



TECHNICAL MANUAL

INVERTER WALL MOUNTED TYPE RESIDENTIAL AIR-CONDITIONERS

(Split system, air to air heat pump type)

SRK20ZS-W, -WB, -WT

25ZS-W, -WB, -WT

35ZS-W, -WB, -WT

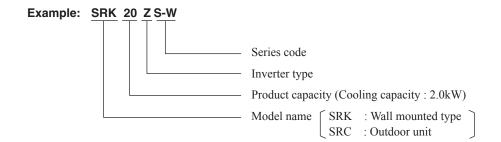
50ZS-W, -WB, -WT

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■ How to read the model name



1. SPECIFICATIONS

			Model		20ZS-W		
Item				Indoor unit SRK20ZS-W	Outdoor unit SRC20ZS-W		
Power source	ce			1 Phase, 220 - 24	0V, 50Hz / 220V, 60Hz		
	Nominal cooling capacity (rang	ge)	kW	2.0 (0.9 (M	n.) - 2.9 (Max.))		
	Nominal heating capacity (range)		kW	2.7 (0.9 (Min.) - 4.3 (Max.))			
	Heating capacity (H2)		kW	- - "			
		Cooling		0.44 (0	.19 - 0.80)		
	Power consumption	Heating	kW	0.59 (0	.20 - 1.40)		
	· · · · · · · · · · · · · · · · · · ·	Heating (H2)	1				
	Max power consumption	1.10dti.1g (1.12)			1.65		
	max perior concemption	Cooling			(220/ 230/ 240V)		
	Running current	Heating	A		(220/ 230/ 240V)		
0	Invited autrent may autrent	rieating	· ^		0/ 230/ 240V) Max. 9		
Operation data	Inrush current, max current	Cooling		3.2 / 3.0 / 2.9 (22)	,		
uata	Power factor		%		79		
	FFD	Heating			85		
	EER	Cooling			4.55		
	COP	Heating			4.58		
		Heating (H2)			_		
	Sound power level	Cooling		48	56		
	Godina power level	Heating		50	56		
	Carrad musassima lavial	Cooling	dB(A)	Hi: 34 Me: 25 Lo: 22 ULo: 19	45		
	Sound pressure level	Heating	1	Hi: 36 Me: 29 Lo: 23 ULo: 19	45		
	Silent mode sound pressure le	vel	1	_	Cooling:42 / Heating:43		
Exterior dim	ensions (Height x Width x Depth)	mm	290 x 870 x 230	540 x 780(+62) x 290		
Exterior app		,	1	Fine snow (Pure white)	Stucco white		
	color : Munsell, RAL)			(8.0Y 9.3/0.1), (9003)	(4.2Y 7.5/1.1), (7044)		
Net weight			kg	9.5	31.5		
Compressor type & Quantity			<u> </u>	_	RM-C5077SBE71(Rotary type) x 1		
<u> </u>	motor (Starting method)		kW	_	0.75 (Inverter driven)		
<u> </u>			l	_	0.30 (DIAMOND FREEZE MB75)		
Refrigerant oil (Amount, type)			kg	P22 0.62 in outdoor unit (Incl.	the amount for the piping of 15m)		
Refrigerant (Type, amount, pre-charge length)			, ky	Louver fins & inner grooved tubing	M fins & inner grooved tubing		
Heat exchanger							
Refrigerant control					ectronic expansion valve		
Fan type & 0			147	Tangential fan x 1	Propeller fan x 1		
Fan motor (S	Starting method)	To 1:	W	42 x1 (Direct drive)	24 x1 (Direct drive)		
Air flow		Cooling	m³/min	Hi: 9.3 Me: 7.0 Lo: 5.9 ULo: 5.0	27.4		
		Heating		Hi: 10.0 Me: 8.5 Lo: 6.5 ULo: 5.9	23.6		
	ternal static pressure		Pa	0	0		
Outside air i	ntake			Not possible	_		
Air filter, Qua	ality / Quantity			Polypropylene net (Washable) x 2	_		
Shock & vib	ration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor)		
Electric heat	er			_	_		
o .:	Remote control			Wireless remote control			
Operation control	Room temperature control			Microcomp	uter thermostat		
COILLO	Operation display			RUN: Green, TIMER: Yellow			
Safety equip	oments			Frost protection, Serial signal error pro	ection, Overcurrent protection, otection, Indoor fan motor error protection, ssure control), Cooling overload protection		
	Refrigerant piping size (O.D)		mm	Liquid line: φ6.35 (1/4"			
	Connecting method		1	Flare connection	Flare connection		
	Attached length of piping		m	Liquid line: 0.54 / Gas line: 0.47			
Installation	Insulation for piping		- '''	·	sides \ independent		
data	Refrigerant line (one way) leng	yth.	m	Necessary (Both sides), independent Max.20			
	Vertical height diff. between O		m				
		.o. and i.u.	m	` `) / Max.10 (Outdoor unit is lower)		
Drain hose			Hose connectable (VP 16) Hole φ20 x 2 pcs				
Drain pump, max lift height		mm	_				
Recommended breaker size			A		16		
•	ed rotor ampere)		Α		(220/ 230/ 240V)		
Interconnect	ting wires Size x Core r	number		, ,	able) / Terminal block (Screw fixing type)		
IP number				IPX0	IPX4		
Standard ac	cessories			Mounting kit, Clean filter (Allergen clear filter)	1, Photocatalytic washable deodorizing filter x 1)		
Option parts	· · · · · · · · · · · · · · · · · · ·			Interface kit	(SC-BIKN2-E)		

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

Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7℃	6°C	ISO5151-H1
Heating (H2)	20°C	_	2°C	1°C	ISO5151-H2

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

			Model	SRK2	5ZS-W	
Item				Indoor unit SRK25ZS-W	Outdoor unit SRC25ZS-W	
Power source	ce			1 Phase, 220 - 240\	/, 50Hz / 220V, 60Hz	
	Nominal cooling capacity (rang	ge)	kW	2.5 (0.9 (Min	.) - 3.1 (Max.))	
	Nominal heating capacity (range)		kW	3.2 (0.9 (Min	.) - 4.5 (Max.))	
	Heating capacity (H2)		kW	_		
		Cooling		0.62 (0.1	9 - 0.90)	
	Power consumption	Heating	kW	0.74 (0.2	20 - 1.42)	
		Heating (H2)		-	- -	
	Max power consumption			1.	65	
	Running current	Cooling		3.3 / 3.1 / 3.0 (220/ 230/ 240V)	
	nulling current	Heating	Α	3.7 / 3.6 / 3.4 (220/ 230/ 240V)	
Operation	Inrush current, max current			3.7 / 3.6 / 3.4 (220/	230/ 240V) Max. 9	
data	Power factor	Cooling	- %	8	6	
		Heating	/0	9	0	
	EER	Cooling		4.	03	
	COP	Heating	_	4.	32	
	001	Heating (H2)			-	
	Sound power level	Cooling	_	50	56	
	Courta power level	Heating		53	58	
	Sound pressure level	Cooling	dB(A)	Hi: 36 Me: 28 Lo: 23 ULo: 19	46	
	Courta procodio level	Heating		Hi: 39 Me: 30 Lo: 24 ULo: 19	46	
	Silent mode sound pressure level			_	Cooling:42 / Heating:43	
	ensions (Height x Width x Depth)	mm	290 x 870 x 230	540 x 780(+62) x 290	
Exterior app				Fine snow (Pure white)	Stucco white	
(Equivalent color : Munsell, RAL)		<u> </u>	(8.0Y 9.3/0.1), (9003)	(4.2Y 7.5/1.1), (7044)		
Net weight			kg	9.5	31.0	
Compressor type & Quantity			1.347	_	RM-C5077SBE71(Rotary type) x 1	
Compressor motor (Starting method)			kW	_	0.75 (Inverter driven)	
Refrigerant oil (Amount, type)		l	— — — — — — — — — — — — — — — — — — —	0.30 (DIAMOND FREEZE MB75)		
Refrigerant (Type, amount, pre-charge length)		kg	,	ne amount for the piping of 15m)		
Heat exchar	<u> </u>			Louver fins & inner grooved tubing	M fins & inner grooved tubing	
Refrigerant of				Tangential fan x 1	tronic expansion valve	
Fan type & C	Starting method)		W	42 x1 (Direct drive)	Propeller fan x 1 24 x1 (Direct drive)	
ran motor (3	Starting method)	Cooling	VV	Hi: 9.9 Me: 8.0 Lo: 5.9 ULo: 5.0	27.4	
Air flow		Heating	m³/min	Hi: 11.3 Me: 8.7 Lo: 6.7 ULo: 5.9	23.6	
Available ex	ternal static pressure	rieating	Pa	0	0	
Outside air i	· · · · · · · · · · · · · · · · · · ·		1 4	Not possible	_	
	ality / Quantity			Polypropylene net (Washable) x 2	_	
	ration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor)	
Electric heat		,			—	
	Remote control			Wireless-rei	note control	
Operation	Room temperature control				er thermostat	
control	Operation display				TIMER: Yellow	
	1				ction, Overcurrent protection,	
Safety equip	oments			Frost protection, Serial signal error prote	ection, Indoor fan motor error protection,	
	Te di Control				ure control), Cooling overload protection	
	Refrigerant piping size (O.D)		mm	Liquid line: φ6.35 (1/4")	Gas line: φ 9.52 (3/8")	
	Connecting method			Flare connection	Flare connection	
Installation	Attached length of piping		m	Liquid line: 0.54 / Gas line: 0.47	_	
data	Insulation for piping				ides), independent	
	Refrigerant line (one way) leng		m		x.20	
	Vertical height diff. between O	.U. and I.U.	m	, , ,	/ Max.10 (Outdoor unit is lower)	
Duration	Drain hose			Hose connectable (VP 16)	Hole φ20 x 2 pcs	
Drain pump, max lift height		mm				
	ded breaker size		A		6	
· · ·	ed rotor ampere)		Α	`	220/ 230/ 240V)	
Interconnect	ting wires Size x Core r	number		`	ole) / Terminal block (Screw fixing type)	
IP number				IPX0	IPX4	
Standard ac					, Photocatalytic washable deodorizing filter x 1)	
Option parts			1	Interface kit (SC-BIKN2-E)	

