000m.
It can cause and from correspondent and damage of components, unit malfunction and from. can inhabit. Insects and small animals can enter the electrical parts and cause damage resulting in fire or personalinjuy. Instruct the user to keep the surroundings clean. If the outdoor unit is installed at height, make sure that there is enough space for installation, maintenance and service. Insufficient space can result in personal injury due to falling from the height. Do not install the unit near the location where neighbours are bothered by noise or air generating from the unit. 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. It can affect surrounding environment and cause a claim. Do not install in the locations where unit is directly exposed to corrosive gases (like sulphide gas, chloride gas), sea breeze or salty atmosphere. It can cause corrosion of heat exchanger and damage to plastic parts. Do not install the unit close to the equipments that generate electromagnetic waves and/or high-harmonic waves. Keep the polybag away from children to avoid the risk of suffocation. Keep the polybag away from children to avoid the risk of suffocation. Do not put anything on the outdoor unit. Object may fall causing property damage or personal injury. Do not touch the aluminum fin of the outdoor unit. Aluminium fin temperature is high during heating operation. Touching fin can cause burn. Do not touch any refrigerant pipes with your hands when the system is in operation. During operation the refrigerant pipes become extremely hot or extremely cold depending on the operating condition. Touching pipes can cause personal injury like burn (hot/cold). Install isolator or disconnect switch on the power source wiring in accor-dance with the local codes and regulations. The isolator should be locked in OFF state in accordance with EN60204-1. Equipment such as inverters, standby generators, medical high frequency equipments and telecom-munication equipments can affect the system, and cause malfunctions and breakdowns. The system can also affect medical equipment and telecommunication equipment, and obstruct its function or cause jamming

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*			
		(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) [4m/m]	Charge hose *			
*Not included for SRC20, 25, or 35ZS	X-SA.	(d) Connecting pipe	Tana maggura	Eloring tool oot *	Vacuum pump adapter*			
		(e) Connecting cable	Tape measure	Flailing 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 R410A			

2. OUTDOOR UNIT INSTALLATION

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.
- (Queries user) is intervent. A person carrying the right hand side must take care of this fact. A person carrying the left hand side must hold the handle provided on the front panel of the unit with his right hand and the corner column section of the unit with his left hand



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 ain or sullight.
 Unit is not directly exposed to ail mist and steam.
 Chemical substances like ammonia (organic fertilizer), calcium chloride (snow melting agent) and acid
- (sulfurous acid etc.), which can harm the unit, will not generate or accumulate. Unit is not directly exposed to corrosive gases (like sulphide gas, chloride gas), sea breeze or salty atmosphere.
- No TV set or radio receiver is placed within 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 following measures are required

direction.

(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 the outlet gets perpendicular to the wind

(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. PREPARATION FOR WORK

1. Removing service cover



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.
 - 1111111111 L3 Inlet 🞵

Example installation Size	Ι	II	III	IV
L1	Open	280	280	180
L2	100	75	Open	Open
L3	100	80	80	80
L4	250	Open	250	Open

Outlet 🞵 _____

NOTE

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

A CAUTION

When more than one unit are installed in parallel directions, provide sufficient inlet space so that 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. (1) Install drain elbow and drain grommet. (2) Seal around the drain elbow and drain grommet with putty or adequate caulking material.

<SRC20/25/35/40/50/607SX-S>



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.)

<SRC20/25/35ZSX-SA



Do not block the drain holes when installing the

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.





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

2. Removing terminal cover ve the screw and take out terminal cover



4. CONNECTING PIPING WORK

1. Restrictions on unit installation

Abide by the following res Improper installation can of	trictions on unit inst cause compressor f	allation. ailure or perform	nar	nce degradation.			
	Dimensional r	restrictions]		[
	Model SRC20/25/35	Model SRC40/50/60]				I
Connecting pipe length(L)	25m or less	30m or less	1				
Elevation difference between indoor and outdoor units(H)*	15m or less	20m or less)—]	J

* 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 pipe	ø9.52	ø12.7				

Liquid pipe ø6.35

Pipe wall thickness must be greater than or equal to 0.8 mm. Pipe material must be O-type (Phosphorus deoxidized seamless copper pipe ICS 23.040.15, ICS 77.150.30).

NOTE

S

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

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

- A -	Copper pipe	A	œl	Copper pipe	Rigid (clutch) type	
	outer diameter	-0.4		outer diameter	R410A	Conventional
lil I	ø6.35	9.1		ø6.35		
	ø9.52	13.2		ø9.52	0-0.5	1.0-1.5
	ø12.7	16.6		ø12.7		

3.2. Connecting pipes(1) Connect pipes on both liquid and gas sides(2) Tighten nuts to specified torque shown in th in the table below

(_)				
Operation valve size (mm)	Tightening torque (N·m)			
ø6.35 (1/4")	14-18			
ø9.52 (3/8")	34-42			
ø12.7 (1/2")	49-61			



≜ CAUTION

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

5. UTILIZATION OF EXISTING PIPE

Are the outdoor and indoor units connected to the exist	ing pipe system ?] <u>NO</u>
YES 🚽		
Is it possible to run the unit ?		
YES 🚽		
Does the existing unit use any of the following refrigera Suniso, MS, Barell Freeze, HAB, Freol, ether oil, ester o	nt oils ? sil.	NO
YES 🚽		-
Do the existing pipe specifications (pipe length, pipe size and elevation tion of the unit.? (Go to 4.Connecting piping work and check 1.Restricti	difference between indoor and outdoor unit) conform to the restric- ions on unit installation and 2.Preparation of connecting pipe.)	
YES		
s the existing pipe system free of corrosion, flaws and dents	NO Repair the damaged parts.	Repair is impossible.
YES the existing pipe system free of gas leaks? (Check whether refrigerant charge was required requently for the system before.)	NO Check the pipe system for air tightness	Air tightness is
YES	Air tightness is O	К.
Are heat insulation materials of the existing pipe systen free of peel-off or deterioration? (Heat insulation is necessary for both gas and liquid pipes.)	NO Repair the damaged parts.	Repair is impossible.
YES	Repair	
Is the existing piping system free of any loose pipe support	NO Repair the loose pipe support.]
YES		
The existing pipe system is reusable.	The existing pipe system is not reusable.	

4. Evacuation

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

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

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 operation valves. (Do not attempt to turn valve rod beyond its stop.)
(8) Tighten service valve caps and service port cap to the specified torque shown in the table below.





To prevent the entering of different oil into the refrigeration system, do not use tools designed for any other refrigerant type (R22, R407C, etc.).
 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 volume as shown in the table below.

actory charged volume as shown	I III the table below.	
	Model SRC 20/25/35	Model SRC40/50/60
Factory charged volume(kg)	1.45	1.50

5.2 Charging refrigerant

5.2 Charging refrigerant (1) Charge the R410A refrigerant in liquid phase from service port with both liquid and gas service valves shut. Since R410A refrigerant must be charged in the liquid phase, make sure that refriger-ant is discharged from the cylinder in the liquid phase all the time. (2) When it is difficult to charge a required refrigerant volume, 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 at-tached on the service cover. tached on the service cover.

▲ CAUTION

Running the unit with an insufficient quantity of refrigerant for a long time 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 oismoutor in the area, it you need to recover reingerant and charge it again.
 (2) Clean the existing pipe system according to the procedure given below.
 (a) Carry out forced cooling operation of existing unit for 30 minutes.
 For 'Forced cooling operation' refer to the indoor unit installation manual.
 (b) Stop the indoor fan and carry out forced cooling operation for 3 minutes (Liquid return).
 (c) Close the liquid service valve of the outdoor unit and carry out pump down operation (Refer to 6. PUMP DOWN).
 (d) Blow with pitrogen gas. If discolared refigeration oil or any foreign matter is discharged by the
- (d) Blow with nitrogen gas. If discolored refrigeration oil or any foreign matter is discharged by the (a) Dow with nucleon gas and a second of a second of any local in 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 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	0.06kg/m	
Dine size	ø9.52	
Pipe size	Gas pipe	ø12.7
Maximum one-way pipe length		10
Length covered without additional charge		5

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

AND

Charge h



- Connect charge hose of gauge manifold to service port of outdoor unit.
 Close the liquid service valve with hexagonal wrench key.
 Fully open the gas service valve with hexagonal wrench key.
 Carry out forced cooling operation (For forced cooling operation procedure, refer to indoor unit installation

- manual). (5) When the low pressure gauge becomes 0.01MPa, close the gas service valve and stop forced cooling operation.

7. ELECTRICAL WIRING WORK

- · Make sure that all the electrical work is carried out in accordance with the national or regional

Make sure that all electrical standar Make sure that the (Refer to the table Do not turn on the Do not use a conduct does not impro- (It does not impro-	Il the electrical work is ca rds. le earth leakage breaker e given below). e power until the electric densive capacitor for po we power factor. Moreov	arried out in accordance with th and circuit breaker of appropri al work is completed. wer factor improvement under a rer, it can cause an abnormal o	e national or regional ate capacities are installed any circumstances. verheat accident).	
Breaker specification	ons			
Model	Phase	Earth leakage breaker	Circuit breaker	
SRC20/25/35 Leakage current: 30mA, Over current: 16A				
SRC40/50/60 Single phase 0.1sec or less Over current: 20A				
Main fuse specifica	tion			

1 Proparing cal	blo		
SRC40/50/60	250V 20A	SSA564A136A	F4
SRC20/25/35	250V 15A	SSA564A136	F4
Model	Specification	Parts No.	Code on LABEL, WIRING

1.Preparing cable
 (1) Selecting cable
 Select the power source cable and connecting cable in accordance with the specifications mentioned below
 (a) Power source cable
 3-core* 2.0mm² or more, conformed with 60245 IEC57
 When selecting the power source cable length, make sure that voltage drop is less than 2%.
 If the wire length gets longer, increase the wire diameter.
 (b) Connecting cable
 4-core* 1.5mm², conformed with 60245 IEC57
 * 1 Earth wire is included (Yellow/Green).
 (2) Arrange each wire length as shown below.
 Make sure that each wire is stripped 10mm from the end.

30mm or mor

Select the size of round crimp-type terminal after considering the specifications of terminal block and wire

Round crimp-type termi

6

Earth v

(3) Attach round crimp-type terminal to each wire as shown in the below

0mm or more

<Power source cable> 30mm or more

Earth wire

diameter.



2.Connecting cable

- 2. Connecting cable
 (1) Remove the service cover.
 (2) Connect the cables according to the instructions and figures given below.
 (a) Connect the cables according to the instructions and figures given below.
 (a) Connect the earth wire onger than the remaining two wires of power source cable.
 (b) Connect the remaining two wires of power source cable.
 (c) Connect the earth wire of connecting cable. Make sure that for each wire, outdoor and indoor side terminal numbers match.
 (a) Fasten the cables properly with cable clamps so that no external force may work on terminal connections.
 - tions. Moreover, make sure that cables do not touch the piping, etc. When cables are connected, make sure that all electrical components within the electrical component box are free of loose connector coupling or terminal connection.

<Circuit diagram>



<SRC20/25/35>

<SRC40/50/60>



Power source cable and connecting cable must conform to the specifications mentioned in the manual. Using cables with wrong specifications may result in unit malfunction.

8. FINISHING WORK

- 1. Heating and condensation prevention
- (2) Wrap the refrigerant pipings of indoor unit with indoor unit heat insulation is wrapped tightly around the pipes and no gap is left between them.
 (2) Wrap the refrigerant pipings of indoor unit with indoor unit heat insulation using tape.
 (3) Cover the fare-connected joints (indoor side) with the indoor unit heat insulation and wrap it with an insulation pad (standard accessory provided with indoor unit).
- (4) Wrap the connecting pipes, connecting cable and drain hose with the tape



2.Finishing work

- (1) Dress the connecting pipes (both liquid and gas pipes) with insulation to prevent it from heating and dew condensation. Use the heat insulation is wrapped tightly around the pipes and no gap is left between them.
 - (3) Install the service cover securely. Water may enter the unit if service cover is not installed properly, resulting in unit malfunction and failure.



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

NOTE

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

▲ CAUTION

- Improper insulation can cause condensate(water) formation during cooling operation.
 Condensate can leak or drip causing damage to household property.
 Poor heat insulating capacity can cause pipe outer surface to reach high temperature during heating operation. It can cause cable deterioration and personal injury.

9. INSTALLATION TEST CHECK POINTS

After finishing the installation work, check the following points again before turning on the power Conduct test run (Refer to indoor unit installation manual) and ensure that the unit operates properly.

Power source voltage complies with the rated voltage of air-conditioner.	
Earth leakage breaker and circuit breaker are installed.	
Power cable and connecting cable are securely fixed to the terminal block.	
Both liquid and gas service valves are fully open.	

·	
No gas leaks from the joints of the service valves.	
Indoor and outdoor side pipe joints have been insulated.	
Drain hose (if installed) is fixed properly.	
Screw of the service cover is tightened properly.	

9. OUTLINE OF OPERATION CONTROL BY MICROCOMPUTER

(1) Operation control function by wireless remote control



(2) Unit ON/OFF button

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

(a) Operation

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

(b) Details of operation

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

Function Operation mode	Room temperature setting	Fan speed	Flap/Louver	Timer switch	
COOL	About 24°C				
DRY	About 25°C	Auto	Auto	Continuous	
HEAT	About 26°C				Unit ON/OFF button

(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)



Jumpre wire (J1)

(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) Disconnect the switching line next to the battery with wire cutters.
- (iii) Insert batteries. Close the cover.

(b) Setting an indoor unit

- (i) Turn off the power source, and turn it on after 1 minute.
- (ii) Point the wireless remote control (that was set according to the procedure described on the left side) at the indoor unit 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-BIKN-E) SW2-4	Function
Shorted	ON	Enabled factory default setting
Shorted	OFF	Disabled
Open	ON	Disabled
Open	OFF	Disabled



(b) Content of control

- (i) If the outdoor air temperature sensor (TH2) detects below 5°C, the indoor unit speed is switched to 8th step.
- (ii) If the outdoor air temperature sensor (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.