(1) The data are measu	The pipe length is on.				
Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1
Heating (H2)	20°C	_	2°C	1°C	ISO5151-H2

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

			Model	SRK	35ZS-W	
Item			Wiodei	Indoor unit SRK35ZS-W	Outdoor unit SRC35ZS-W	
Power source	e			1 Phase, 220 - 240	OV, 50Hz / 220V, 60Hz	
	Nominal cooling capacity (rang	je)	kW	3.5 (0.9 (Mi	n.) - 4.0 (Max.))	
	Nominal heating capacity (range	ie)	kW	4.0 (0.9 (Mi	n.) - 5.0 (Max.))	
	Heating capacity (H2)		kW	<u> </u>		
		Cooling		0.89 (0	.17 - 1.24)	
	Power consumption	Heating	kW	,	.19 - 1.45)	
	·	Heating (H2)	1	,		
	Max power consumption	J J ()			1.65	
	·	Cooling			(220/ 230/ 240V)	
	Running current	Heating	Α		(220/ 230/ 240V)	
Operation	Inrush current, max current	<u> </u>	1		0/ 230/ 240V) Max. 9	
data	,	Cooling		,, (===	92	
	Power factor	Heating	%		93	
	EER	Cooling			3.93	
		Heating	1		4.26	
	COP	Heating (H2)	1		_	
		Cooling		54	61	
	Sound power level	Heating	1	56	61	
		Cooling	dB(A)	Hi: 40 Me: 30 Lo: 26 ULo: 19	50	
	Sound pressure level	Heating	GD(A)	Hi: 41 Me: 36 Lo: 25 ULo:19	48	
	Silent mode sound pressure le		1	HI. 41 We. 30 Lo. 23 OLO.19	Cooling:45 / Heating:44	
Exterior dim	ensions (Height x Width x Depth)		mm	290 x 870 x 230	540 x 780(+62) x 290	
Exterior app			111111	Fine snow (Pure white)	Stucco white	
	color : Munsell, RAL)			(8.0Y 9.3/0.1), (9003)	(4.2Y 7.5/1.1), (7044)	
Net weight			kg	9.5	34.5	
Compressor type & Quantity			19		RM-B5077SBE2(Rotary type) x 1	
Compressor motor (Starting method)			kW		0.90 (Inverter driven)	
Refrigerant oil (Amount, type)		l l	_	0.30 (DIAMOND FREEZE MB75)		
Refrigerant (Type, amount, pre-charge length)			kg	R32 0.78 in outdoor unit (Incl.	the amount for the piping of 15m)	
Heat exchanger			I Ng	Louver fins & inner grooved tubing	M fins & inner grooved tubing	
Refrigerant of	<u> </u>			· · ·	ectronic expansion valve	
Fan type & C				Tangential fan x 1	Propeller fan x 1	
	Starting method)		W	42 x1 (Direct drive)	24 x1 (Direct drive)	
r air motor (c	starting method)	Cooling		Hi: 11.3 Me: 8.7 Lo: 7.0 ULo: 5.0	31.5	
Air flow		Heating	m³/min	Hi: 12.3 Me: 11.0 Lo: 7.0 ULo: 5.6	27.8	
Available ext	ernal static pressure	Treating	Pa	0	0	
Outside air i	<u>'</u>	-	- ι α	Not possible		
	lity / Quantity			Polypropylene net (Washable) x 2		
	ration absorber	-		Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor)	
Electric heat				- Trubber sleeve (for fair frictor)	- Trubber sieeve (for fair motor & compressor)	
Licotrio ricat	Remote control			Wireless-remote control		
Operation	Room temperature control				uter thermostat	
control	Operation display				, TIMER: Yellow	
	Operation display				ection, Overcurrent protection,	
Safety equip	ments				tection, Indoor fan motor error protection,	
,					sure control), Cooling overload protection	
	Refrigerant piping size (O.D)		mm	Liquid line: φ6.35 (1/4") Gas line: φ 9.52 (3/8")	
	Connecting method			Flare connection	Flare connection	
	Attached length of piping		m	Liquid line: 0.54 / Gas line: 0.47	_	
Installation	Insulation for piping	,		·	sides), independent	
data	Refrigerant line (one way) leng	th	m		ax.20	
	Vertical height diff. between O.		m) / Max.10 (Outdoor unit is lower)	
	Drain hose			Hose connectable (VP 16) Hole φ20 x 2 pcs		
Drain pump, max lift height		mm		_		
Recommended breaker size		A		16		
	ed rotor ampere)		A	46/44/42	(220/ 230/ 240V)	
Interconnect	· · ·	umber	<u> </u>		able) / Terminal block (Screw fixing type)	
IP number	ING WILLS DIZE X DOILE II	G. 110Cl		IPX0	IPX4	
Standard ac	cessories		-		(1, Photocatalytic washable deodorizing filter x 1)	
Option parts					(SC-BIKN2-E)	
- puon parto			1	interface nit	(/	

Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1
Heating (H2)	20°C	_	2°C	1°C	ISO5151-H2

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

			Model	SRK50	0ZS-W		
Item				Indoor unit SRK50ZS-W	Outdoor unit SRC50ZS-W		
Power source	e			1 Phase, 220 - 240\	/, 50Hz / 220V, 60Hz		
	Nominal cooling capacity (rang	ge)	kW	5.0 (1.3 (Min.	.) - 5.5 (Max.))		
	Nominal heating capacity (range)		kW	5.8 (1.3 (Min.) - 6.6 (Max.))			
	Heating capacity (H2)	,	kW				
		Cooling		1.35 (0.2	29 - 1.80)		
	Power consumption	Heating	kW	1.56 (0.2	25 - 1.98)		
		Heating (H2)	1 1	-	-		
	Max power consumption			2.	68		
	. .	Cooling		6.2 / 5.9 / 5.7 (220/ 230/ 240V)		
	Running current	Heating	Α	7.2 / 6.9 / 6.6 (220/ 230/ 240V)		
Operation	Inrush current, max current		1 1	7.2 / 6.9 / 6.6 (220/ 2	230/ 240V) Max. 14.5		
data	Daniel factor	Cooling	0/	9	9		
	Power factor	Heating	%	9	9		
	EER	Cooling		3.	70		
	000	Heating	1	3.	72		
	COP	Heating (H2)	1	-	=		
	O	Cooling		59	61		
	Sound power level	Heating	1	60	63		
	0	Cooling	dB(A)	Hi: 46 Me: 36 Lo: 29 ULo: 22	51		
	Sound pressure level	Heating	1	Hi: 46 Me: 37 Lo: 31 ULo: 24	52		
	Silent mode sound pressure le	vel	1	_	Cooling:43 / Heating:45		
Exterior dim	ensions (Height x Width x Depth))	mm	290 x 870 x 230	595 x 780(+62) x 290		
Exterior app	earance			Fine snow (Pure white)	Stucco white		
(Equivalent color : Munsell, RAL)			(8.0Y 9.3/0.1), (9003)	(4.2Y 7.5/1.1), (7044)			
Net weight			kg	10.0	36.0		
Compressor type & Quantity				_	9RS102XDA21(Rotary type) x 1		
Compressor motor (Starting method)			kW	_	1.50 (Inverter driven)		
Refrigerant oil (Amount, type)			l	_	0.32 (FW50S)		
Refrigerant (Type, amount, pre-charge length)			kg	R32 1.05 in outdoor unit (Incl. th	ne amount for the piping of 15m)		
Heat exchanger			Louver fins & inner grooved tubing	M fins & inner grooved tubing			
Refrigerant of	control			Capillary tubes + Elec	tronic expansion valve		
Fan type & C				Tangential fan x 1	Propeller fan x 1		
Fan motor (S	Starting method)		W	42 x1 (Direct drive)	24 x1 (Direct drive)		
Air flow		Cooling	m³/min	Hi: 12.1 Me: 9.9 Lo: 7.4 ULo: 5.9	32.8		
		Heating		Hi: 13.9 Me: 11.2 Lo: 9.1 ULo: 7.4	32.8		
	ternal static pressure		Pa	0	0		
Outside air i				Not possible	_		
-	ality / Quantity			Polypropylene net (Washable) x 2	-		
	ration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor)		
Electric heat				_	_		
Operation	Remote control				mote control		
control	Room temperature control			1	ter thermostat		
	Operation display			· · · · · · · · · · · · · · · · · · ·	TIMER: Yellow		
Safety equip	oments			Frost protection, Serial signal error prote	ction, Overcurrent protection, ection, Indoor fan motor error protection, ure control), Cooling overload protection		
	Refrigerant piping size (O.D)		mm	Liquid line: φ6.35 (1/4")	Gas line: φ 12.7 (1/2")		
	Connecting method			Flare connection	Flare connection		
La ada II - 11	Attached length of piping		m	Liquid line: 0.54 / Gas line: 0.47			
Installation data	Insulation for piping			Necessary (Both s	ides), independent		
Juliu	Refrigerant line (one way) leng	jth	m	Max	x.25		
	Vertical height diff. between O	.U. and I.U.	m	Max.15 (Outdoor unit is higher)	/ Max.15 (Outdoor unit is lower)		
	Drain hose			Hose connectable (VP 16)	Hole φ20 x 2 pcs		
Drain pump, max lift height		mm	-	_			
Recommend	ded breaker size		А	2	0		
L.R.A. (Lock	ed rotor ampere)		Α	7.2 / 6.9 / 6.6 (220/ 230/ 240V)		
Interconnect	ting wires Size x Core n	iumber		1.5mm ² x 4 cores (Including earth cab	ole) / Terminal block (Screw fixing type)		
IP number				IPX0	IPX4		
Standard ac	cessories			Mounting kit, Clean filter (Allergen clear filter x 1	, Photocatalytic washable deodorizing filter x 1)		
Option parts	3			Interface kit (SC-BIKN2-E)		

Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7℃	6°C	ISO5151-H1
Heating (H2)	20°C	1	2°C	1°C	ISO5151-H2

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

			Model	SRK20	ZS-WB		
Item			IVIOGEI	Indoor unit SRK20ZS-WB	Outdoor unit SRC20ZS-W		
Power source	e				/, 50Hz / 220V, 60Hz		
	Nominal cooling capacity (range	je)	kW	·	.) - 2.9 (Max.))		
	Nominal heating capacity (range		kW	, ,) - 4.3 (Max.))		
	Heating capacity (H2)		kW				
		Cooling		0.44 (0.1	9 - 0.80)		
	Power consumption	Heating	kW	0.59 (0.2			
		Heating (H2)	1	_			
	Max power consumption	1		1.0	65		
	The state of the s	Cooling			220/ 230/ 240V)		
	Running current	Heating	A		220/ 230/ 240V)		
Operation	Inrush current, max current	1.1049	1	,	230/ 240V) Max. 9		
data	,	Cooling			9		
	Power factor	Heating	- %		5		
	EER	Cooling			55		
		Heating	1		58		
	COP	Heating (H2)	1		_		
		Cooling		48	56		
	Sound power level	Heating	1	50	56		
		Cooling	dB(A)	Hi: 34 Me: 25 Lo: 22 ULo: 19	45		
	Sound pressure level		-	Hi: 36 Me: 29 Lo: 23 ULo: 19	45		
	Silent mode sound pressure le	Heating		HI. 36 IVIE. 29 LO. 23 OLO. 19	Cooling:42 / Heating:43		
Exterior dim	L '		mm				
	ensions (Height x Width x Depth)	<u> </u>	mm		540 x 780(+62) x 290		
Exterior app	earance color : Munsell, RAL)			Fine snow(8.0Y 9.3/0.1), (9003) Black (4.0PB 2.44/0.25), (9011)	Stucco white (4.2Y 7.5/1.1), (7044)		
Net weight			kg	9.5	31.0		
Compressor type & Quantity			ı.g	_	RM-C5077SBE71(Rotary type) x 1		
Compressor motor (Starting method)			kW		0.75 (Inverter driven)		
			e e		0.30 (DIAMOND FREEZE MB75)		
Refrigerant oil (Amount, type)			kg	P22 0.6 in outdoor unit (Incl. th	e amount for the piping of 15m)		
Refrigerant (Type, amount, pre-charge length)			l kg	Louver fins & inner grooved tubing	M fins & inner grooved tubing		
Heat exchanger Refrigerant control					tronic expansion valve		
Fan type & C				Tangential fan x 1	Propeller fan x 1		
	Starting method)		W	42 x1 (Direct drive)	24 x1 (Direct drive)		
raii iiiotoi (c	starting metriod)	Cooling	VV	Hi: 9.3 Me: 7.0 Lo: 5.9 ULo: 5.0	27.4		
Air flow		Heating	m³/min	Hi: 10.0 Me: 8.5 Lo: 6.5 ULo: 5.9	23.6		
Available ext	ernal static pressure	rieating	Pa	0	0		
Outside air ii	<u>'</u>		ıα	Not possible			
	lity / Quantity			Polypropylene net (Washable) x 2	_		
-	ration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor)		
Electric heat				hubber sieeve (for fair filotor)			
LICOLITO HEAL	Remote control			l l			
Operation	Room temperature control			Wireless-remote control Microcomputer thermostat			
control	Operation display			·	TIMER: Yellow		
	Operation display				ction, Overcurrent protection,		
Safety equip	ments				ection, Indoor fan motor error protection,		
, ,					ure control), Cooling overload protection		
	Refrigerant piping size (O.D)		mm	Liquid line: φ6.35 (1/4")	Gas line: φ 9.52 (3/8")		
	Connecting method			Flare connection	Flare connection		
	Attached length of piping		m	Liquid line: 0.54 / Gas line: 0.47	_		
Installation	Insulation for piping	,		Necessary (Both s	ides), independent		
data	Refrigerant line (one way) leng	th	m		x.20		
	Vertical height diff. between O.		m		/ Max.10 (Outdoor unit is lower)		
	Drain hose			Hose connectable (VP 16) Hole ϕ 20 x 2 pcs			
Drain pump, max lift height		mm		—			
Recommended breaker size		А		l 6			
L.R.A. (Locked rotor ampere)			A		220/ 230/ 240V)		
Interconnect		umber			ele) / Terminal block (Screw fixing type)		
IP number	ING WILCO	a. i.bci		IPX0	IPX4		
Standard ac	cessories			Mounting kit, Clean filter (Allergen clear filter x 1	I .		
Option parts					SC-BIKN2-E)		
Option parts				Interiace Kit (OO DINIYA L J		

Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7℃	6°C	ISO5151-H1
Heating (H2)	20°C	_	2°C	1°C	ISO5151-H2