(8) Eco 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 *eight* 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



Low	When the extent of human
	When the extent of human
High	movement is high
None	When there is no one in the room

• 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.

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) Airflow direction adjustment

Airflow 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	Ţ	<u>م</u>
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



(c) Swing

(i) Swing flap

Flap moves in upward and downward directions continuously.

(ii) Swing louver

Louver moves in left and right directions continuously



(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 swin at the position. Since this angle is memorized in the microcomputer, the flap or louver will automatically be set at this angle w 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	HI	MED	LO					
Cooling	Room temp. – Setting temp. >5°C	Room temp. – Setting temp. $\leq 5^{\circ}$ C		MED	LO				
	HIGH POWER AUTO		- HI						
Heating	Setting temp. – Room temp. >5°C Setting temp. – Room temp. ≦								
	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/rig	nt swing				

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

	Cooling Heating						
Flap	Up/dow	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. $> 5^{\circ}C$
	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.

(12) Silent operation

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

	SRK20ZSX-S		SRK25ZSX-S		SRK35ZSX-S		SRK50ZSX-S		SRK60ZSX-S	
	Cooling	Heating								
Outdoor fan speed (Upper limit)	4th speed	4th speed	4th speed	5th speed	5th speed	6th speed	5th speed	5th speed	5th speed	5th speed
Compressor speed (Upper limit)	18 rps	26 rps	24 rps	32 rps	36 rps	44 rps	52 rps	52 rps	52 rps	52 rps

(13) Night setback operation

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

(14) Airflow range setting

Take the air-conditioner location into account and adjust the left/right airflow 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 airflow 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 airflow 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) 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)								

*It can be set the indoor fan motor off or the heating thermostat OFF with connecting a wired remote control. 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	SEKJOZEV S	CDK257CV C		CRKE07CV C	SPK607SV S	
Fan speed	3HK2023A-3	3hk2j23A-3	3hk3j23x-3	3hkj023A-3	511100257-5	
Auto	12-78rps	12-86rps	12-98rps	12-106rps	12-120rps	
HI	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	
ECO	12-42rps	12-50rps	12-66rps	12-78rps	12-90rps	

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.

(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)
 - Outdoor heat exchanger sensor (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.







- 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 (TH1) temperature: 13°C (models SRK50, 60 : 10°C) or higher
 - 2) Continued operation time of defrost operation \rightarrow For more than 18 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

Linit	$\circ C$
Unit	C

		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".

(18) 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.

N N	lodel SPK207CX C		CDK257CV C	CDKE07CV C	CDKC07CV C	
Fan speed	SHK2025A-5	5RK2525A-5	3HK3323X-3	5HK3025A-5	31100237-3	
Auto	12-50rps	12-58rps	12-74rps	12-86rps	12-110rps	
HI	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	
ECO	12-34rps	12-38rps	12-54rps	12-70rps	12-90rps	

(19) 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 unit 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.

(20) 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. Unit∶℃

	Signals of wireless 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

(21) Protective control function

Dew prevention control [Cooling] (a)

Prevents dewing on the indoor unit.

Operating conditions (i)

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

Compressor's speed is 22 rps or higher. 1)

68

2) Detected value of humidity is 68% or higher.

Contents of operation (ii)

1) Air capacity control

Item	Model	SRK20, 25ZSX-S	SRK35ZSX-S	SRK50, 60ZSX-S			
	Upper limit of compressor's speed	RangeA: 40rps, RangeB: 24rps	RangeA: 45rps, RangeB: 24rps	RangeA: 50rps, RangeB: 24rps			
OLO	Indoor fan	4th speed					
10	Upper limit of compressor's speed	RangeA: 40rps, RangeB: 24rps	RangeA: 45rps, RangeB: 24rps	RangeA: 50rps, RangeB: 24rps			
LU	Indoor fan	Adaptable to compressor speed					
	Upper limit of compressor's speed	RangeA: 40rps, RangeB: 30rps	RangeA: 45rps, RangeB: 30rps	RangeA: 50rps, RangeB: 30rps			
AUTO, HI, MED	Indoor fan	Ada	ptable to compressor sp	beed			
Note (1) Ranges A and	B are as shown below.						
Range A	Range B						



2) When this control has continued for more than 30 minutes continuously,the following wind direction control is performed.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.

(iii) Reset condition

Humidity is less than 63%.

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

(i) Operating conditions

(ii)

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

, e	1 1		opoou			-
Detail of anti-frost operati	Lower		↓ ·			
Indoor heat exchanger temperature	5°C or lower	2.5°C or lower	limit ⁻ speed			
Lower limit of compressor command speed	22 rps(models SRK50, 60 : 25 rps)	0 rps	0 rps -			
Indoor fan	Depends on operation mode	Keep the fan speed before frost prevention control		2.5	5	8
Outdoor fan	Depends on compressor speed	Den en de en eten me de	-	Indoor h	leat ex	change
4-way valve	OFF	Depends on stop mode		temp	eratur	e (°C)

compressor

cnood

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

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

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

(iii) Reset conditions

When either of the following condition is satisfied.

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

(c) Cooling overload protective control

(i) Operating conditions

When the outdoor air temperature (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.

SRK50, 60

Item	SR	K20, 25, 35ZS)	K-S	SRK50,	60ZSX-S
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

SRK20, 25, 35





(ii) Detail of operation

- 1) The outdoor fan is stepped up by 3 speed step. [Upper limit 8 th speed.]
- 2) 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



(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. Notes

When the temperature is P3 °C or higher, the compressor is stopped (2)When the outdoor heat exchanger temperature is in the range of P1-P2 °C, if the compressor speed is been maintained and the operation has continued for (3) more than 20 seconds at the same speed, it returns to the normal cooling operation.

(e) Cooling low outdoor air temperature protective control

(i) **Operating conditions**

When the outdoor air temperature (TH2) is 22°C or lower continues for 20 seconds while the compressor speed is other than 0 rps.

Values of A, B, C, D

Detail of operation (ii)

- 1) It controls the upper and lower limit values for the compressor speed according to the following table.
- It checks the outdoor temperature (TH2) once every hour to judge the operation range. 2)





	Outdoor air temperature (°C)								
	Α	в	С	D					
SRK20, 25, 35	0	3	22	25					
SRK50, 60	9	11	22	25					

(iii) **Reset conditions**

When either of the following condition is satisfied.

- The outdoor air temperature (TH2) is D°C or higher. 1)
- The compressor speed is 0 rps. 2)

(f) Heating high pressure control

(i) Purpose

Prevents anomalous high pressure operation during heating.

(ii) Detector

Indoor heat exchanger sensor (Th2)

(iii) Detail of operation



Notes (1) When the indoor heat exchanger temperature is in the range of B-C °C, the speed is reduced by 4 rps at each 10 seconds. (2) When the indoor heat exchanger temperature is in the range of C-D °C, the speed is reduced by 8 rps at each 10 seconds. When the temperature is D °C

or higher continues for 1 minute, the compressor is stopped.
(3) When the indoor heat exchanger temperature is in the range of A-B °C, if the compressor speed is been maintained and the operation has continued for more than 20 seconds at the same speed, it returns to the normal heating operation.

(4) Indoor fan retains the fan speed when it enters in the high pressure control. Outdoor fan is operated in accordance with the speed.

• Temperature list

				Unit : °C
	A	В	С	D
RPSmin < 50	45	52	54.5	57
50 < RPSmin < 115	45	52	57	61
115 ≦ RPSmin < 120	45 - 43	52 - 50	57 - 55	61 - 59
120 ≦ RPSmin	43	50	55	59

(g) Heating overload protective control

(i) Indoor fan speed

1) Operating conditions

When the outdoor air temperature (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 (TH2) is lower than 16°C.

(ii) Outdoor unit side

1) Operating conditions

When the outdoor air temperature (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 (TH2) is lower than 11°C.

(h) Heating low outdoor temperature protective control

(i) Operating conditions

When the outdoor air temperature (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 model SRK50, 60.

(iii) Reset conditions

- When either of the following condition is satisfied.
- 1) The outdooe air temperature (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 sensor (TH3) mounted on the discharge pipe.
 - (Example) Fuzzy



- 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 com-mand speed is reached.
 - (4) Lower limit speed

Model	tem	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 minute 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 (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.

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

• Value of A

- a) Outdoor heat exchanger temperature (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 (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 (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 (TH2) is 25°C or higher.
- b) The compressor speed is 0 rps.

(ii) Heating

1) Operating conditions

When the outdoor air temperature (TH2) is $-2^{\circ}C$ (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 (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	$40 \leq N \text{ (TH2} \geq 0^{\circ}\text{C})$ $60 \leq N \text{ (TH2} < 0^{\circ}\text{C})$	$0 \leq Th1 \leq 40$	Th2 <th1+6< td=""></th1+6<>

Note (1) Except that the fan speed is HI in heating operation and silent mode control.

(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 connectors, take hold of the connector housing and do not pull on the lead wires.

(2) Items to check before troubleshooting

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

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

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

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

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



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



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

(5) Self-diagnosis table

When this air-conditioner performs an emergency stop, the reason why the emergency stop occurred is displayed by the flashing of display lights. If the air-conditioner is operated using the remote control 3 minutes or more after the emergency stop, the trouble display stops and the air-conditioner resumes operation. $^{(1)}$

Indoor unit o	display panel	Wired ⁽²⁾ remote control	Description	Cause	Display (flashing) condition
light	light	display			
1-time flash	ON	_	Heat exchanger sensor 1 error	 Broken heat exchanger sensor 1 wire, poor connector connection Indoor 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 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 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 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 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 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 PCB	When there is no signal between the indoor PCB and outdoor PCB for 10 seconds or longer (when the power is turned on), or when there is no signal for 7 minute 35 seconds or longer (during operation) (The compressor is stopped).
ON	7-time flash	E 48	Outdoor fan motor error	Defective fan motor, poor connector connection	When the outdoor unit's fan motor speed continues for 30 seconds or longer at 75 min ⁻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 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 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 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 PCB is faulty. (The communications circuit is faulty.)
Stays OFF	Keeps flashing	_	Limit switch error	 Defective limit switch Defective suction panel set Defective indoor contro 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.

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

(a) Explanation of terms

(b) Service mode display procedure



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

flashes.)



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

(i) Self-diagnosis data

What are self-diagnosis data?

These are control data (reasons for stops, temperature at each sensor, wireless remote control information) from the time when there were error displays (abnormal stops) in the indoor unit in the past.

Data from up to 5 previous occasions are stored in memory. Data older than the 5th previous occasion are erased. The temperature setting indicates how many occasions previous to the present setting the error display data are and the operation mode and fan speed mode data show the type of data.

Wireless remote control setting		Contents of output data	
Operation mode	Fan speed mode	Contents of output data	
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.	
	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	
Temperature setting	the error display data are from.	
21°C	1 time previous (previous time)	
22°C	2 times previous	
23°C	3 times previous	
24°C	4 times previous	
25°C	5 times previous	

Only for indoor heat exchanger sensor 2

Wireless remote control setting	Indicates the number of
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		ol 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

(ii) Stop data

Wireless remote control setting		ol setting		
Operation mode	Fan speed mode	Temperature setting	Displayed data	
		21°C	Displays the reason for the stop (stop code) the previous time when the air-conditioner was stopped by protective stop control.	
		22°C	Displays the reason for the stop (stop code) 2 times previous when the air-conditioner was stopped by protective stop control.	
	LO	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 fla	shes when in						
RUN light (10's digit)	e mode TIMER light (1's digit)	Stop coad 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 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 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 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 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 PCB is faulty.	-55°C or lower is detected for 5 seconds continuously 3 times within 40 minutes after intial 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 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 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 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 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 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 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 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 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 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 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 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.)



(ii) Fan speed mode

(d) Operation mode, fan speed mode information tables

(i) Operation mode

Display pattern when in service mode	Operation mode				
RUN light (10's digit)	abnormal stop				
—	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				
TIMER light (1's digit)	there is an abnormal stop				
-	AUTO				
2-time flash	HI				
3-time flash	MED				
4-time flash	LO				
5-time flash	ULO				
6-time flash	HI POWER				
7-time flash	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
RUN lig (10's di Buzzer sound	TIMER light (1's digit) ht git)	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
	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 (does not sound)	4	40	41	42	43	44	45	46	47	48	49
	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

										Ur	nit: °C
RUN lig (10's di Buzzer sound	TIMER light (1's digit) ght git)	0	1	2	3	4	5	6	7	8	9
	3	-60	-62	-64							
Yes	2	-40	-42	-44	-46	-48	-50	-52	-54	-56	-58
(sounds for 0.1 second)	1	-20	-22	-24	-26	-28	-30	-32	-34	-36	-38
	0		-2	-4	-6	-8	-10	-12	-14	-16	-18
	0	0	2	4	6	8	10	12	14	16	18
	1	20	22	24	26	28	30	32	34	36	38
	2	40	42	44	46	48	50	52	54	56	58
No (decent cound)	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

Inter of prioring interval Image: second prioring interval Diple status Windex sumplial	Customer			Model					
Machine nerve Image: content of segments of second or periods occasion. Deploy reals <	Date of inv	estigation							
Control Under service constructing Diply realistic Diply r	Machine na	ame							
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27 Stop code on seventh previous occasion. Image: Constraint previous occasion. 28 Stop code on eighth previous occasion. Image: Constraint previous occasion. 29 Stop code on ninth previous occasion. Image: Constraint previous occasion. 30 Stop code on tenth previous occasion. Image: Constraint previous occasion. Judgment Examiner	26	Cooling	oling LO Stop code on fifth previous occasion. Stop code on sixth previous occasion. Stop code on seventh previous occasion.						
28 Stop code on eighth previous occasion. Image: Constraint previous occasion. 29 Stop code on ninth previous occasion. Image: Constraint previous occasion. 30 Stop code on tenth previous occasion. Image: Constraint previous occasion. Judgment Examiner	27	1							
29 Stop code on lenth previous occasion. 30 Stop code on tenth previous occasion. Judgment Examiner	28	1		Stop code on eighth previous occasion					
30 Stop code on tenth previous occasion. Examiner Judgment Examiner	2.9	1		Stop code on ninth previous occasion					
Judgment Examiner	30	1		Stop code on tenth previous occasion					
Remarks	Judgment		1			1	1	1	Examiner
	Remarks								<u> </u>

Note (1) In the case of indoor heat exchanger sensor 2, match from 26 to 30 the temperature setting of wireless remote control. (Refer to page 55)

(7) Inspection procedures corresponding to detail of trouble









Outdoor fan motor error





'17 • SRK-T-203



Humidity sensor

Humidity sensor assembly

~~~~

element Connector (CNF)

1

0 2 c

## (8) Phenomenon observed after shortcircuit, wire breakage on sensor

# (a) Indoor unit

| Sanaar           | Operation                                                              | Pheno                                                            | menon                                                                        |  |  |
|------------------|------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------------|--|--|
| mode             |                                                                        | Shortcircuit                                                     | Disconnected wire                                                            |  |  |
| Room temperature | <b>Cooling</b> Release of continuous compressor operation command.     |                                                                  | Continuous compressor operation command is not released.                     |  |  |
| sensor           | ensor Heating Continuous compressor operation command is not released. |                                                                  | Release of continuous compressor operation command.                          |  |  |
| Heat exchanger   | 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)                                                   |  |  |
| Humidity concor  | Cooling                                                                | Refer to the table below.                                        | Refer to the table below.                                                    |  |  |
| numially sensor  | Heating                                                                | Normal system operation is possible.                             |                                                                              |  |  |

# Humidity sensor operation

|                  | Failure mode                 | Control input circuit reading | Air-conditioning system operation      |
|------------------|------------------------------|-------------------------------|----------------------------------------|
| cted             | ① Disconnected wire          |                               |                                        |
| onne<br>wire     | ② Disconnected wire          | Humidity reading is 0%        | Anti-condensation control is not done. |
| Disc             | 12 Disconnected wire         |                               |                                        |
| Short<br>circuit | 1) and 2) are shot 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 | Pheno                                                                                                                              | omenon                                                        |
|--------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| Sensor                   | mode      | Shortcircuit                                                                                                                       | Disconnected wire                                             |
| Heat exchanger           | Cooling   | Compressor stop.                                                                                                                   | Compressor stop.                                              |
| sensor Heating           |           | Defrosting is not performed.                                                                                                       | Defrosting is performed for 10 minutes at approx. 35 minutes. |
| Ourdoor air              | Cooling   | The compressor cannot pick up its speed owing to the current safe so that the designed capacity is not achieved.                   | Compressor stop.                                              |
| temperature sensor       | Heating   | The compressor cannot pick up its speed owing to the heating<br>overload protection so that the designed capacity is not achieved. | Defrosting is performed for 10 minutes at approx. 35 minutes. |
| Discharge pipe<br>sensor | All modes | Compressor overload protection is disabled.<br>(Can be operated.)                                                                  | Compressor stop.                                              |

# (9) Checking the indoor electrical equipment

# (a) Indoor PCB check procedure





# (b) Indoor unit fan motor check procedure

This is a diagnostic procedure for determining if the indoor unit's fan motor or the indoor PCB is broken down.

# 1) Indoor 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 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 PCB has failed and the fan motor is normal.



# 2) Fan motor resistance check

| Measuring point           | Resistance when normal  |
|---------------------------|-------------------------|
| ① - ③ (Red - Black)       | 20 M $\Omega$ or higher |
| (4) - (3) (White - Black) | 20 k $\Omega$ or higher |

- Notes (1) Remove the fan motor and measure it without power connected to it. (2) If the measured value is below the value when the motor is normal, it means
  - (2) If the measured value is below the value when the motor is normal, it means that the fan motor is faulty.

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



Simplified check method of wireless remote control It is normal if the signal transmission section of the wireless remote control emits a whitish light at each transmission on the monitor of digital camera.

(11) Inspection procedure for blown fuse on the indoor and outdoor PCB



# (12) Outdoor unit inspection points Models SRC20ZSX-S, 25ZSX-S, 35ZSX-S

# Check point of outdoor unit



# Models SRC50ZSX-S, 60ZSX-S Check point of outdoor unit


### (a) Inspection of electronic expansion valve

Electronic expansion valve operates for approx. 10 seconds after the power on, in order to determine its aperture. Check the operating sound and voltage during the period of time. (Voltage cannot be checked during operation in which only the aperture change occurs.)

(i) If it is heard the sound of operating electronic expansion valve, it is almost normal.

(ii) If the operating sound is not heard, check the output voltage.



Approx. DC5V is detected for 10 seconds after the power on.

(iii) If voltage is detected, the outdoor 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 unit fan motor check procedure

• When the outdoor unit fan motor error is detected, diagnose which of the outdoor unit fan motor or outdoor PCB is defective.

- Diagnose this only after confirming that the indoor unit is normal.
- (i) Outdoor PCB output check
- 1) Turn off the power.
- 2) Disconnect the outdoor unit 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 PCB is normal but the fan motor is defective.

If the voltage is not detected, the outdoor PCB is defective but the fan motor is normal.

Note (1) The voltage is output 3 times repeatedly. If it is not detected, the indoor unit displays the error message.



| (ii | ) | Fan | motor | resistance | check |
|-----|---|-----|-------|------------|-------|
|-----|---|-----|-------|------------|-------|

| Measuring point      | Resistance when normal  |
|----------------------|-------------------------|
| 6 - 4 (Red - Blue)   | 20 M $\Omega$ or higher |
| ③ - ④ (Brown - Blue) | 20 k $\Omega$ or higher |

Notes (1) Remove the fan motor and measure it without power connected to it.

(2) If the measured value is below the value when the motor is normal, it means that the fan motor is faulty.

# 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                |                                        |                                                          | [Removing the front panel]<br>1.Remove the screw ×3 (circled in the<br>illustration) for the front panel.                                                                                            |
|---|-----------------------------|----------------------------------------|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | front panel                 | Top of un                              |                                                          | <ul><li>2.Press the tab ×4 (circled in the illustration) at the top to unhook them from the base.</li><li>3.Holding both sides of the front panel, pull it forward to remove it.</li></ul>           |
|   | Rer                         | Right side of         Earth wire screw | unit<br>Control box screw                                | <ol> <li>Remove the earth wire screw ×2<br/>(circled in the illustration).</li> <li>Remove the screw ×3 (circled in the<br/>illustration) for the control box.</li> </ol>                            |
| 7 | noving the control box ASSY | CNU (WH)                               | CNL (BK)<br>CNZ (RD)<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>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>cover<br>CNE (BK)<br>CNE (BK)<br>CNE (BK)<br>CNE (BK)<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>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         Image: Constraint of the second se                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <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]                                                                                                                                                                                                                                               |
|----|----------------|------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10 |                | Fan motor  | ASSY       | 1.Remove the screw ×3 (circled in the illustration) for the fan motor ASSY.                                                                                                                                                                                                 |
|    | Removing the f |            |            | <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> |
| 1  | an motor       | Left side  | Right side | [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 (RC-E5)

Read together with indoor unit's installation manual.





6 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

# PJA012D730

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)

Wiring route is as shown in the right diagram depending on the pulling out direction.



The wiring inside the remote control case should be within  $0.3 \text{mm}^2$  (recommended) to  $0.5 \text{mm}^2$ . 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 | <b>`</b>               |
|-----------------------------|-------------------------------|------------------------|
| X wiring : 215mm            | X wiring : 170mm              | The peeling-off length |
| Y wiring : 195mm            | Y wiring : 190mm              | of sheath              |

- Install the upper case as before so as not to catch up the remote control cord, and tighten with the screws.
- In case of exposing cord, fix the cord on the wall with cord clamp so as not to slack.

#### Installation and wiring of remote control

- ① Wiring of remote control should use 0.3mm<sup>2</sup> × 2 core wires or cables. (on-site configuration)
- 2 Maximum prolongation of remote control wiring is 600 m.

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

But, wiring in the remote control case should be under 0.5mm<sup>2</sup>. Change the wire size outside of the case according to wire connecting. Waterproof treatment is necessary at the wire connecting section. Be careful about contact failure.

| 100 - 200m ······ | $\cdots 0.5$ mm <sup>2</sup> $\times$ 2 cores |
|-------------------|-----------------------------------------------|
| Under 300m        | ·····0.75mm <sup>2</sup> × 2 cores            |
| Under 400m        | 1.25mm <sup>2</sup> × 2 cores                 |
| Under 600m        | $\dots 2.0$ mm <sup>2</sup> $\times$ 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 thermistor 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 : " | ©∜AIT©> | "M |
|---------------------------|---------|----|
| Slave remote control : "  | ®₩AIT®  | "S |

At the same time, a mark or a number will be displayed for two seconds first.

This is the software's administration number of the remote control, not an error cord.



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.

**INSPECT I/U** 

#### 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 (1) 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  $\blacksquare$  button once, and change to the "TEMP RANGE  $\blacktriangle$  " indication.
- 3. Press O (SET) button, and enter the temperature range setting mode.
- 4. Select "UPPER LIMIT ▼" or "LOWER LIMIT ▲" by using 📐 💌 button.
- 5. Press <u>(SET)</u> button to fix.
- 6. When "UPPER LIMIT ▼ " is selected (valid during heating)
- ① Indication: "  $\bigcirc \lor \land$  SET UP"  $\rightarrow$  "UPPER 30°C  $\lor$  "
  - $\odot$  Select the upper limit value with temperature setting button  $\bigtriangledown$  . Indication example: "UPPER 26°C  $\lor \land$ " (blinking)

③ Press O(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 V".

- 7. When "LOWER LIMIT **\**" is selected (valid during cooling, dry, fan, automatic)
  - ① Indication: " $b \lor \land$  SET UP" → "LOWER 18°C  $\land$ "
  - O Select the lower limit value with temperature setting button  $\fbox{O}$ . Indication example: "LOWER 24°C  $\lor \land$ " (blinking)
  - ③ Press <u>(SET)</u> 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 **V**".
- 8. Press ON/OFF button to finish.



| the functional setting<br>The initial function setting for ty<br>control and indoor unit are con<br>As long as they are used in a t<br>If you would like to change the<br>The procedure of functional se<br>Elow of functions settin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ypical using is performed<br>nected.<br>ypical manner, there will<br>initial setting marked " (<br>tting is shown as the follo | l auton<br>be no<br>) ", se<br>owing | atically by the indoor unit connected, when remote<br>need to change the initial settings.<br>your desired setting as for the selected item.<br>lagram.                                                                                                                                             |              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| Start : Stop air-conditioner and<br>"(",")" (MODE) button<br>inalize : Press "(")" (SET) b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>9]</b><br>press " <u>()</u> " (SET) and<br>ns at the same time for over<br>utton.                                           | d<br>er three                        | seconds. Record and keep the setting                                                                                                                                                                                                                                                                |              |
| Reset : Press " (RESE I<br>Select : Press ▲ ▼ button.<br>End : Press ON/OFF button.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ) button.                                                                                                                      |                                      | Consult the technical data etc. for each control details                                                                                                                                                                                                                                            |              |
| In possible to finish above setting is<br>or infinished change of setting is<br>in initial settings<br>in initial settings<br>in the initial settings<br>in the initial settings<br>in the initial setting is<br>in the initial setting is<br>in the initial setting is<br>in the initial setting is<br>in the initial setting is<br>initial setting is<br>ini | unavailable.                                                                                                                   | at the                               | op air-conditioner and press<br>(SET) + (조)-(MODE) buttons<br>ame time for over three seconds                                                                                                                                                                                                       |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                |                                      |                                                                                                                                                                                                                                                                                                     | To next page |
| Remote control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | function)                                                                                                                      |                                      |                                                                                                                                                                                                                                                                                                     |              |
| Function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                |                                      |                                                                                                                                                                                                                                                                                                     |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Setting                                                                                                                        | 0                                    | Validate setting of ESP:External Static Pressure<br>Invalidate setting of ESP                                                                                                                                                                                                                       |              |
| 02   AUTU KUN SET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | AUTO RUN ON                                                                                                                    | *                                    |                                                                                                                                                                                                                                                                                                     |              |
| 03 IMEA TEMP SW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | AUTO RUN OFF                                                                                                                   | *                                    | Automatical operation is impossible                                                                                                                                                                                                                                                                 |              |
| 04 📴 MODE SW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                |                                      | Temperature setting button is not working                                                                                                                                                                                                                                                           |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6 CE INVALID                                                                                                                   |                                      | Mode button is not working                                                                                                                                                                                                                                                                          |              |
| 05 TO UNZUFF SW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 8-0 WALID                                                                                                                      | 0                                    |                                                                                                                                                                                                                                                                                                     |              |
| 06 SET FAN SPEED SW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                |                                      | On/Off button is not working                                                                                                                                                                                                                                                                        |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 8년 WALID<br>8년 INWALID                                                                                                         | *                                    | Fan speed button is not working                                                                                                                                                                                                                                                                     |              |
| 07 C LOUVER SW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <br> ੴ⊠ \\ALLO                                                                                                                 | *                                    |                                                                                                                                                                                                                                                                                                     |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                |                                      |                                                                                                                                                                                                                                                                                                     |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ்<br>தூல் VALID<br>தில் INVALID                                                                                                | 0                                    | Timer button is not working                                                                                                                                                                                                                                                                         |              |
| * 09 🖾 SENSOR SET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                |                                      |                                                                                                                                                                                                                                                                                                     |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ESENSOR ON                                                                                                                     | 0                                    | Remote thermistor is not working.<br>Remote thermistor is working.                                                                                                                                                                                                                                  |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | EISENSOR +3.0%<br>EISENSOR +2.0%                                                                                               | -                                    | Remote thermistor is working, and to be set for producing +3.0°C increase in temperature.<br>Remote thermistor is working, and to be set for producing +2.0°C increase in temperature.                                                                                                              |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ESENSOR + 1.0%                                                                                                                 |                                      | Remote thermistor is working, and to be set for producing +1.0°C increase in temperature.                                                                                                                                                                                                           |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ESENSOR -2.00                                                                                                                  |                                      | Remote thermistor is working, and to be set for producing -1.0 °C increase in temperature.                                                                                                                                                                                                          |              |