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

			Model	SRK25	ZS-WB	
Item				Indoor unit SRK25ZS-WB	Outdoor unit SRC25ZS-W	
Power source	e			1 Phase, 220 - 240\	/, 50Hz / 220V, 60Hz	
	Nominal cooling capacity (range	ge)	kW	2.5 (0.9 (Min	.) - 3.1 (Max.))	
	Nominal heating capacity (range	ge)	kW	3.2 (0.9 (Min	.) - 4.5 (Max.))	
	Heating capacity (H2)		kW	-		
		Cooling		0.62 (0.19 - 0.90)		
	Power consumption	Heating	kW	0.74 (0.2	20 - 1.42)	
	Heating (H2)			-	- -	
	Max power consumption	Max power consumption		1.	65	
	Running current	Cooling		3.3 / 3.1 / 3.0 (220/ 230/ 240V)	
	Harring current	Heating	Α	3.7 / 3.6 / 3.4 (220/ 230/ 240V)	
Operation	Inrush current, max current			3.7 / 3.6 / 3.4 (220/	230/ 240V) Max. 9	
data	Power factor	Cooling	- %	8	6	
		Heating	/0	9	0	
	EER	Cooling		4.	03	
	COP	Heating	_	4.	32	
		Heating (H2)			_	
	Sound power level	Cooling	_	50	56	
	Courta power lever	Heating		53	58	
	Sound pressure level	Cooling	dB(A)	Hi: 36 Me: 28 Lo: 23 ULo: 19	46	
	Courta procodio level	Heating		Hi: 39 Me: 30 Lo: 24 ULo: 19	46	
	Silent mode sound pressure le	evel		_	Cooling:42 / Heating:43	
	ensions (Height x Width x Depth)	mm	290 x 870 x 230	540 x 780(+62) x 290	
Exterior app				Fine snow (8.0Y 9.3/0.1), (9003)	Stucco white	
(Equivalent color : Munsell, RAL)		<u> </u>	Black (4.0PB 2.44/0.25), (9011)	(4.2Y 7.5/1.1), (7044)		
Net weight	Compressor type & Quantity		kg	9.5	31.0	
		1111	_	RM-C5077SBE71(Rotary type) x 1		
Compressor motor (Starting method)		kW	_	0.75 (Inverter driven)		
Refrigerant oil (Amount, type)		l		0.30 (DIAMOND FREEZE MB75)		
Refrigerant (Type, amount, pre-charge length)		kg	,	ne amount for the piping of 15m)		
Heat exchan	<u> </u>			Louver fins & inner grooved tubing	M fins & inner grooved tubing	
Refrigerant o					tronic expansion valve	
Fan type & C			W	Tangential fan x 1	Propeller fan x 1	
Fan motor (S	Starting method)	Cooling	VV	42 x1 (Direct drive) Hi: 9.9 Me: 8.0 Lo: 5.9 ULo: 5.0	24 x1 (Direct drive) 27.4	
Air flow			m³/min	Hi: 11.3 Me: 8.7 Lo: 6.7 ULo: 5.9	23.6	
Available ext	ternal static pressure	Heating	Pa	0	0	
Outside air ir	· · · · · · · · · · · · · · · · · · ·		Га	Not possible	_	
	ality / Quantity			Polypropylene net (Washable) x 2	_	
-	ration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor)	
Electric heat				—	—	
Liootiio noat	Remote control			Wireless-rei	note control	
Operation	Room temperature control				er thermostat	
control	Operation display				TIMER: Yellow	
	operation display				ction, Overcurrent protection,	
Safety equip	oments			l = 'a ' .	ection, Indoor fan motor error protection,	
					ure control), Cooling overload protection	
	Refrigerant piping size (O.D)		mm	Liquid line: φ6.35 (1/4")	Gas line: φ 9.52 (3/8")	
	Connecting method			Flare connection	Flare connection	
Installation	Attached length of piping		m	Liquid line: 0.54 / Gas line: 0.47	_	
data	Insulation for piping				ides), independent	
	Refrigerant line (one way) leng		m		x.20	
	Vertical height diff. between O	.U. and I.U.	m	, , ,	/ Max.10 (Outdoor unit is lower)	
	Drain hose			Hose connectable (VP 16)	Hole φ20 x 2 pcs	
Drain pump, max lift height		mm	_	_		
	ded breaker size		Α		6	
•	ed rotor ampere)		Α	`	220/ 230/ 240V)	
Interconnect	ting wires Size x Core r	number		`	ole) / Terminal block (Screw fixing type)	
IP number				IPX0	IPX4	
Standard acc					, Photocatalytic washable deodorizing filter x 1)	
Option parts				Interface kit (SC-BIKN2-E)	

Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7℃	6°C	ISO5151-H1
Heating (H2)	20°C	_	2°C	1°C	ISO5151-H2

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

			Model	SRK35	ZS-WB	
Item				Indoor unit SRK35ZS-WB	Outdoor unit SRC35ZS-W	
Power source	e			1 Phase, 220 - 240\	/, 50Hz / 220V, 60Hz	
	Nominal cooling capacity (rang	ge)	kW	3.5 (0.9 (Min	.) - 4.0 (Max.))	
	Nominal heating capacity (range	ge)	kW	4.0 (0.9 (Min	.) - 5.0 (Max.))	
	Heating capacity (H2)	,	kW			
		Cooling		0.89 (0.17 - 1.24)		
	Power consumption	Heating	kW	0.94 (0.1	9 - 1.45)	
	·	Heating (H2)	1		-	
	Max power consumption			1.	65	
	Cooling			4.4 / 4.2 / 4.0 (220/ 230/ 240V)	
	Running current	Heating	Α	4.6 / 4.4 / 4.2 (220/ 230/ 240V)	
Operation	Inrush current, max current		1	4.6 / 4.4 / 4.2 (220/	230/ 240V) Max. 9	
data	Davis factor	Cooling	0,	ç	2	
	Power factor	Heating	- %	g	3	
	EER	Cooling		3.	93	
	000	Heating	1	4.	26	
	COP	Heating (H2)	1	-	_	
		Cooling		54	61	
	Sound power level	Heating	1	56	61	
	O I I I	Cooling	dB(A)	Hi: 40 Me: 30 Lo: 26 ULo: 19	50	
	Sound pressure level	Heating	1	Hi: 41 Me: 36 Lo: 25 ULo:19	48	
	Silent mode sound pressure le	vel	1	_	Cooling:45 / Heating:44	
Exterior dim	ensions (Height x Width x Depth)	mm	290 x 870 x 230	540 x 780(+62) x 290	
Exterior app	earance			Fine snow (8.0Y 9.3/0.1), (9003)	Stucco white	
(Equivalent color : Munsell, RAL)			Black (4.0PB 2.44/0.25), (9011)	(4.2Y 7.5/1.1), (7044)		
Net weight			kg	9.5	34.5	
Compressor type & Quantity			_	RM-B5077SBE2(Rotary type) x 1		
Compressor motor (Starting method)		kW	_	0.90 (Inverter driven)		
Refrigerant oil (Amount, type)		l	_	0.30 (DIAMOND FREEZE MB75)		
Refrigerant (Type, amount, pre-charge length)		kg	R32 0.78 in outdoor unit (Incl. the	ne amount for the piping of 15m)		
Heat exchar	nger			Louver fins & inner grooved tubing	M fins & inner grooved tubing	
Refrigerant of	control			Capillary tubes + Elec	tronic expansion valve	
Fan type & C				Tangential fan x 1	Propeller fan x 1	
Fan motor (S	Starting method)		W	42 x1 (Direct drive)	24 x1 (Direct drive)	
Air flow		Cooling	m³/min	Hi: 11.3 Me: 8.7 Lo: 7.0 ULo: 5.0	31.5	
-		Heating		Hi: 12.3 Me: 11.0 Lo: 7.0 ULo: 5.6	27.8	
	ternal static pressure		Pa	0	0	
Outside air i				Not possible	_	
	ality / Quantity			Polypropylene net (Washable) x 2	-	
	ration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor)	
Electric heat				_	_	
Operation	Remote control				note control	
control	Room temperature control				er thermostat	
	Operation display				TIMER: Yellow	
Safety equip	oments			Frost protection, Serial signal error prote	ction, Overcurrent protection, ection, Indoor fan motor error protection, ure control), Cooling overload protection	
	Refrigerant piping size (O.D)		mm	Liquid line: φ6.35 (1/4")	Gas line: φ 9.52 (3/8")	
	Connecting method			Flare connection	Flare connection	
La ada II - 11	Attached length of piping		m	Liquid line: 0.54 / Gas line: 0.47		
Installation data	Insulation for piping			Necessary (Both s	ides), independent	
Juliu	Refrigerant line (one way) leng	jth	m	Max.20		
	Vertical height diff. between O	.U. and I.U.	m	Max.10 (Outdoor unit is higher)	/ Max.10 (Outdoor unit is lower)	
	Drain hose			Hose connectable (VP 16)	Hole φ20 x 2 pcs	
Drain pump, max lift height		mm	-	_		
Recommend	ded breaker size		Α		6	
L.R.A. (Lock	ed rotor ampere)		Α	4.6 / 4.4 / 4.2 (220/ 230/ 240V)	
Interconnect	ting wires Size x Core r	iumber		1.5mm ² x 4 cores (Including earth cab	ole) / Terminal block (Screw fixing type)	
IP number				IPX0	IPX4	
Standard ac	cessories			Mounting kit, Clean filter (Allergen clear filter x	, Photocatalytic washable deodorizing filter x 1)	
Option parts	3			Interface kit (SC-BIKN2-E)	