| 10 AUTO RESTART                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                | 1                                    | Hemote thermistor is working, and to be set for producing -3.0°C increase in temperature.                                                                                                                                                                                                           |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | VALID                                                                                                                          | 0                                    |                                                                                                                                                                                                                                                                                                     |              |
| * <u>11   VENT LINK SET</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | IND VENT                                                                                                                       |                                      |                                                                                                                                                                                                                                                                                                     |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | VENT LINK                                                                                                                      | T                                    | In case of Single split series, by connecting ventilation device to CnT of the<br>indoor printed circuit board (in case of VRF series, by connecting it to CnT of the<br>indoor printed circuit board), the operation of ventilation device is linked with the<br>operation of indoor unit          |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | NO VENT LINK                                                                                                                   |                                      | In case of Single split series, by connecting ventilation device to CnT of the indoor printed<br>circuit board (in case of VMF series, by connecting it to CnT of the indoor printed circuit board),<br>www.execution.com/circuit board in circuit board and and the indoor printed circuit board). |              |
| 12 TEMP RANGE SET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <br>                                                                                                                           | 1-                                   | you can operate race in the remaination of the indication of set temporature.                                                                                                                                                                                                                       |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | INON CHANGE                                                                                                                    | 0                                    | will vary following the control.                                                                                                                                                                                                                                                                    |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1                                                                                                                              |                                      | will not vary following the control, and keep the set temperature.                                                                                                                                                                                                                                  |              |
| 13 11/0 FMM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                | *                                    | Airflow of fan becomes of 🍋 - 🍋 🛈 or the four speed of 🍋 - 🏍 - 🏍 - 🏎 - 🗞 - 🕮 -                                                                                                                                                                                                                      |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | HI-LU<br>HI-MID                                                                                                                | *                                    | Airtiow of tan becomes of <b>*a1</b> .<br>Airflow of fan becomes of <b>*a1</b> .                                                                                                                                                                                                                    |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1 FAN SPEED                                                                                                                    | *                                    | Airflow of fan is fixed at one speed.                                                                                                                                                                                                                                                               |              |
| 14   =⊅,⊐ POSITION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4POSITION STOP                                                                                                                 | 0                                    | lf you change the remote control function "14 중규 <b>무ISSITION</b> ",<br>you must change the indoor function "04 중규 <b>무USSITION</b> " accordingly.<br>You can select the louver stop position in the four.                                                                                          |              |
| 15 NODEL TYPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | [REESTOP                                                                                                                       |                                      | The louver can stop at any position.                                                                                                                                                                                                                                                                |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | HEAT PUNP<br>Cooling only                                                                                                      | *                                    |                                                                                                                                                                                                                                                                                                     |              |
| 16 EXTERNAL CONTROL SET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1                                                                                                                              |                                      | ·····                                                                                                                                                                                                                                                                                               |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                | 0                                    | in you input signal into Cn I of the indoor printed circuit board from external, the<br>indoor unit will be operated independently according to the input from external.                                                                                                                            |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | I FUK ALL UNLIS                                                                                                                | _                                    | If you input into CNT of the indoor printed circuit board from external, all units which<br>connect to the same remote control are operated according to the input from external.                                                                                                                   |              |
| 17 ROOM TEMP INDECATION SET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | I INDICATION OFF                                                                                                               |                                      |                                                                                                                                                                                                                                                                                                     |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | INDICATION ON                                                                                                                  | Τ                                    | In normal working indication, indoor unit temperature is indicated instead of airflow.                                                                                                                                                                                                              |              |
| 18 * INDICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                |                                      | Contry are master remote control can De Indicated.                                                                                                                                                                                                                                                  |              |
| 10 N/r 9FT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                |                                      | Heating preparation indication should not be indicated.                                                                                                                                                                                                                                             |              |
| <u>[13.1.07.F9[]</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <br>℃<br> *=                                                                                                                   | 0                                    | Temperature indication is by degree C<br>Temperature indication is by degree F                                                                                                                                                                                                                      | To next page |
| Note (1)*The mark ca                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | nnot use SRK serles.                                                                                                           |                                      | ON/OFF] button<br>(finished)                                                                                                                                                                                                                                                                        |              |

Note 1: The initial setting marked "X" is decided by connected indoor and outdoor unit, and is automatically defined as following table.

| Function No.   | Item          | Default      | Model                                                  |  |
|----------------|---------------|--------------|--------------------------------------------------------|--|
| Remote control | AUTO RUN SET  | AUTO RUN ON  | "Auto-RUN" mode selectable indoor unit.                |  |
| function02     |               | AUTO RUN OFF | Indoor unit without "Auto-RUN" mode                    |  |
| Remote control | ⊠FAN SPEED S₩ | ら図 VALID     | Indoor unit with two or three step of air flow setting |  |
| function06     |               | டு 📧 INVALID | Indoor unit with only one of air flow setting          |  |
| Remote control | EZI LOUVER SW | 6 🖾 VALID    | Indoor unit with automatically swing louver            |  |
| function07     |               | er invalid   | Indoor unit without automatically swing louver         |  |
| Remote control | 1./U FAN      | HI-1180-LO   | Indoor unit with three step of air flow setting        |  |
| function13     |               | HI-10        | Indoor unit with two step of air flow setting          |  |
|                |               | HT-HED       |                                                        |  |
|                |               | 1 FAIN SPEED | Indoor unit with only one of air flow setting          |  |
| Remote control | NODEL TYPE    | heat pump    | Heat pump unit                                         |  |
| function15     |               | COOLING ONLY | Exclusive cooling unit                                 |  |

Note 3: As for plural indoor unit, set indoor functions to each master and slave indoor unit. But only master indoor unit is received the setting change of indoor unit function "05 EXTERNAL INPUT" and "06 PERMISSION / PROHIBISHION".

| m previous page                                        |                                     |                               |          | Note2: Fan :                             | setting of "HIC                 | GH SPEED"                                                    |                                      |                  |                                |
|--------------------------------------------------------|-------------------------------------|-------------------------------|----------|------------------------------------------|---------------------------------|--------------------------------------------------------------|--------------------------------------|------------------|--------------------------------|
| Indoor unit No.                                        | are indicated only when             | 1                             |          | Fan                                      | tap                             | Indoor unit air flow setting                                 |                                      |                  |                                |
| (Indoor unit function) I/U FUNCTION ▲ plural indoor ur | nits are connected.                 |                               |          |                                          |                                 | Radi - Rad - Rad - Rad - Rad - Rad - Rad - Rad - Rad - Rad - |                                      |                  |                                |
| 1/⊔000 ▲   * 02                                        | Function<br>2 FAN SPEED SET         | setting                       |          | FAN                                      | STANDARD                        | UH - Hi - Me - Lo                                            | Hi - Me - Lo                         | Hi - Lo          | Hi - Me                        |
| <u>I/U001</u> ≠<br>I/U002 ≠                            |                                     | STANDARD<br>High speed 1      | *        | SET                                      | HIGH<br>SPEED1.2                | UH - UH - Hi - Me                                            | UH - Hi - Me                         | UH - Me          | UH - Hi                        |
| 1/1003 ¢                                               | DIFFET FED STEM SET                 | HIGH SPEED 2                  |          | Initial function                         | on setting of s                 | ome indoor unit is "HIGH                                     | SPEED".                              | 1                | 1                              |
| 1/0004141 *0.0                                         |                                     | INDICATION OFF                |          | 4 speed is n                             | ot able to be                   | set with wireless remote o                                   | control.                             |                  |                                |
|                                                        |                                     | TYPE 1                        | 0        | The filter sign is                       | s indicated af                  | ter running for 180 hours.                                   |                                      |                  |                                |
| To set other indoor unit, press                        |                                     | TYPE2                         |          | The filter sign is<br>The filter sign is | s indicated af                  | ter running for 600 hours.                                   |                                      |                  |                                |
| AIRCON NO. button, which                               |                                     | TYPE 4                        |          | The filter sign is                       | s indicated at                  | ter running for 1000 hours                                   | s.<br>a. then the indoor ur          | nit will be stop | ped by                         |
| allows you to go back to the indoor                    |                                     |                               |          | compulsion after                         | er 24 hours.                    | J                                                            |                                      |                  |                                |
| unit selection screen                                  | 4   🗞 🖃 POSITION                    | 1                             |          | lf you change t                          | he indoor fun                   | ction "04 🖘 🖓 POSITION                                       | ",                                   |                  |                                |
| (for example: I/U 000 ▲).                              |                                     | ZERNER AND A STOP             |          | you must chan                            | ge the remote                   | control function "14                                         | POSITION " accordi                   | ngly.            |                                |
|                                                        |                                     | FREE STOP                     |          | You can select<br>The louver can         | the louver sti<br>stop at any r | op position in the four.                                     |                                      |                  |                                |
| 05                                                     | 5 EXTERNAL INPUT                    |                               |          | The louver our                           | stop at any p                   | 0000000                                                      |                                      |                  |                                |
|                                                        |                                     | LEVEL INPUT<br>DUI 90 TUDI IT | 0        |                                          |                                 |                                                              |                                      |                  |                                |
| 06                                                     | 6 OPERATION PERMISSION/PEXIMIBITION |                               |          |                                          |                                 |                                                              |                                      |                  |                                |
|                                                        |                                     | INVALID                       | 0        |                                          |                                 |                                                              |                                      |                  |                                |
|                                                        |                                     | VALID                         |          | Permission/pro                           | hibition contr                  | ol of operation will be valid                                | d.                                   |                  |                                |
| * <u>0/</u>                                            |                                     | TINNAL TO                     | $\cap$   |                                          |                                 |                                                              |                                      |                  |                                |
|                                                        |                                     | VALID                         |          | With the VRF s                           | eries, it is us                 | ed to stop all indoor units                                  | connected with the                   | same outdoor     | r unit immedi                  |
|                                                        |                                     |                               |          | When stop sigr                           | nal is inputed                  | from remote on-off termin                                    | al "CNT-6", all indo                 | or units are st  | opped imme                     |
|                                                        |                                     | OFFSET +3.0%                  | -        | To be reset for                          | producing +9                    | 0°C increase in temperat                                     | ure during heating                   |                  |                                |
|                                                        |                                     | OFFSET +2.0%                  |          | To be reset for                          | producing +2                    | 2.0°C increase in temperat                                   | ure during heating.                  |                  |                                |
| * 08                                                   | 3 🔆 SP OFFSET                       | OFFSET +1.0tc                 |          | To be reset for                          | producing +1                    | .0°C increase in temperat                                    | ure during heating.                  |                  |                                |
|                                                        |                                     | NU UFF&ET                     |          |                                          |                                 |                                                              |                                      |                  |                                |
|                                                        |                                     | OFFSET +2.0%                  |          | To be reset pro                          | ducina +2.0°                    | C increase in return air ter                                 | mperature of indoor                  | unit.            |                                |
|                                                        |                                     | OFFSET + 1.5%                 |          | To be reset pro                          | ducing +1.5°                    | C increase in return air ter                                 | mperature of indoor                  | unit.            |                                |
| * <u>09</u>                                            | 9  KETUKN ALK TEMP                  | UH+SEI+I.UC:<br>No necect     |          | To be reset pro                          | ducing +1.0"                    | C increase in return air tei                                 | mperature of indoor                  | unit.            |                                |
|                                                        |                                     | OFFSET - 1.0°c                |          | To be reset pro                          | ducina -1 0°C                   | increase in return air ten                                   | apparature of indoor                 | unit             |                                |
|                                                        |                                     | OFFSET -1.5°c                 |          | To be reset pro                          | ducing -1.5°C                   | C increase in return air ten                                 | nperature of indoor                  | unit.            |                                |
|                                                        |                                     | OFFSET -2.0°c                 |          | To be reset pro                          | ducing -2.0°C                   | C increase in return air ten                                 | nperature of indoor                  | unit.            |                                |
| * 1(                                                   | )   👷 FHN GUN I KUL                 | LOW EAN SPEED                 | 0        | When heating t                           | hermostat is                    | OFF fan sneed is low sne                                     | heed                                 |                  |                                |
|                                                        |                                     |                               |          | When heating t                           | hermostat is                    | OFF, fan speed is set spe                                    | ed.                                  |                  |                                |
|                                                        |                                     | SET HIM SPEED                 |          | 14/h h f 1                               |                                 |                                                              | and the design of the second second  |                  |                                |
|                                                        |                                     | INTERVILITENCE                |          | When heating t                           | hermostat is                    | OFF, fail speed is operate<br>OFF, the fan is stopped.       | ea miermilienily.                    |                  |                                |
|                                                        |                                     |                               |          | When the remo                            | te thermistor                   | is working, "FAN OFF" is<br>the indoor unit's thermist       | set automatically.<br>or is working. |                  |                                |
| * 11                                                   | 1 EROST PREJENTION TEMP             |                               |          | Change of inde                           | or heat exch                    | anger temperature to star                                    | frost prevention co                  | ntrol            |                                |
| *                                                      |                                     | TEMP HIGH                     |          | - ango or muu                            |                                 |                                                              |                                      |                  |                                |
|                                                        |                                     | TEMP LOW                      | 0        |                                          |                                 |                                                              |                                      |                  |                                |
| * 12                                                   | 2 FROST PREVENTION CONTROL          |                               |          | Working only w                           | ith the Single                  | split series.                                                |                                      |                  |                                |
| T T                                                    |                                     | FAN CONTROL ON                | 0        | To control frost                         | prevention, t                   | he indoor fan tap is raiseo                                  | i.                                   |                  |                                |
| 21.6                                                   |                                     | I HIN CONTROL UH              |          |                                          |                                 |                                                              |                                      |                  |                                |
| * 13                                                   |                                     | \$0                           | 0        | Drain pump is r                          | un durina co                    | oling and dry.                                               |                                      |                  |                                |
|                                                        |                                     | &oand⊗                        |          | Drain pump is r                          | un during co                    | oling, dry and heating.                                      |                                      |                  |                                |
|                                                        |                                     | <u>塗らAND淡AND注</u><br>図A ANDご  | $\vdash$ | Drain pump is r                          | un during co                    | oling, dry, heating and fan                                  |                                      |                  |                                |
| * 1/                                                   | 4 🕼 FAN REMAINING                   | \$VHUR                        | Щ        | rain pump is i                           | un uuring co                    | uning, ury and fan.                                          |                                      |                  |                                |
|                                                        |                                     | NO REMAINING                  | 0        | After cooling is                         | stopped, the                    | fan does not perform extr                                    | a operation.                         |                  |                                |
|                                                        |                                     | 0.5 HOLR                      |          | After cooling is                         | stopped, the                    | fan perform extra operati                                    | on for half an hour.                 |                  |                                |
|                                                        |                                     | 6 HOLR                        | $\vdash$ | Atter cooling is                         | stopped, the                    | tan perform extra operation                                  | on for an hour.                      |                  |                                |
| * 1                                                    | 5 🔅 FAN RENAINING                   | v 16581                       |          | Aner cooling is                          | stopped, the                    | ian penorm extra operatio                                    | UT IOT SIX HOURS.                    |                  |                                |
|                                                        |                                     | NO REMAINING                  | 0        | After heating is                         | stopped or h                    | eating thermostat is OFF,                                    | the fan does not pe                  | erform extra o   | peration.                      |
|                                                        |                                     | ULIS HOLIR                    | $\vdash$ | After heating is                         | stopped or h                    | eating thermostat is OFF,                                    | the fan perform ext                  | ra operation fo  | or half an ho                  |
|                                                        |                                     | i∠ nuun<br>6 HOUR             | H        | Aner neating is<br>After heating is      | stopped or h                    | eaung thermostat is OFF,<br>eating thermostat is OFF         | the fan perform ext                  | a operation for  | or two hours.<br>for six hours |
| * 16                                                   | 6 🔅 FAN INTERMITTENCE               |                               |          | , and froundly to                        | stopped of fi                   | sating thombolia is Of I,                                    | and rain perioriti ex                | a oporadoll I    | oix noulo.                     |
| Γ                                                      |                                     | NO REMAINING                  | 0        | During heating                           | in atomast -                    | hosting thermester is OF                                     | E the fee and are the                | ntormittent      | oration for f                  |
|                                                        |                                     | 20winOFF SwinON               |          | uring heating<br>with low fan so         | is stopped of<br>eed after two  | neating thermostat is OF<br>ntv minutes' OFF                 | r, ine tan perform i                 | mermittent op    | eration for th                 |
|                                                        |                                     | suinDFF suinDN                |          | During heating                           | is stopped or                   | heating thermostat is OF                                     | F, the fan perform i                 | ntermittent op   | eration for fiv                |
| * 17                                                   | 7 PRESSURE CONTROL                  |                               |          | widt iow fan sp                          | eeu aiter tivê                  | minutes OFF.                                                 |                                      |                  |                                |
|                                                        |                                     | siandaru<br>Type1             | *        | Connected "OA                            | Processing"                     | type indoor unit. and is a                                   | utomatically defined                 | I.               |                                |
|                                                        |                                     | I                             |          |                                          |                                 | ,,                                                           |                                      |                  |                                |

| How | u to sat function                                                         | Operation message                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Stop air-conditioner and press () (SET) () (MODE)                         | Function description:   Function No.   unction No.  Function No |
|     | buttons at the same time for over three seconds, and the                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|     | "FUNCTION SET <b>v</b> " will be displayed.                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|     |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|     |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|     |                                                                           | H AUTURUN SET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 2.  | Press (SET) button.                                                       | TEMP 00MOFF 7 Finishing button                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 3.  | Make sure which do you want to set, " FUNCTION                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|     | (remote control function) or "I/U FUNCTION ▲" (indoor unit                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|     | tunction).                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 4.  | Press A or V button.                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|     | FUNCTION                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|     |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|     |                                                                           | Indoor unit selection button Previous screen button                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|     |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 5.  | Press O (SET) button.                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|     |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 6.  | [On the occasion of remote control function selection]                    | [On the occasion of indoor unit function selection]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|     | IDATA LOADING" (Indication with blinking)                                 | ① "DATA LOADING" (Blinking for 2 to 23 seconds to read the data)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|     | ↓ ,                                                                       | ○                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|     | Display is changed to "01 🖑 🖾 ESP SET".                                   | Indication is changed to "02 FAN SPEED SET".                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|     | 2 Prope A or V button                                                     | Go to ②.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|     | "No, and function" are indicated by turns on the remote control           | [Note]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|     | function table, then you can select from them.                            | (1) If plural indoor units are connected to a remote control, the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|     | (For example)                                                             | indication is "I/U 000" (blinking) $\leftarrow$ The lowest number of the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|     | Eurotion No.                                                              | indoor unit connected is indicated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|     |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|     |                                                                           | I/U000 🔺                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|     | ③ Press O (SET) button.                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|     | The current setting of selected function is indicated.                    | (2) Press 🗻 or 💌 button.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|     | (for example) "AUTO RUN ON" $\leftarrow$ If "02 AUTO RUN SET" is          | Select the number of the indoor unit you are to set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|     | selected                                                                  | all unites                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|     |                                                                           | (3) Brass (SET) button                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|     | ALTO RUN ON <                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|     |                                                                           | Press  or  button.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|     | Press  or  button.                                                        | "No. and function" are indicated by turns on the indoor unit function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|     | Select the setting.                                                       | table, then you can select from them.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|     | 50                                                                        | (For example)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|     | AUTO RUN ON                                                               | Function No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|     | $\uparrow$                                                                | Frin SPEED SET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|     |                                                                           | 3 Broom () (SET) button                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|     | AUTO RUN OFF                                                              | The current setting of selected function is indicated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|     |                                                                           | (For example) "STANDARD" ← If "02 FAN SPEED SET" is                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|     | Press (SEI)     "SET COMPLETE" will be indicated, and the setting will be | selected.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|     | completed                                                                 | 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|     | Then after "No. and function" indication returns, Set as the              | STANDARD <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|     | same procedure if you want to set continuously ,and if to                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|     | finish, go to 7.                                                          | <ul> <li>④ Press ▲ or ▼ button.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|     | 50                                                                        | Select the setting.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|     | SET COMPLETE                                                              | S Press () (SET) button.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|     |                                                                           | "SET COMPLETE" will be indicated, and the setting will be                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|     |                                                                           | completed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|     |                                                                           | I hen atter "No. and function" indication returns, set as the same                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 7.  | Press ON/OFF button.                                                      | procedure in you want to set continuously , and it to initish, go to 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|     | Setting is finished.                                                      | 02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|     |                                                                           | SET COMPLETE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|     |                                                                           | When plugal indees up to accordent to a second state of the second |
|     |                                                                           | the AIBCON No 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                    | n on the way, but unfinished change of setting is                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|     | unavailable.                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|     | During setting, if you press (// (RESET) butter                           | on, you return to the previous screen.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|     | <ul> <li>Setting is memorized in the control and it is saved</li> </ul>   | independently of power failure.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|     |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|     | [How to check the current setting ]                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|     | When you select from "No and function" and press set button h             | by the previous operation the "Setting" displayed first is the current                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|     | setting.                                                                  | are previous operation, the obtaing displayed list is the fullent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|     | (But, if you select "ALL UNIT <b>v</b> ", the setting of the lowest num   | ber indoor unit is displayed.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|     | · •                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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

\*\* Factory setting

## RKZ012A088B



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





## Installation check items

□ Are the connection cables connected securely to the terminal blocks and connectors?

□ Are the thickness and length of the connection cables conformed with the standard?







# (3) 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<u>A</u>" and "Caution<u>A</u>". The "Warning<u>A</u>" group includes items that may lead to serious injury or death if not observed. The items included in the "Caution<u>A</u>" group also may lead to serious results under certain conditions. Both groups are crucial for safety installation. Read and understand them carefully. • After installation, conduct the test operation of the device to check for any abnormalities. Describe how to operate the device to the customer following the installation instruc-tion manual. Instruct the customer to keep this installation instruction for future reference.

#### MARING

- This device should be installed by the dealer where you purchase the device or a licensed professional shop. If the device is incorrectly installed by the customer, it may result in electric shock or fire.
- Install the device carefully following the installation instruction. If the device is incorrectly installed, it may result in electric shock or fire.
- Use the accessory parts and specified parts for installation. If any parts that do not match the specifications are used, it may result in electric shock or fire. • A person with the electrical service certification should conduct the service
- based on the "Technical standards for electrical facilities", "Electrical Wiring Code", and the installation instruction. If the work is done incorrectly, it may result in electric shock or fire.
- Wiring should be securely connected using the specified types of wire. No external force on the wire should be applied to any terminals. If a secure connection is not achieved, it may result in electric shock or fire

#### 1 Application

Indoor-to-outdoor three core communication specification type 3 (since October 2007)

#### 2 Accessories



### 3 Function

Allowing the center control SL1N-E, SL2N-E, and SL4-AE/BE to control and monitor the commercial air-conditioning unit.

#### 4 Control switching

Settings can be changed by the switch SW3 on the SL E board as in the following.

| Switch | Symbol | Switch        | Remarks                                                                       |
|--------|--------|---------------|-------------------------------------------------------------------------------|
|        | 1      | ON            | Master                                                                        |
|        | '      | OFF (default) | Slave                                                                         |
|        |        | ON            | Fixed previous protocol                                                       |
|        | 2      | OFF (default) | Automatic adjustment of Superlink protocol                                    |
| SW3    | 2      | ON            | Indicates the forced operation stop when abnormality has occurred.            |
|        | 3      | OFF (default) | Indicates the status of running/stop as it is, when abnormality has occurred. |
|        |        | ON            | The hundredth address activated "1"                                           |
|        | 4      | OFF (default) | The hundredth address activated "0"                                           |

#### 

- Provide ground connection. The ground line should never be connected to the gas supply piping, the water supply piping, the lightning conductor rod, nor the telephone ground. If the
- grounding is improper, it may result in electric shock.Do not install the device in the following locations. 1.Where there is mist/spray of oil or steam such as kitchens.
  - 2.Where there is corrosive gases such as sulfurous acid gas. 3.Where there is a device generating electromagnetic waves. These may interfere with the control system resulting in the device becoming uncontrollable.
  - 4.Where flammable volatile materials such as paint thinner and gasoline may exist or where they are handled. This may cause a fire.

## 5 Connection Outline

Note for setting the address

- Set the address between 00 and 47 for the previous Superlink connection
- and between 000 and 127 for the new Superlink connection. (\*1)
- Do not set the address overlapping with those of the other devices in the
- network. (The default is 000)



Whether the actual link is either the new Superlink or the previous Super-(\*1) link 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 - 1.25mm²     | 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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PJZ012D029F

- (1) 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 control 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.
 Wiring should go through the provided grommet since then through the wiring to the hole on the Metal box.

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 , and grounding for the signal line to Ground 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°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         | Green    | Inspection mode                                                                                                                                                                                                                                                             | Display on the<br>integrated network<br>control device |
|------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Off              | Flashing | Normal communication                                                                                                                                                                                                                                                        |                                                        |
| Off              | Off      | Disconnection in the remote control<br>communication line (X or Y)     Short-circuit in the remote control<br>communication line (between X and Y)     Faulty indoor unit remote control power     Faulty remote control communication circuit     Faulty CPU on SL E board | No<br>corresponding<br>unit number                     |
| One flash        | Flashing | <ul> <li>Disconnection in the Superlink signal<br/>line (A or B)</li> <li>Short-circuit in the Superlink signal<br/>line (between A and B)</li> <li>Faulty Superlink signal circuit</li> </ul>                                                                              |                                                        |