Item	Item Indoor air temperature			temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7℃	6°C	ISO5151-H1
Heating (H2)	20°C	_	2°C	1°C	ISO5151-H2

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

			Model	SF	RK50ZS-WB		
Item			IVIOUEI	Indoor unit SRK50ZS-WB	Outdoor unit SRC50ZS-W		
Power source	e				240V, 50Hz / 220V, 60Hz		
	Nominal cooling capacity (range	je)	kW	· · · · · · · · · · · · · · · · · · ·	(Min.) - 5.5 (Max.))		
	Nominal heating capacity (range		kW	,	(Min.) - 6.6 (Max.))		
	Heating capacity (H2)	, - ,	kW		_		
	Power consumption Cooling Heating Heating (H2)			1.35 (0.29 - 1.80)			
			kW		(0.25 - 1.98)		
			1 1		_		
	Max power consumption				2.68		
		Cooling		62/59/	5.7 (220/ 230/ 240V)		
	Running current	Heating	A		6.6 (220/ 230/ 240V)		
Operation	Inrush current, max current	110441119	1 1		20/ 230/ 240V) Max. 14.5		
data	,	Cooling		7.27 0.07 0.0 (2	99		
	Power factor	Heating	- %		99		
	EER	Cooling			3.70		
		Heating	1		3.72		
	COP	Heating (H2)	1		_		
		Cooling		59	61		
	Sound power level	Heating	-	60	63		
		Cooling	dB(A)	Hi: 46 Me: 36 Lo: 29 ULo: 22	51		
	Sound pressure level		ub(A)	Hi: 46 Me: 37 Lo: 31 ULo: 24	52		
	Silent mode sound pressure le	Heating		HI. 40 Me. 37 LO. 31 OLO. 24	Cooling:43 / Heating:45		
Exterior dim			mm	290 x 870 x 230			
	ensions (Height x Width x Depth)		mm		595 x 780(+62) x 290		
	Exterior appearance (Equivalent color : Munsell, RAL)			Fine snow (8.0Y 9.3/0.1), (9003) Black (4.0PB 2.44/0.25), (9011)	Stucco white (4.2Y 7.5/1.1) , (7044)		
` '	Net weight		kg	10.0	36.0		
Compressor type & Quantity		ı.g	_	9RS102XDA21(Rotary type) x 1			
Compressor motor (Starting method)		kW	_	1.50 (Inverter driven)			
Refrigerant oil (Amount, type)		e e		0.32 (FW50S)			
		kg	P22 1 05 in outdoor unit (In	cl. the amount for the piping of 15m)			
Refrigerant (Type, amount, pre-charge length) Heat exchanger		l kg	Louver fins & inner grooved tubing	M fins & inner grooved tubing			
Refrigerant of	<u> </u>				Electronic expansion valve		
Fan type & C				Tangential fan x 1	Propeller fan x 1		
	Starting method)		W	42 x1 (Direct drive)	24 x1 (Direct drive)		
raii iiiotoi (c	starting metriod)	Cooling	VV	Hi: 12.1 Me: 9.9 Lo: 7.4 ULo: 5.9	` ,		
Air flow		Heating	m³/min	Hi: 13.9 Me: 11.2 Lo: 9.1 ULo: 7.			
Available ext	ternal static pressure	rreating	Pa	0	0		
Outside air ii	· · · · · · · · · · · · · · · · · · ·		ıα	Not possible			
	lity / Quantity			Polypropylene net (Washable) x 2			
-	ration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor)		
Electric heat				Rubber sleeve (for fair filotor)	nubber sieeve (for fair friotor & compressor)		
Liectric rieat	Remote control				s-remote control		
Operation	Room temperature control				mputer thermostat		
control	Operation display				en , TIMER: Yellow		
	Operation display				rotection, Overcurrent protection,		
Safety equip	ments				protection, Indoor fan motor error protection,		
oquip	- -				ressure control), Cooling overload protection		
	Refrigerant piping size (O.D)	,	mm	Liquid line: φ6.35 (1	, ,		
	Connecting method			Flare connection	Flare connection		
	Attached length of piping		m	Liquid line: 0.54 / Gas line: 0.47	_		
Installation	Insulation for piping			·	oth sides), independent		
data	Refrigerant line (one way) leng	th	m	,	Max.25		
	Vertical height diff. between O.		m	Max.15 (Outdoor unit is hia	her) / Max.15 (Outdoor unit is lower)		
	Drain hose			Hose connectable (VP 16)	Hole ϕ 20 x 2 pcs		
Drain pump, max lift height		mm		-			
Recommended breaker size		Α		20			
	ed rotor ampere)		A	72/69/	6.6 (220/ 230/ 240V)		
Interconnect	· · ·	umber			n cable) / Terminal block (Screw fixing type)		
IP number	ING WILCO OIZE X OOIE II	G. 110Cl		IPX0	IPX4		
Standard ac	cessories			·	er x 1, Photocatalytic washable deodorizing filter x 1)		
Option parts							
Ориоп рагтѕ				Interface kit (SC-BIKN2-E)			

Item	Indoor air temperature		Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1
Heating (H2)	20°C	_	2°C	1°C	ISO5151-H2