| Two<br>flashes   | Flashing | Faulty address setting for the SL E<br>board<br>(Set up the address for<br>previous SL E board : more than 48<br>new SL E board : more than 128)                                                                                                                            |                                                        |
| Three<br>flashes | Flashing | <ul> <li>SL E board parent not set up when used<br/>without a remote control</li> <li>Faulty remote control communication circuit</li> </ul>                                                                                                                                | E1                                                     |
| Four<br>flashes  | Flashing | <ul> <li>Address overlapping for the SL E board<br/>and the Superlink network connected<br/>indoor unit</li> </ul>                                                                                                                                                          | E2                                                     |
| Off              | Flashing | Number of connected devices exceeds the<br>specification for the multiple indoor unit control                                                                                                                                                                               | E10                                                    |

PJZ012D029C

# **13. TECHNICAL INFORMATION**

## Model SRK20ZSX-S

| Information to identify the model(s) to whi | ich the information relates to:      | If function includes heating: Indicate the heat               | ating season the            |  |  |
|---------------------------------------------|--------------------------------------|---------------------------------------------------------------|-----------------------------|--|--|
| Indoor unit model name SRK20ZSX-S           |                                      | information relates to. Indicated values should relate to one |                             |  |  |
| Outdoor unit model name                     | SRC20ZSX-S                           | heating season at a time. Include at least the                | 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 200 kW                      | Seasonal efficiency and energy efficiency c                   | SEER 950 4+++               |  |  |
| heating / Average                           | Pdesignh 2.70 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    | e Tdesignh                           | Back up heating capacity at outdoor temper                    | ature Tdesignh              |  |  |
| heating / Average (-10 C)                   | Pdn 2.70 KW                          | heating / Average (-10 C)                                     | elbu <b>0</b> kW            |  |  |
| heating / Colder (-22°C)                    | Pdh - kW                             | heating / Colder (-22°C)                                      | elbu - kW                   |  |  |
|                                             |                                      |                                                               |                             |  |  |
| Declared capacity for cooling, at indoor te | emperature 27(19)°C and              | Declared energy efficiency ratio, at indoor to                | emperature 27(19)°C and     |  |  |
| outdoor temperature Tj                      |                                      | outdoor temperature Tj                                        |                             |  |  |
| Tj=35°C                                     | Pdc 2.00 kW                          | Tj=35°C                                                       | EERd 6.25 -                 |  |  |
|                                             | Pdc 1.47 KW                          | IJ=30°C                                                       | EERd 9.23 -                 |  |  |
| Tj=20°C                                     | Pdc 1.15 kW                          | Ti=20°C                                                       | FERd 17.80 -                |  |  |
| ,                                           |                                      |                                                               |                             |  |  |
| Declared capacity for heating / Average s   | eason, at indoor                     | Declared coefficient of performance / Avera                   | ge season, at indoor        |  |  |
| temperature 20°C and outdoor temperature    | re Tj                                | temperature 20°C and outdoor temperature                      | Tj                          |  |  |
| IJ=-7°C                                     | Pdh 2.39 kW                          | 1j=-7°C                                                       | COPd 3.15                   |  |  |
| Ti=Z°C                                      | Pan 1.45 KW                          | 1]=2 C<br>  Ti=7℃                                             | COPd <b>5.30</b>            |  |  |
| Tj=7 ℃<br>Ti=12℃                            | Pdh 0.95 kW                          | Ti=12°C                                                       | COPd 840 -                  |  |  |
| Ti=bivalent temperature                     | Pdh <b>2.70</b> kW                   | Ti=bivalent temperature                                       | COPd 2.70 -                 |  |  |
| Tj=operating limit                          | Pdh <b>2.10</b> kW                   | Tj=operating limit                                            | COPd <b>2.20</b> -          |  |  |
|                                             | · ·                                  |                                                               | · · ·                       |  |  |
| Declared capacity for heating / Warmer se   | eason, at indoor                     | Declared coefficient of performance / Warm                    | er season, at indoor        |  |  |
| temperature 20°C and outdoor temperature    | relj<br>Ddb <b>270</b> kW            | temperature 20°C and outdoor temperature                      |                             |  |  |
| Tj=2 ℃<br>Ti=7℃                             | Pdh 2.38 kW                          | Ti=7°C                                                        | COPd 600 -                  |  |  |
| Ti=12°C                                     | Pdh <b>1.06</b> kW                   | Ti=12°C                                                       | COPd 8.38 -                 |  |  |
| Tj=bivalent temperature                     | Pdh <b>3.70</b> kW                   | Tj=bivalent temperature                                       | COPd <b>3.40</b> -          |  |  |
| Tj=operating limit                          | Pdh 2.10 kW                          | Tj=operating limit                                            | COPd 2.20 -                 |  |  |
|                                             |                                      |                                                               |                             |  |  |
| Declared capacity for heating / Colder sea  | ason, at indoor                      | Declared coefficient of performance / Colde                   | r season, at indoor         |  |  |
| Ti=-7°C                                     | Pdb _ kW/                            | Ti= $-7^{\circ}$ C                                            | COPd                        |  |  |
| Ti=2°C                                      | Pdh - kW                             | Ti=2°C                                                        | COPd                        |  |  |
| Tj=7°C                                      | Pdh - kW                             | Tj=7°C                                                        | COPd                        |  |  |
| Tj=12°C                                     | Pdh - kW                             | Tj=12°C                                                       | COPd                        |  |  |
| Tj=bivalent temperature                     | Pdh - kW                             | Tj=bivalent temperature                                       | COPd                        |  |  |
| Tj=operating limit                          | Pdh - kW                             | Tj=operating limit                                            | COPd                        |  |  |
| Tj=-15°C                                    | Pdn - KVV                            | Ij=-15 <sup>-</sup> C                                         | COPd                        |  |  |
| Bivalent temperature                        |                                      | Operating limit temperature                                   |                             |  |  |
| heating / Average                           | Tbiv -10 °C                          | heating / Average                                             | Tol -20 °C                  |  |  |
| heating / Warmer                            | Tbiv 2 °C                            | heating / Warmer                                              | Tol -20 °C                  |  |  |
| heating / Colder                            | Tbiv - °C                            | heating / Colder                                              | Tol - °C                    |  |  |
| Cycling interval cancelty                   |                                      | Cycling interval efficiency                                   |                             |  |  |
| for cooling                                 | Povec - kW                           | for cooling                                                   | FERcyc -                    |  |  |
| for heating                                 | Pcvch - kW                           | for heating                                                   | COPcvc                      |  |  |
|                                             |                                      | · · · · · · · · · · · · · · · · · · ·                         | ····                        |  |  |
| Degradation coefficient                     |                                      | Degradation coefficient                                       |                             |  |  |
| cooling                                     | Cdc 0.25 -                           | heating                                                       | Cdh 0.25 -                  |  |  |
| Electric power input in power modes othe    | r than 'active mode'                 |                                                               |                             |  |  |
| off mode                                    | Poff <b>4</b> W                      | cooling                                                       | Qce 74 kWh/a                |  |  |
| standby mode                                | Psb 4 W                              | heating / Average                                             | Qhe <b>728</b> kWh/a        |  |  |
| thermostat-off mode                         | Pto 11 W                             | heating / Warmer                                              | Qhe 773 kWh/a               |  |  |
| crankcase heater mode                       | Pck 0 W                              | heating / colder                                              | Qhe - kWh/a                 |  |  |
| Capacity control/indicate and of three and  | ions)                                | Other items                                                   |                             |  |  |
| Capacity control(indicate one of three opt  | ions)                                | Sound power level (indoor)                                    | Lw(2 53 dB(A)               |  |  |
|                                             |                                      | Sound power level(outdoor)                                    | Lwa 56 dB(A)                |  |  |
| fixed                                       | No                                   | Global warming potential                                      | GWP 1975 kgCO2eq.           |  |  |
| staged                                      | No                                   | Rated air flow(indoor)                                        | - 678 m3/h                  |  |  |
| variable                                    | Yes                                  | Rated air flow(outdoor)                                       | - <b>1860</b> m3/h          |  |  |
|                                             | Name and add 500                     | strong an of the surflexity of the                            |                             |  |  |
| more information                            | Name and address of the manufa       | currer or or its authorised representative.                   |                             |  |  |
| 7 Roun                                      | idwood Avenue, Stocklev Park. Uxbrid | lge, Middlesex, UB11 1AX,                                     |                             |  |  |
| United                                      | Kingdom                              | - · · · · · · · · · · · · · · · · · · ·                       |                             |  |  |
|                                             |                                      |                                                               |                             |  |  |
|                                             |                                      |                                                               | C RWA000Z269                |  |  |

#### Model SRK25ZSX-S

| Information to identify the model(s) to w  | hich the informat             | ion relates to:           | If function includes heating: Indicate the he                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ating season        | the           |
|--------------------------------------------|-------------------------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------|
| Indoor unit model name                     | SRK25ZS                       | (-S                       | information relates to. Indicated values should relate to one                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |               |
|                                            | SRC25252                      | (-5                       | neating season at a time. Include at least th                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ne neating se       | ason 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                      | 2 50 k/W                  | Seasonal emiciency and energy emiciency of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | SEER                | 9 60 A+++     |
| heating / Average                          | Pdesignb                      | 2.90 kW                   | heating / Average                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SCOP/A              | 5.20 A+++     |
| heating / Warmer                           | Pdesignh                      | 4.10 kW                   | heating / Warmer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SCOP/W              | 6.60 A+++     |
| heating / Colder                           | Pdesignh                      | - kW                      | heating / Colder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SCOP/C              |               |
|                                            |                               |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     | unit          |
| Declared capacity at outdoor temperatu     | ire Tdesignh                  |                           | Back up heating capacity at outdoor tempe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | rature Tdesig       | nh            |
| heating / Average (-10°C)                  | Pdh                           | 2.90 kW                   | heating / Average (-10°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | elbu                | 0 kW          |
| heating / Warmer (2°C)                     | Pdh                           | 4.10 KW                   | heating / Warmer (2°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | elbu                | 0 kW          |
| heating / Colder (-22 C)                   | Pun                           | - KVV                     | heating / Colder (-22 C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | eibu                | - KVV         |
| Declared capacity for cooling, at indoor   | temperature 27(1              | 9)°C and                  | Declared energy efficiency ratio at indoor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | temperature 2       | 7(19)°C and   |
| outdoor temperature Tj                     | tomporataro 21 (              | o) o unu                  | outdoor temperature Tj                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                     |               |
| Tj=35℃                                     | Pdc                           | 2.50 kW                   | Tj=35℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | EERd                | 5.68 -        |
| Tj=30°C                                    | Pdc                           | 1.84 kW                   | Tj=30°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | EERd                | 8.65 -        |
| Tj=25°C                                    | Pdc                           | 1.18 kW                   | Tj=25℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | EERd                | 12.50 -       |
| Tj=20°C                                    | Pdc                           | 1.25 kW                   | Tj=20°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | EERd                | 17.30 -       |
| Declared and site for heading / Assessment |                               | _                         | Dealars data officiant of a officiant of a sufficient of the suffi |                     | t in de en    |
| temperature 20°C and outdoor temperature   | e season, at indoc<br>ture Ti | и                         | temperature 20°C and outdoor temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | aye season, a<br>Ti | IL ITIDOOF    |
| Ti=-7°C                                    | Pdh                           | 2.57 kW                   | Ti=-7°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | COPd                | 3.10 -        |
| Tj=2°C                                     | Pdh                           | 1.56 kW                   | Tj=2°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | COPd                | 5.33 -        |
| Tj=7℃                                      | Pdh                           | 1.00 kW                   | Tj=7℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | COPd                | 6.60 -        |
| Tj=12°C                                    | Pdh                           | 0.96 kW                   | Tj=12°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | COPd                | 8.30 -        |
| Tj=bivalent temperature                    | Pdh                           | 2.90 kW                   | Tj=bivalent temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | COPd                | 2.60 -        |
| Tj=operating limit                         | Pdh                           | 2.30 kW                   | Tj=operating limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | COPd                | 2.20 -        |
|                                            |                               |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |               |
| Declared capacity for heating / warmer     | season, at indoo              | r                         | temperature 20°C and outdoor temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ner season, a       | tindoor       |
| Ti=2°C                                     | Pdh                           | 410 kW                    | Ti=2°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ; IJ<br>COPd        | 3 20 -        |
| Ti=7°C                                     | Pdh                           | 2.64 kW                   | Ti=7°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | COPd                | 5.90 -        |
| Tj=12°C                                    | Pdh                           | 1.17 kW                   | Tj=12°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | COPd                | 8.30 -        |
| Tj=bivalent temperature                    | Pdh                           | 4.10 kW                   | Tj=bivalent temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | COPd                | 3.20 -        |
| Tj=operating limit                         | Pdh                           | 2.30 kW                   | Tj=operating limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | COPd                | 2.20 -        |
|                                            |                               |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |               |
| Declared capacity for heating / Colders    | season, at indoor             |                           | Declared coefficient of performance / Colde                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | er season, at       | indoor        |
| Ti= $-7^{\circ}$ C                         | Ddb                           | - k/\/                    | Timperature 20 C and outdoor temperature $Ti = 7^{\circ}C$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | COPd                |               |
| Ti=2°C                                     | Pdh                           | - kW                      | Ti=2°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | COPd                |               |
| Tj=7°C                                     | Pdh                           | - kW                      | Tj=7°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | COPd                |               |
| Tj=12℃                                     | Pdh                           | - kW                      | Tj=12°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | COPd                |               |
| Tj=bivalent temperature                    | Pdh                           | - kW                      | Tj=bivalent temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | COPd                |               |
| Tj=operating limit                         | Pdh                           | - kW                      | Tj=operating limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | COPd                |               |
| Tj=-15°C                                   | Pdh                           | - kW                      | Tj=-15℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | COPd                |               |
| Pivelent temperature                       |                               |                           | Operating limit temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                     |               |
| beating / Average                          | Thiv                          | -10 °C                    | beating / Average                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Tol                 | -20 °C        |
| heating / Warmer                           | Thiv                          | 2 °C                      | heating / Warmer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Tol                 | -20 °C        |
| heating / Colder                           | Tbiv                          | - °C                      | heating / Colder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Tol                 | - °C          |
|                                            |                               | · · · · ·                 | v                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     | · · · ·       |
| 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 -        |
| 5                                          |                               |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |               |
| Electric power input in power modes ot     | her than 'active m            | ode'                      | Annual electricity consumption                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                     |               |
| off mode                                   | Poff                          | 4 W                       | cooling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Qce                 | 92 kWh/a      |
| standby mode                               | Psb                           | 4 W                       | heating / Average                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Qhe                 | 781 kWh/a     |
| thermostat-on mode                         | Pto                           | 11 VV                     | heating / vvarmer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Qne                 | 8/1 KWh/a     |
|                                            | FUK                           | U [VV                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | GIIC                | - KVVII/a     |
| Capacity control(indicate one of three of  | ptions)                       |                           | Other items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                     |               |
|                                            | . ,                           |                           | Sound power level(indoor)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Lwa                 | 55 dB(A)      |
|                                            |                               |                           | Sound power level(outdoor)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Lwa                 | 57 dB(A)      |
| fixed                                      | No                            |                           | Global warming potential                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | GWP                 | 1975 kgCO2eq. |
| staged                                     | No                            |                           | Rated air flow(indoor)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -                   | 732 m3/h      |
| variable                                   | Yes                           |                           | Rated air flow(outdoor)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -                   | 1860 m3/h     |
| Contact details for obtaining              | Name and                      | address of the manufac    | cturer or of its authorised representative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |               |
| more information Mitsu                     | ibishi Heavy Indu             | stries Air-Conditioning I | Europe, Ltd.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                     |               |
| 7 Ro                                       | undwood Avenue                | , Stockley Park, Uxbrid   | ge, Middlesex, UB11 1AX,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |               |
| Unite                                      | ed Kingdom                    |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |               |
| L I                                        |                               |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |               |

### Model SRK35ZSX-S

| Information to identify the model(s) to wh  | ich t <u>he informa</u> t | ion relates to:                                               | If function includes heating: Indicate the heat  | ting season  | the          |                 |
|---------------------------------------------|---------------------------|---------------------------------------------------------------|--------------------------------------------------|--------------|--------------|-----------------|
| Indoor unit model name SRK35ZSX-S           |                           | information relates to. Indicated values should relate to one |                                                  |              |              |                 |
| Outdoor unit model name                     | SRC35ZS                   | X-S                                                           | heating season at a time. Include at least th    | e heating se | ason 'Avera  | ge'.            |
|                                             |                           | 1                                                             |                                                  | X            |              |                 |
| Function(indicate if present)               | Vaa                       |                                                               | Average(mandatory)                               | Yes          |              |                 |
| booting                                     | Yes                       |                                                               | Colder/if designated)                            | res          |              |                 |
| Theating                                    | 163                       |                                                               |                                                  | NO           |              |                 |
| Item                                        | symbol                    | value unit                                                    | Item                                             | symbol       | value        | class           |
| Design load                                 | ey moor                   | taldo ant                                                     | Seasonal efficiency and energy efficiency cl     | ass          | Value        | 0.000           |
| cooling                                     | Pdesignc                  | 3.50 kW                                                       | cooling                                          | SEER         | 9.20         | A+++            |
| heating / Average                           | Pdesignh                  | 3.30 kW                                                       | heating / Average                                | SCOP/A       | 5.10         | A+++            |
| heating / Warmer                            | Pdesignh                  | 4.60 kW                                                       | heating / Warmer                                 | SCOP/W       | 6.50         | A+++            |
| heating / Colder                            | Pdesignh                  | - kW                                                          | heating / Colder                                 | SCOP/C       | -            | -               |
|                                             |                           |                                                               |                                                  |              |              | unit            |
| Declared capacity at outdoor temperature    | e Tdesignh                |                                                               | Back up heating capacity at outdoor temper       | ature Tdesig | inh          |                 |
| heating / Average (-10°C)                   | Pdh                       | 3.30 kW                                                       | heating / Average (-10°C)                        | elbu         | 0            | kVV             |
| heating / Warmer (2°C)                      | Pdh                       | 4.60 kW                                                       | heating / Warmer (2°C)                           | elbu         | 0            | kVV             |
| neating / Colder (-22°C)                    | Pan                       | - KVV                                                         | heating / Colder (-22°C)                         | elbu         | -            | KVV             |
| Declared especity for expline, at indeer to | magaziura 27/             | 10\°C and                                                     | Declared operativ officiency ratio, at indeer to | moratura     | 27(10)°C and | 4               |
| Declared capacity for cooling, at motor to  | emperature 27(            | 19) C and                                                     | outdoor temperature Ti                           | imperature 2 | 27(19) C and | J               |
| Ti=35°C                                     | Pdc                       | 3.50 kW                                                       | Ti=35°C                                          | FERd         | 4 4 9        | 1.              |
| Ti=30°C                                     | Pdc                       | 2.58 kW                                                       | Ti=30°C                                          | EERd         | 7.20         | <u> </u> _      |
| Ti=25°C                                     | Pdc                       | 1.66 k/M                                                      | Ti=25°C                                          | FERd         | 12.40        | <u> </u>        |
| Ti=20°C                                     | Pdc                       | 1.00 kW                                                       | Ti=20°C                                          | EERd         | 16.60        |                 |
| .,                                          | 1.40                      |                                                               | .,                                               |              | 13.00        |                 |
| Declared capacity for heating / Average     | eason, at indo            | or                                                            | Declared coefficient of performance / Avera      | ge season. a | at indoor    |                 |
| temperature 20°C and outdoor temperatu      | ire Tj                    |                                                               | temperature 20°C and outdoor temperature         | Ťj           |              |                 |
| Tj=-7°C                                     | Pdh                       | 2.90 kW                                                       | Tj=-7°C                                          | COPd         | 3.00         | 1- I            |
| Tj=2°C                                      | Pdh                       | 1.78 kW                                                       | Tj=2°C                                           | COPd         | 5.20         | 1-              |
| Tj=7°C                                      | Pdh                       | 1.14 kW                                                       | Tj=7℃                                            | COPd         | 6.60         | 1-              |
| Tj=12°C                                     | Pdh                       | 0.96 kW                                                       | Tj=12°C                                          | COPd         | 8.10         | 1-              |
| Tj=bivalent temperature                     | Pdh                       | 3.30 kW                                                       | Tj=bivalent temperature                          | COPd         | 2.50         | 1-              |
| Tj=operating limit                          | Pdh                       | 2.60 kW                                                       | Tj=operating limit                               | COPd         | 2.10         | l-              |
|                                             |                           | · · · · ·                                                     |                                                  |              |              |                 |
| Declared capacity for heating / Warmer s    | eason, at indoc           | r                                                             | Declared coefficient of performance / Warm       | er season, a | t indoor     |                 |
| temperature 20°C and outdoor temperatu      | ire Tj                    |                                                               | temperature 20°C and outdoor temperature         | Tj           |              | _               |
| Tj=2°C                                      | Pdh                       | 4.60 kW                                                       | Tj=2°C                                           | COPd         | 3.00         | -               |
| Tj=7°C                                      | Pdh                       | 2.96 kW                                                       | Tj=7°C                                           | COPd         | 5.70         | -               |
| Tj=12°C                                     | Pdh                       | 1.31 kW                                                       | Tj=12°C                                          | COPd         | 8.40         | -               |
| Tj=bivalent temperature                     | Pdh                       | 4.60 kW                                                       | Tj=bivalent temperature                          | COPd         | 3.00         | -               |
| Tj=operating limit                          | Pdh                       | 2.60 kW                                                       | Tj=operating limit                               | COPd         | 2.10         | -               |
|                                             |                           |                                                               |                                                  |              |              |                 |
| Declared capacity for heating / Colder se   | ason, at indoor           |                                                               | Declared coefficient of performance / Colde      | r season, at | indoor       |                 |
| temperature 20°C and outdoor temperatu      | ire Tj                    |                                                               | temperature 20°C and outdoor temperature         | Tj           |              | ,               |
| Tj=-7℃                                      | Pdh                       | - kW                                                          | Tj=-7°C                                          | COPd         | -            | -               |
| IJ=2°C                                      | Pdh                       | - kW                                                          | IJ=2°C                                           | COPd         | -            | -               |
| Tj=7°C                                      | Pdh                       | - kW                                                          | Tj=7°C                                           | COPd         | -            | -               |
| IJ=12°C                                     | Pdh                       | - kW                                                          | Ij=12°C                                          | COPd         | -            | -               |
| Ij=bivalent temperature                     | Pdh                       | - kW                                                          | Ij=bivalent temperature                          | COPd         | -            | -               |
| I j=operating limit                         | Pdh                       | - kW                                                          | Ij=operating limit                               | COPd         | -            | -               |
| Tj=-15℃                                     | Pdh                       | - kW                                                          | Tj=-15℃                                          | COPd         | -            | -               |
| Bivalent temperature                        |                           | 1                                                             | Operating limit temperature                      |              |              |                 |
| heating / Average                           | Thiv                      | -10 °C                                                        | heating / Average                                | Tol          | -20          | °c              |
| heating / Warmer                            | Thiv                      | 2 %                                                           | heating / Warmer                                 | Tol          | _20          | °C              |
| heating / Colder                            | Thiv                      | - °C                                                          | heating / Colder                                 | Tol          | -20          | о<br>Э°         |
|                                             | 1014                      | , IV                                                          | nouting / Coldol                                 | 101          | +            | , ŭ             |
| Cycling interval capacity                   |                           |                                                               | Cycling interval efficiency                      |              |              |                 |
| for cooling                                 | Pcycc                     | - kW                                                          | for cooling                                      | EERcyc       | -            | -               |
| for heating                                 | Pcych                     | - kW                                                          | for heating                                      | COPcyc       | -            | 1-              |
|                                             |                           |                                                               | · · · ·                                          |              |              |                 |
| Degradation coefficient                     |                           |                                                               | Degradation coefficient                          |              |              | _               |
| cooling                                     | Cdc                       | 0.25 -                                                        | heating                                          | Cdh          | 0.25         | -               |
|                                             |                           |                                                               |                                                  |              |              |                 |
| Electric power input in power modes othe    | er than 'active m         | node'                                                         | Annual electricity consumption                   | 0            |              | 1               |
| off mode                                    | Poff                      | 4 W                                                           | cooling                                          | Qce          | 134          | kWh/a           |
| standby mode                                | Psb                       | 4 W                                                           | heating / Average                                | Qhe          | 906          | kWh/a           |
| tnermostat-off mode                         | Pto                       | 11 W                                                          | neating / Warmer                                 | Qhe          | 991          | κWh/a           |
| crankcase neater mode                       | Pck                       | U W                                                           | neating / colder                                 | Qne          |              | кvvn/a          |
| Canacity control/indiants                   | tione)                    | 1                                                             | Other items                                      |              |              |                 |
| Capacity control(indicate one of three op   | uons)                     |                                                               | Sound power level/indeer)                        | Lwa          | E0           |                 |
|                                             |                           |                                                               | Sound power level(indoor)                        | Lwa          | 50           |                 |
| fixed                                       | NI                        |                                                               |                                                  | LWa          | 01           | uB(A)           |
| nixed                                       | NO                        |                                                               | Botod oir flow(indoor)                           | GWP          | 19/5         | rycozeq.        |
| slayeu<br>variable                          | NO<br>V                   |                                                               | Rated air flow(cutdoor)                          | -            | /86          | 1113/II<br>m3/b |
| vanable                                     | res                       |                                                               |                                                  | -            | 2160         | 1113/11         |
| Contact details for obtaining               | Name and                  | address of the manufac                                        | sturer or of its authorised representative       |              |              |                 |
| more information Mitsub                     | ishi Heavy Indu           | stries Air-Conditioning F                                     | Europe. Ltd.                                     |              |              |                 |
| 7 Roll                                      | ndwood Avenue             | . Stocklev Park 11xhride                                      | ge, Middlesex, UB11 1AX                          |              |              |                 |
| United                                      | Kingdom                   | ,, . and exercise                                             | , , , , , , , , , , , , , , , , , , ,            |              |              |                 |
|                                             |                           |                                                               |                                                  |              |              |                 |

C RWA000Z269

#### Model SRK50ZSX-S

| Information to identify the model(s) to w                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | hich the information rel                  | lates to:         | If function includes heating: Indicate the heating                                                              | ating season  | the             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------|---------------|-----------------|
| loor unit model name SRK50/23X-S Information relates to. Indicated values should relate to one season a verage heating season a time. Include at least the heating season a verage heating season a ve |                                           |                   | one                                                                                                             |               |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 38030237-3                                |                   | fieating season at a time. Include at least ti                                                                  | ie neating se | ason Average.   |
| Function(indicate if present)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                           |                   | Average(mandatory)                                                                                              | Yes           |                 |
| cooling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Yes                                       |                   | Warmer(if designated)                                                                                           | Yes           |                 |
| heating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Yes                                       |                   | Colder(if designated)                                                                                           | No            |                 |
| Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | symbol value                              | unit              | Item                                                                                                            | symbol        | value class     |
| Design load                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Symbol value                              | . unit            | Seasonal efficiency and energy efficiency of                                                                    | lass          |                 |
| cooling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Pdesignc 5.                               | 00 kW             | cooling                                                                                                         | SEER          | 8.20 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+++       |
| neating / Colder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Paesignn                                  | - KVV             | neating / Colder                                                                                                | SCOP/C        |                 |
| Declared capacity at outdoor temperatu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | re Tdesianh                               |                   | Back up heating capacity at outdoor temper                                                                      | rature Tdesig | nh              |
| 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Pdh                                       | - kW              | heating / Colder (-22°C)                                                                                        | elbu          | - kW            |
| Declared capacity for cooling, at indoor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | temperature 27(10)°C                      | and               | Declared energy efficiency ratio, at indoor t                                                                   | emperature 2  | 7(10)°C and     |
| outdoor temperature Tj                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                           | and               | outdoor temperature Tj                                                                                          |               | ./(13) O and    |
| Tj=35℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Pdc 5.                                    | 00 kW             | Tj=35°C                                                                                                         | EERd          | 3.85 -          |
| Tj=30°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Pdc 3.                                    | 68 kW             | Tj=30°C                                                                                                         | EERd          | 5.77 -          |
| Tj=25°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Pdc 2.                                    | 37 kW             | Tj=25°C                                                                                                         | EERd          | 9.86            |
| 11-20 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Puc 1.                                    | 42 KVV            | 1]-20 C                                                                                                         | EEKQ          | 10.40           |
| Declared capacity for heating / Average                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | season, at indoor                         |                   | Declared coefficient of performance / Avera                                                                     | ge season. a  | t indoor        |
| temperature 20°C and outdoor temperat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ure Tj                                    |                   | temperature 20°C and outdoor temperature                                                                        | Tj            |                 |