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

			Model	SRK20	ZS-WT		
Item				Indoor unit SRK20ZS-WT	Outdoor unit SRC20ZS-W		
Power source	e			1 Phase, 220 - 240\	/, 50Hz / 220V, 60Hz		
	Nominal cooling capacity (rang	ge)	kW	2.0 (0.9 (Min.	.) - 2.9 (Max.))		
	Nominal heating capacity (rang	ge)	kW	2.7 (0.9 (Min.	.) - 4.3 (Max.))		
	Heating capacity (H2)		kW	-	_		
		Cooling		0.44 (0.19 - 0.80)			
	Power consumption	Heating	kW	0.59 (0.2	20 - 1.40)		
	Heating (H2)			-	_		
	Max power consumption			1.4	65		
	Running current Cooling			2.6 / 2.5 / 2.4 (220/ 230/ 240V)		
	Hulling Current	Heating	A	3.2 / 3.0 / 2.9 (220/ 230/ 240V)		
Operation	Inrush current, max current			3.2 / 3.0 / 2.9 (220/	230/ 240V) Max. 9		
data	Power factor	Cooling	- %		9		
		Heating	/*		5		
	EER	Cooling	1		55		
	COP	Heating]	4.:	58		
		Heating (H2)			_		
	Sound power level	Cooling		48	56		
		Heating		50	56		
	Sound pressure level	Cooling	dB(A)	Hi: 34 Me: 25 Lo: 22 ULo: 19	45		
	·	Heating	-	Hi: 36 Me: 29 Lo: 23 ULo: 19	45		
	Silent mode sound pressure le			_	Cooling:43 / Heating:45		
	ensions (Height x Width x Depth))	mm	290 x 870 x 230	540 x 780(+62) x 290		
Exterior app				Titanium gray (1.6Y 6.59/0.63), (7048) Black (4.0PB 2.44/0.25), (9011)	Stucco white		
Net weight	color : Munsell, RAL)		ka	9.5	(4.2Y 7.5/1.1), (7044) 31.0		
,	Compressor type & Quantity		kg	-	9RS102XDA21(Rotary type) x 1		
Compressor motor (Starting method)		kW		1.50 (Inverter driven)			
Refrigerant oil (Amount, type)		l l		0.32 (FW50S)			
Refrigerant (Type, amount, pre-charge length)		kg	R32 0.62 in outdoor unit (Incl. th	` '			
Heat exchanger		l kg	0	M fins & inner grooved tubing			
Refrigerant of	<u> </u>			-	tronic expansion valve		
Fan type & C				Tangential fan x 1	Propeller fan x 1		
	Starting method)		W	42 x1 (Direct drive)	24 x1 (Direct drive)		
	<u> </u>	Cooling		Hi: 9.3 Me: 7.0 Lo: 5.9 ULo: 5.0	27.4		
Air flow		Heating	m³/min	Hi: 10.0 Me: 8.5 Lo: 6.5 ULo: 5.9	23.6		
Available ext	ternal static pressure		Pa	0	0		
Outside air i	· · · · · · · · · · · · · · · · · · ·			Not possible	_		
Air filter, Qua	ality / Quantity			Polypropylene net (Washable) x 2	_		
Shock & vibr	ration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor)		
Electric heat	er			_	_		
On aug !!	Remote control			Wireless-rer	mote control		
Operation control	Room temperature control			Microcomput	er thermostat		
501100	Operation display			RUN: Green ,			
Safety equip	oments			Frost protection, Serial signal error prote	ction, Overcurrent protection, ection, Indoor fan motor error protection, ure control), Cooling overload protection		
	Refrigerant piping size (O.D)		mm	Liquid line: φ6.35 (1/4")	Gas line: φ 9.52 (3/8")		
	Connecting method			Flare connection	Flare connection		
Install-4!	Attached length of piping		m	Liquid line: 0.54 / Gas line: 0.47	_		
Installation data	Insulation for piping			Necessary (Both s	ides), independent		
	Refrigerant line (one way) leng		m	Max.20			
Vertical height diff. between		.U. and I.U.	m	Max.10 (Outdoor unit is higher)	/ Max.10 (Outdoor unit is lower)		
	Drain hose			Hose connectable (VP 16)	Hole φ20 x 2 pcs		
Drain pump, max lift height		mm	_	_			
	ded breaker size		Α		6		
•	ed rotor ampere)		Α	3.2 / 3.0 / 2.9 (· · · · · · · · · · · · · · · · · · ·		
Interconnect	ing wires Size x Core n	iumber		, ,	le) / Terminal block (Screw fixing type)		
IP number				IPX0	IPX4		
Standard ac					, Photocatalytic washable deodorizing filter x 1)		
Option parts				Intertace kit (SC-BIKN2-E)		

Item	Indoor air temperature		Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1
Heating (H2)	20°C	_	2°C	1°C	ISO5151-H2

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

			Model	SRK25	ZS-WT	
Item			Wiodei	Indoor unit SRK25ZS-WT	Outdoor unit SRC25ZS-W	
Power source	e				/, 50Hz / 220V, 60Hz	
	Nominal cooling capacity (range	je)	kW	2.5 (0.9 (Min.		
	Nominal heating capacity (range		kW	, ,) - 4.5 (Max.))	
	Heating capacity (H2)	,-,	kW	-	_	
	Cooling			0.62 (0.19 - 0.90)		
	Power consumption	Heating	kW	0.74 (0.2		
	Heating (H2		1		=	
	Max power consumption	1		1.0	65	
		Cooling			220/ 230/ 240V)	
	Running current	Heating	A	,	220/ 230/ 240V)	
Operation	Inrush current, max current	1.10419	1	3.7 / 3.6 / 3.4 (220/		
data	,	Cooling		8		
	Power factor	Heating	%	9		
	EER	Cooling		4.1		
		Heating	1		32	
	COP	Heating (H2)	1		_	
		Cooling		50	56	
	Sound power level	Heating	1	53	58	
		Cooling	dB(A)	Hi: 36 Me: 28 Lo: 23 ULo: 19	46	
	Sound pressure level		ub(A)		46	
	Silent mode sound pressure le	Heating	-	Hi: 39 Me: 30 Lo: 24 ULo: 19	Cooling:42 / Heating:43	
Cutaviau dina					· · · · · · · · · · · · · · · · · · ·	
	ensions (Height x Width x Depth)		mm		540 x 780(+62) x 290	
Exterior app	earance color : Munsell, RAL)			Titanium gray (1.6Y 6.59/0.63), (7048) Black (4.0PB 2.44/0.25), (9011)	Stucco white (4.2Y 7.5/1.1), (7044)	
` '	Net weight		kg	9.5	31.0	
Compressor type & Quantity		i ng	_	RM-C5077SBE71(Rotary type)		
Compressor motor (Starting method)		kW		0.75 (Inverter driven)		
Refrigerant oil (Amount, type)		l l		0.30 (DIAMOND FREEZE MB75)		
		kg	R32 0.62 in outdoor unit (Incl. th			
Refrigerant (Type, amount, pre-charge length) Heat exchanger		l kg	Louver fins & inner grooved tubing	M fins & inner grooved tubing		
Refrigerant of	<u> </u>			Capillary tubes + Elect		
Fan type & C				Tangential fan x 1	Propeller fan x 1	
	Starting method)		W	42 x1 (Direct drive)	24 x1 (Direct drive)	
r air motor (c	starting metriod)	Cooling	V V	Hi: 9.9 Me: 8.0 Lo: 5.9 ULo: 5.0	27.4	
Air flow		Heating	m³/min	Hi: 11.3 Me: 8.7 Lo: 6.7 ULo: 5.9	23.6	
Available ext	ternal static pressure	rreating	Pa	0	0	
Outside air ii	· · · · · · · · · · · · · · · · · · ·		ı a	Not possible	_	
	lity / Quantity			Polypropylene net (Washable) x 2	_	
-	ration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor)	
Electric heat				hubber sieeve (for fait filotor)		
Liectific fleat	Remote control			Wireless-rer		
Operation	Room temperature control			Microcomput		
control	Operation display			·	TIMER: Yellow	
	Operation display				ction, Overcurrent protection,	
Safety equip	ments			Frost protection, Serial signal error prote		
7 - 100					ure control), Cooling overload protection	
	Refrigerant piping size (O.D)		mm	Liquid line: φ6.35 (1/4")	Gas line: φ 9.52 (3/8")	
	Connecting method			Flare connection	Flare connection	
	Attached length of piping		m	Liquid line: 0.54 / Gas line: 0.47	_	
Installation	Insulation for piping	,		Necessary (Both s	ides), independent	
data	Refrigerant line (one way) leng	th	m	Max		
	Vertical height diff. between O.		m	Max.10 (Outdoor unit is higher)		
Drain hose				Hose connectable (VP 16)	Hole φ20 x 2 pcs	
Drain pump, max lift height		mm		—		
Recommended breaker size		A	1	6		
	ed rotor ampere)		A		220/ 230/ 240V)	
Interconnect	· · ·	umber	<u> </u>		ele) / Terminal block (Screw fixing type)	
IP number	ING WILCO OIZE X OOIE II	G. 110Cl		IPX0	IPX4	
Standard ac	cessories		-	Mounting kit, Clean filter (Allergen clear filter x 1	I .	
Option parts				Interface kit (
Sparon parts				interiace kit (

Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7℃	6°C	ISO5151-H1
Heating (H2)	20°C	1	2°C	1°C	ISO5151-H2