| Tj=-7°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Pdh 3.                                    | 98 kW             | Tj=-7°C                                                                                                         | COPd          | 3.00 -          |
| Tj=2°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Pdh 2.                                    | 42 kW             | Tj=2°C                                                                                                          | COPd          | 4.65            |
| Tj=7°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Pan 1.                                    | 56 KVV            | IJ=7°C                                                                                                          | COPd          | 6.00 -          |
| Ti=bivalent temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Pdh 1.                                    | 50 kW             | Ti=bivalent temperature                                                                                         | COPd          | 2.70 -          |
| Tj=operating limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Pdh 3.                                    | 40 kW             | Tj=operating limit                                                                                              | COPd          | 2.20 -          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           | •                 |                                                                                                                 |               |                 |
| Declared capacity for heating / Warmer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | season, at indoor                         |                   | Declared coefficient of performance / Warm                                                                      | ier season, a | t indoor        |
| temperature 20°C and outdoor temperat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ure Ij<br>Ddb 6                           |                   | temperature 20°C and outdoor temperature                                                                        | L]            | 2.90            |
| Ti=7°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Pdh 3                                     | 86 kW             | Ti=7°C                                                                                                          | COPd          | 5.20            |
| Tj=12°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Pdh 1.                                    | 71 kW             | Tj=12°C                                                                                                         | COPd          | 7.45 -          |
| Tj=bivalent temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Pdh 6.                                    | 00 kW             | Tj=bivalent temperature                                                                                         | COPd          | 2.90 -          |
| Tj=operating limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Pdh 3.4                                   | <b>40</b> kW      | Tj=operating limit                                                                                              | COPd          | 2.20 -          |
| Dealared appaaity for booting / Colder a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | accon at indeer                           |                   | Declared coefficient of performance / Colde                                                                     | r accord at   | indoor          |
| temperature 20°C and outdoor temperat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | eason, at muoor<br>rure Ti                |                   | temperature 20°C and outdoor temperature                                                                        | Ti            |                 |
| 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          |                 |
| Ij=12°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Pdh -                                     | - KVV             | IJ=12°C                                                                                                         | COPd          |                 |
| Ti=operating limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Pan Pan Pan                               | - KVV             | Ti=operating limit                                                                                              | COPd          |                 |
| Ti=-15°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Pdh                                       | - kW              | Ti=-15°C                                                                                                        | COPd          |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |                   |                                                                                                                 |               |                 |
| Bivalent temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                           |                   | Operating limit temperature                                                                                     |               |                 |
| heating / Average                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Tbiv -1                                   | 0 °C              | heating / Average                                                                                               | Tol           | -20 °C          |
| heating / Warmer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Thiv                                      |                   | heating / Warner                                                                                                | Tol           | -20 C           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1010                                      | U                 | fielding / oblact                                                                                               | 101           | 0               |
| Cycling interval capacity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                           |                   | Cycling interval efficiency                                                                                     |               |                 |
| for cooling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Pcycc                                     | - kW              | for cooling                                                                                                     | EERcyc        |                 |
| for heating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Pcych                                     | - kW              | for heating                                                                                                     | COPcyc        |                 |
| Degradation coefficient                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                           |                   | Degradation coefficient                                                                                         |               |                 |
| cooling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Cdc 0.                                    | 25 -              | heating                                                                                                         | Cdh           | 0.25 -          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |                   |                                                                                                                 |               | · ·             |
| Electric power input in power modes oth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | er than 'active mode'                     | 4                 | Annual electricity consumption                                                                                  | 0.00          | 044 L3A//- /-   |
| standby mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Psh 4                                     | • VV<br>4 VV      | heating / Average                                                                                               | Ohe           | 1341 kW/h/a     |
| thermostat-off mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Pto 1                                     | 2 W               | heating / Warmer                                                                                                | Qhe           | 1425 kWh/a      |
| crankcase heater mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Pck (                                     | 0 W               | heating / colder                                                                                                | Qhe           | - kWh/a         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |                   |                                                                                                                 |               |                 |
| Capacity control(indicate one of three of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ptions)                                   |                   | Other items                                                                                                     | Luce          | <b>50</b> JD(A) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |                   | Sound power level(Indoor)                                                                                       | ∟wa           | 63 dB(A)        |
| fixed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | No                                        |                   | Global warming potential                                                                                        | GWP           | 1975 kaCO2ea.   |
| staged                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | No                                        |                   | Rated air flow(indoor)                                                                                          | -             | 858 m3/h        |
| variable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Yes                                       |                   | Rated air flow(outdoor)                                                                                         | -             | 2340 m3/h       |
| Contest details for obtain!                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Name - 1                                  |                   | the second state and the second second second second second second second second second second second second se |               |                 |
| more information Miteu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ivame and addre<br>bishi Heavy Industries | Air-Conditioning  | Europe 1 td                                                                                                     |               |                 |
| 7 Rot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | indwood Avenue, Stoc                      | kley Park, Uxbrid | ge, Middlesex, UB11 1AX,                                                                                        |               |                 |
| Unite                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | d Kingdom                                 |                   |                                                                                                                 |               |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |                   |                                                                                                                 |               |                 |

### Model SRK60ZSX-S

| Information to identify the model(s) to w | hich the informat   | tion relates to: |             | If function includes heating: Indicate the he  | ating season    | the         |          |
|-------------------------------------------|---------------------|------------------|-------------|------------------------------------------------|-----------------|-------------|----------|
| Indoor unit model name                    | SRK60ZS             | X-S              |             | information relates to. Indicated values sho   | uld relate to o | one         |          |
| Outdoor unit model name                   | SRC60ZS             | X-S              |             | heating season at a time. Include at least the | ne heating se   | ason 'Avera | ge'.     |
|                                           |                     |                  |             |                                                |                 |             |          |
| Function(indicate if present)             | ¥                   |                  |             | Average(mandatory)                             | Yes             |             |          |
| beating                                   | Yes                 |                  |             | Colder/if designated)                          | No              |             |          |
| Theating                                  | 165                 |                  |             | Colder (II designated)                         | NO              |             |          |
| Item                                      | symbol              | value u          | nit         | Item                                           | symbol          | value       | class    |
| Design load                               |                     |                  |             | Seasonal efficiency and energy efficiency of   | lass            |             |          |
| cooling                                   | Pdesignc            | 6.10 k           | W           | cooling                                        | SEER            | 7.60        | A++      |
| heating / Average                         | Pdesignh            | 5.20 k           | W           | heating / Average                              | SCOP/A          | 4.70        | A++      |
| heating / Warmer                          | Pdesignh            | 6.80 k           | W           | heating / Warmer                               | SCOP/W          | 5.80        | A+++     |
| heating / Colder                          | Pdesignh            | - k'             | W           | heating / Colder                               | SCOP/C          | -           | -        |
| <b>-</b>                                  |                     |                  |             |                                                |                 |             | unit     |
| Declared capacity at outdoor temperatu    | re I designh        | <b>5 00</b> U    |             | Back up heating capacity at outdoor tempe      | rature I desig  | nh          | 1.3.47   |
| heating / Average (-10 C)                 | Pan                 | 5.20 K           | vv          | heating / Average (-10 C)                      | elbu            | 0           | KVV      |
| heating / Colder (22°C)                   | Pdb                 | 0.00 K           | VV<br>\\\/  | heating / Colder ( 22°C)                       | elbu            | U           |          |
|                                           | T GIT               | - 1              | vv          |                                                | Cibu            |             | NVV.     |
| Declared capacity for cooling at indoor   | temperature 27(     | 19)°C and        |             | Declared energy efficiency ratio at indoor t   | emperature 2    | 7(19)°C and | 1        |
| outdoor temperature Ti                    | 101110010101010121( | io) o ana        |             | outdoor temperature Ti                         | omporataro 2    | () e une    | ·        |
| Tj=35℃                                    | Pdc                 | 6.10 k           | W           | Tj=35°C                                        | EERd            | 3.37        | -        |
| Tj=30°C                                   | Pdc                 | 4.50 k           | W           | Tj=30°C                                        | EERd            | 5.15        | -        |
| Tj=25°C                                   | Pdc                 | 2.89 k           | W           | Tj=25°C                                        | EERd            | 8.65        | -        |
| Tj=20°C                                   | Pdc                 | <b>1.40</b> k    | W           | Tj=20°C                                        | EERd            | 18.80       | -        |
|                                           |                     |                  |             |                                                |                 |             |          |
| Declared capacity for heating / Average   | season, at indoo    | or               |             | Declared coefficient of performance / Avera    | ige season, a   | t indoor    |          |
| temperature 20°C and outdoor tempera      | iure Tj             | 4.00             |             | temperature 20°C and outdoor temperature       |                 | 0.00        |          |
| Tj=-/ C                                   | Pan                 | 4.60 k           | VV          | 1]=-/ C                                        |                 | 2.80        | -        |
| Ti=7°C                                    | Pan                 | 2.80 K           | v V<br>\\\/ | 1j-2 0<br>Ti-7°C                               | COPA            | 4./0        | -        |
| Tj=7 C                                    | Pun<br>Pdb          | 1.00 K           | VV<br>\\\   | Ti=12°C                                        | COPd            | 7.15        | -        |
| Ti=hivalent temperature                   | Pdh                 | 5.20 k           | v v<br>\\\/ | Ti=bivalent temperature                        | COPd            | 2.50        | -        |
|                                           | Pdh                 | 4.00 k           | Ŵ           |                                                | COPd            | 2.30        |          |
|                                           | 1 011               | 4.00             |             |                                                | 0014            | 2.10        |          |
| Declared capacity for heating / Warmer    | season, at indoc    | or               |             | Declared coefficient of performance / Warn     | ner season, a   | t indoor    |          |
| temperature 20°C and outdoor tempera      | ture Tj             |                  |             | temperature 20°C and outdoor temperature       | Ti              |             |          |
| Tj=2℃                                     | Pdh                 | 6.80 k           | W           | Tj=2°C                                         | COPd            | 2.70        | -        |
| Tj=7℃                                     | Pdh                 | 4.37 k           | W           | Tj=7°C                                         | COPd            | 5.02        | -        |
| Tj=12°C                                   | Pdh                 | 1.94 k           | W           | Tj=12°C                                        | COPd            | 7.54        | -        |
| Tj=bivalent temperature                   | Pdh                 | 6.80 k           | W           | Tj=bivalent temperature                        | COPd            | 2.70        | -        |
| Tj=operating limit                        | Pdh                 | 4.00 k           | W           | Tj=operating limit                             | COPd            | 2.10        | -        |
|                                           |                     |                  |             |                                                |                 |             |          |
| Declared capacity for heating / Colder s  | eason, at indoor    |                  |             | Declared coefficient of performance / Colde    | er season, at   | indoor      |          |
| temperature 20°C and outdoor tempera      | ture Tj             |                  |             | temperature 20°C and outdoor temperature       | Tj              |             |          |
| Tj=-7℃                                    | Pdh                 | - k              | W           | Tj=-7°C                                        | COPd            | -           | -        |
| IJ=2°C                                    | Pdh                 | - k              | W           | IJ=2°C                                         | COPd            |             | -        |
| Tj=7℃                                     | Pdh                 | - k              | W           | Tj=7°C                                         | COPd            |             | -        |
| IJ=12°C                                   | Pdh                 | - K              | vv          | IJ=12°C                                        | COPd            | -           | -        |
| Ij=bivalent temperature                   | Pdh                 | - K              | vv          | Ij=bivalent temperature                        | COPd            | -           | -        |
|                                           | Pan                 | - K              | VV          |                                                | COPa            | -           | -        |
| TJ=-15 C                                  | Pun                 | - K              | VV          | TJ=-15 C                                       | COPa            | -           | -        |
| Bivalent temperature                      |                     |                  |             | Operating limit temperature                    |                 |             |          |
| heating / Average                         | Tbiv                | -10 °C           | 2           | heating / Average                              | Tol             | -20         | °C       |
| heating / Warmer                          | Tbiv                | 2 °C             | 2           | heating / Warmer                               | Tol             | -20         | °C       |
| heating / Colder                          | Tbiv                | - %              | c           | heating / Colder                               | Tol             | -           | °C       |
|                                           |                     | ·                |             |                                                |                 | ·           |          |
| Cycling interval capacity                 |                     |                  |             | Cycling interval efficiency                    |                 |             |          |
| for cooling                               | Pcycc               | - k'             | W           | for cooling                                    | EERcyc          |             | -        |
| for heating                               | Pcych               | - k'             | W           | for heating                                    | COPcyc          | -           | -        |
|                                           |                     |                  |             |                                                |                 |             |          |
| Degradation coefficient                   | Cdo                 | 0.25             |             | Degradation coefficient                        | Cdb             | 0.25        |          |
| cooling                                   | Cuc                 | 0.25 -           |             | lieauig                                        | Cull            | 0.25        | -        |
| Electric power input in power modes of    | er than 'active m   | node'            |             | Annual electricity consumption                 |                 |             |          |
| off mode                                  | Poff                | 4 V              | v           | cooling                                        | Qce             | 282         | kWh/a    |
| standby mode                              | Psb                 | 4 V              | v           | heating / Average                              | Qhe             | 1551        | kWh/a    |
| thermostat-off mode                       | Pto                 | 12 V             | v           | heating / Warmer                               | Qhe             | 1641        | kWh/a    |
| crankcase heater mode                     | Pck                 | 0 V              | v           | heating / colder                               | Qhe             |             | kWh/a    |
|                                           | ·                   | · · · ·          |             | · · · · ·                                      |                 |             |          |
| Capacity control(indicate one of three o  | ptions)             |                  |             | Other items                                    |                 |             |          |
|                                           |                     |                  |             | Sound power level(indoor)                      | Lwa             | 62          | dB(A)    |
|                                           |                     |                  |             | Sound power level(outdoor)                     | Lwa             | 65          | dB(A)    |
| fixed                                     | No                  |                  |             | Global warming potential                       | GWP             | 1975        | kgCO2eq. |
| staged                                    | No                  |                  |             | Rated air flow(indoor)                         | -               | 978         | m3/h     |
| variable                                  | Yes                 |                  |             | Rated air flow(outdoor)                        | -               | 2490        | m3/h     |
|                                           |                     | a dalara in 1911 |             | to many an of the south ania. I have the       |                 |             |          |
| Contact details for obtaining             | Name and            | address of th    | e manufac   | cturer or of its authorised representative.    |                 |             |          |
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