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

			Model	SRK35	ZS-WT		
Item				Indoor unit SRK35ZS-WT	Outdoor unit SRC35ZS-W		
Power source	ce			1 Phase, 220 - 240V	/, 50Hz / 220V, 60Hz		
	Nominal cooling capacity (rang	ge)	kW	3.5 (0.9 (Min.) - 4.0 (Max.))		
	Nominal heating capacity (rang	ge)	kW	4.0 (0.9 (Min.) - 5.0 (Max.))		
	Heating capacity (H2)		kW	-	-		
		Cooling		0.89 (0.17 - 1.24)			
	Power consumption	Heating	kW	0.94 (0.1	9 - 1.45)		
		Heating (H2)	1	-	-		
	Max power consumption			1.6	65		
	Cooling			4.4 / 4.2 / 4.0 (2	220/ 230/ 240V)		
	Running current	Heating	Α	4.6 / 4.4 / 4.2 (2	220/ 230/ 240V)		
Operation	Inrush current, max current	•	1	4.6 / 4.4 / 4.2 (220/	230/ 240 V) Max. 9		
data	Power factor	Cooling	- %	9	2		
	Power factor	Heating	70	9	3		
	EER	Cooling		3.9	93		
	COP	Heating]	4.2	26		
	COP	Heating (H2)]	-	_		
	Sound power level	Cooling		54	61		
	Souria power lever	Heating		56	61		
	Sound programs lovel	Cooling	dB(A)	Hi: 40 Me: 30 Lo: 26 ULo: 19	50		
	Sound pressure level	Heating	1 1	Hi: 41 Me: 36 Lo: 25 ULo:19	48		
	Silent mode sound pressure le	vel]	-	Cooling:45 / Heating:44		
Exterior dim	ensions (Height x Width x Depth))	mm	290 x 870 x 230	540 x 780(+62) x 290		
Exterior app				Titanium gray (1.6Y 6.59/0.63), (7048)	Stucco white		
(Equivalent color : Munsell, RAL)			Black (4.0PB 2.44/0.25) , (9011)	(4.2Y 7.5/1.1) , (7044)			
Net weight		kg	9.5	34.5			
Compressor type & Quantity			_	RM-B5077SBE2(Rotary type) x 1			
Compressor motor (Starting method)		kW	_	0.90 (Inverter driven)			
Refrigerant oil (Amount, type)		l	_	0.30 (DIAMOND FREEZE MB75)			
Refrigerant (Type, amount, pre-charge length)		kg	R32 0.78 in outdoor unit (Incl. th	e amount for the piping of 15m)			
Heat exchar	nger			Louver fins & inner grooved tubing	M fins & inner grooved tubing		
Refrigerant of	control			Capillary tubes + Elect	tronic expansion valve		
Fan type & 0				Tangential fan x 1	Propeller fan x 1		
Fan motor (S	Starting method)		W	42 x1 (Direct drive)	24 x1 (Direct drive)		
Air flow		Cooling	m³/min	Hi: 11.3 Me: 8.7 Lo: 7.0 ULo: 5.0	31.5		
7 111 110 11		Heating	,	Hi: 12.3 Me: 11.0 Lo: 7.0 ULo: 5.6	27.8		
Available ex	ternal static pressure		Pa	0	0		
Outside air i				Not possible	_		
	ality / Quantity			Polypropylene net (Washable) x 2	_		
	ration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor)		
Electric heat							
Operation	Remote control			Wireless-rer			
control	Room temperature control			Microcomput			
	Operation display			RUN: Green ,			
Safety equip	oments			Compressor overheat protec Frost protection, Serial signal error prote Heating overload protection(High pressu	ection, Indoor fan motor error protection,		
	Refrigerant piping size (O.D)		mm	Liquid line: φ6.35 (1/4")	Gas line: φ 9.52 (3/8")		
	Connecting method			Flare connection	Flare connection		
	Attached length of piping		m	Liquid line: 0.54 / Gas line: 0.47	_		
Installation data	Insulation for piping			Necessary (Both sides), independent			
uaia	Refrigerant line (one way) leng	ıth	m	Max.20			
	Vertical height diff. between O.		m	Max.10 (Outdoor unit is higher) / Max.10 (Outdoor unit is lower)			
	Drain hose			Hose connectable (VP 16)	Hole φ20 x 2 pcs		
Drain pump, max lift height		mm	_ ` `	-			
Recommended breaker size		Α	1	6			
L.R.A. (Lock	ed rotor ampere)		Α	4.6 / 4.4 / 4.2 (2	220/ 230/ 240 V)		
Interconnect	· · · · ·	umber			le) / Terminal block (Screw fixing type)		
IP number	- 1			IPX0	IPX4		
Standard ac	cessories			Mounting kit, Clean filter (Allergen clear filter x 1	, Photocatalytic washable deodorizing filter x 1)		
Option parts				Interface kit (
Option parts			`				

Item	Item Indoor air temperature			temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7℃	6°C	ISO5151-H1
Heating (H2)	20°C	_	2°C	1°C	ISO5151-H2

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

			Model	SRK50	ZS-WT
Item				Indoor unit SRK50ZS-WT	Outdoor unit SRC50ZS-W
Power source	e			1 Phase, 220 - 240\	/, 50Hz / 220V, 60Hz
	Nominal cooling capacity (rang	ge)	kW	5.0 (1.3 (Min.	.) - 5.5 (Max.))
	Nominal heating capacity (rang	ge)	kW	5.8 (1.3 (Min.) - 6.6 (Max.))
	Heating capacity (H2)		kW	-	_
	Power consumption Cooling Heating			1.35 (0.2	9 - 1.80)
			kW	1.56 (0.2	25 - 1.98)
		Heating (H2)	1	-	_
	Max power consumption	•		2.	68
	Dunning automat	Cooling		6.2 / 5.9 / 5.7 (220/ 230/ 240V)
	Running current	Heating	A	7.2 / 6.9 / 6.6 (220/ 230/ 240V)
Operation	Inrush current, max current]	7.2 / 6.9 / 6.6 (220/ 2	230/ 240V) Max. 14.5
data	Power factor	Cooling	- %	9	9
	1 Owel factor	Heating	/0	9	9
	EER	Cooling		3.	70
	COP	Heating		3.	72
	001	Heating (H2)		-	_
	Sound power level	Cooling		59	61
	Souria power level	Heating		60	63
	Sound pressure level	Cooling	dB(A)	Hi: 46 Me: 36 Lo: 29 ULo: 22	51
	Courta pressure level	Heating		Hi: 46 Me: 37 Lo: 31 ULo: 24	52
	Silent mode sound pressure le	vel		_	Cooling:45 / Heating:44
Exterior dim	ensions (Height x Width x Depth))	mm	290 x 870 x 230	595 x 780(+62) x 290
Exterior app				Titanium gray (1.6Y 6.59/0.63), (7048)	Stucco white
` '	color : Munsell, RAL)			Black (4.0PB 2.44/0.25), (9011)	(4.2Y 7.5/1.1), (7044)
Net weight			kg	10.0	36.0
<u> </u>	type & Quantity			_	9RS102XDA21(Rotary type) x 1
	motor (Starting method)		kW	_	1.50 (Inverter driven)
	oil (Amount, type)		l		0.32 (FW50S)
	Type, amount, pre-charge length	1)	kg	R32 1.05 in outdoor unit (Incl. th	
Heat exchar	<u> </u>			Louver fins & inner grooved tubing	M fins & inner grooved tubing
Refrigerant of					tronic expansion valve
Fan type & C			147	Tangential fan x 1	Propeller fan x 1
Fan motor (S	Starting method)	0 11	W	42 x1 (Direct drive)	24 x1 (Direct drive)
Air flow		Cooling	m³/min	Hi: 12.1 Me: 9.9 Lo: 7.4 ULo: 5.9	32.8
Aveilable eve	town all atatic was assure	Heating	Pa	Hi: 13.9 Me: 11.2 Lo: 9.1 ULo: 7.4	32.8 0
	ternal static pressure		Ра	-	_
Outside air i	ality / Quantity			Not possible Polypropylene net (Washable) x 2	_
	ration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor)
Electric heat				hubber sleeve (for fail filotor)	hubber sleeve (for fail filotor & compressor)
Electric fleat	Remote control			- Wireless rer	mete control
Operation	Room temperature control			Wireless-remote control Microcomputer thermostat	
control	Operation display			RUN: Green ,	
	Operation display				ction, Overcurrent protection,
Safety equip	oments			Frost protection, Serial signal error prote	
	Refrigerant piping size (O.D)		mm	Liquid line: φ6.35 (1/4")	Gas line: φ 12.7 (1/2")
	Connecting method			Flare connection	Flare connection
	Attached length of piping		m	Liquid line: 0.54 / Gas line: 0.47	_
Installation data	Insulation for piping			Necessary (Both s	ides), independent
uala	Refrigerant line (one way) leng	jth	m	Max	x.25
	Vertical height diff. between O.		m	Max.15 (Outdoor unit is higher)	/ Max.15 (Outdoor unit is lower)
	Drain hose			Hose connectable (VP 16)	Hole φ20 x 2 pcs
Drain pump,	max lift height		mm	_ ` _	<u> </u>
Recommend	ded breaker size		Α	1	6
L.R.A. (Lock	ed rotor ampere)		Α	7.2 / 6.9 / 6.6 (220/ 230/ 240V)
Interconnect	ting wires Size x Core n	iumber		1.5mm ² x 4 cores (Including earth cab	le) / Terminal block (Screw fixing type)
IP number				IPX0	IPX4
Standard ac	cessories			Mounting kit, Clean filter (Allergen clear filter x 1	, Photocatalytic washable deodorizing filter x 1)
Option parts	<u> </u>			Interface kit (SC-BIKN2-E)

Item	Indoor air t	emperature	Outdoor air	temperature	Standards	
Operation	DB	WB	DB	WB	Standards	
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1	
Heating	20°C	_	7°C	6°C	ISO5151-H1	
Heating (H2)	20°C	_	2°C	1°C	ISO5151-H2	

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

Packing material weight list

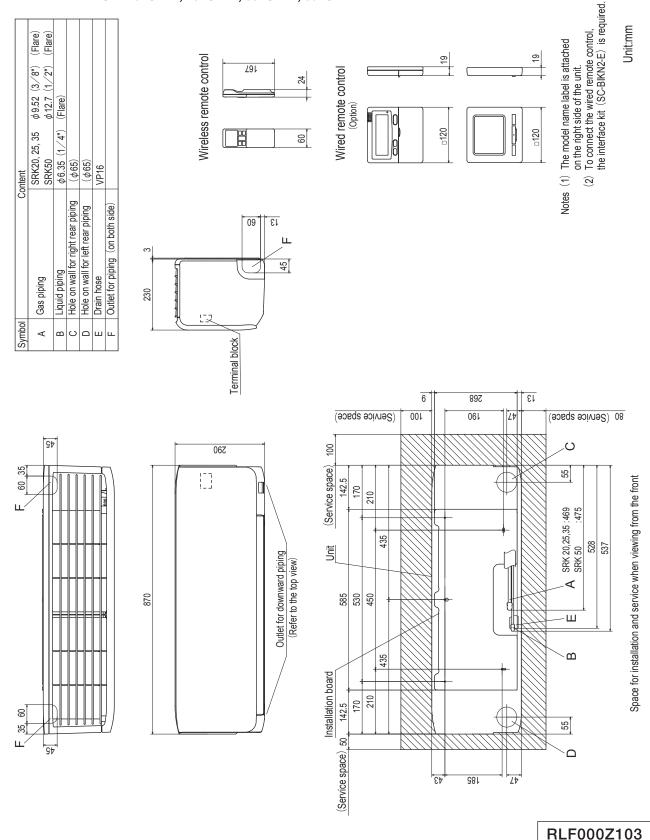
Unit: kg

	Matarial		Deeldes				140	±=1		Omit ng
Model	Material	Gross Weight	Packing Parts weight (Total)	Glass	Plastic	Paper and board	Aluminium	Steel	Wood	Other
	SRK20ZS-W	11.5	1.21	0.00	0.33	0.88	0.00	0.00	0.00	0.00
	SRK25ZS-W	11.5	1.21	0.00	0.33	0.88	0.00	0.00	0.00	0.00
	SRK35ZS-W	11.5	1.21	0.00	0.33	0.88	0.00	0.00	0.00	0.00
	SRK50ZS-W	12.0	1.21	0.00	0.33	0.88	0.00	0.00	0.00	0.00
	SRK20ZS-WB	11.5	1.21	0.00	0.33	0.88	0.00	0.00	0.00	0.00
Indoor	SRK25ZS-WB	11.5	1.21	0.00	0.33	0.88	0.00	0.00	0.00	0.00
Indoor	SRK35ZS-WB	11.5	1.21	0.00	0.33	0.88	0.00	0.00	0.00	0.00
	SRK50ZS-WB	12.0	1.21	0.00	0.33	0.88	0.00	0.00	0.00	0.00
	SRK20ZS-WT	11.5	1.21	0.00	0.33	0.88	0.00	0.00	0.00	0.00
	SRK25ZS-WT	11.5	1.21	0.00	0.33	0.88	0.00	0.00	0.00	0.00
	SRK35ZS-WT	11.5	1.21	0.00	0.33	0.88	0.00	0.00	0.00	0.00
	SRK50ZS-WT	12.0	1.21	0.00	0.33	0.88	0.00	0.00	0.00	0.00
	SRC20ZS-W	32.5	2.04	0.00	0.35	1.69	0.00	0.00	0.00	0.00
Outdoor	SRC25ZS-W	32.5	2.04	0.00	0.35	1.69	0.00	0.00	0.00	0.00
Outdoor	SRC35ZS-W	36.0	2.04	0.00	0.35	1.69	0.00	0.00	0.00	0.00
	SRC50ZS-W	38.0	2.13	0.00	0.35	1.78	0.00	0.00	0.00	0.00

2. EXTERIOR DIMENSIONS

(1) Indoor units

Models SRK20ZS-W, 25ZS-W, 35ZS-W, 50ZS-W SRK20ZS-WB, 25ZS-WB, 35ZS-WB, 50ZS-WB SRK20ZS-WT, 25ZS-WT, 35ZS-WT, 50ZS-WT



(2) Outdoor units

Models SRC20ZS-W, 25ZS-W, 35ZS-W

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. protrude more than 15mm.

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.

 $\widehat{\mathfrak{S}}$

The wall height on the outlet side should be 1200mm or less. The model name label is attached on the right side of the unit.

Leave 200mm or more space above the unit.

<u>4</u> 0 0

 \Box √ Inlet 슬블

Installation space	280 or more	100 or more	80 or more	250 or more
/	7	L2	L3	L4

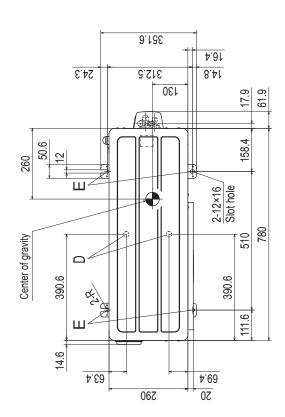
Terminal block	O 40° 4	138.4
	Ω	

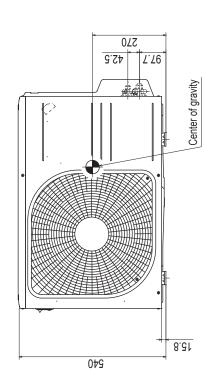
Notes

Content	
Service valve connection (gas side)	ϕ 9.52 (3/8") (Flare)
Service valve connection (liquid side)	ϕ 6.35 (1/4") (Flare)
Pipe / cable draw-out hole	
Drain discharge hole	φ20×2 places
Anchor bolt hole	M10-12×4 places

ပ ш

В ⋖





RCV000Z036

Unit:mm

Model SRC50ZS-W

The unit must not be surrounded by walls on the four sides. The unit must be fixed with anchor bolts. An anchor bolt must not
protrude more than 15mm.

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

 $\widehat{\mathfrak{S}}$

outlet gets perpendicular to the wind direction.

Leave 200mm or more space above the unit.

The model name label is attached on the right side of the unit. The wall height on the outlet side should be 1200mm or less.

<u>4</u> (3) (6)

✓ Inlet

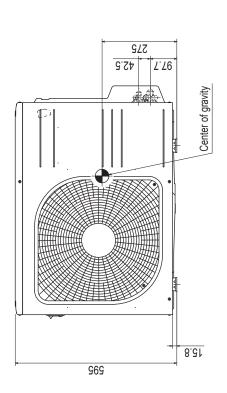
Installation space	280 or more	100 or more	80 or more	250 or more
//	П	L2	F3	L4

40° Terminal block 40° 33.5 138.4

2 (2)

O	
z	
_	

						1
						3.138
	(Flare)	(Flare)		ses	ses	312.5
	φ 12.7 (1/2")	(1/4")		♦ 20×2 places	M10-12×4 places	
	φ 12.7	φ6.35 (1/4")		φ	M10	270 20.6
Content	(gas side)	Service valve connection (liquid side)				ш
	Service valve connection (gas side)	onnection	Pipe / cable draw-out hole	e hole	a)	Center of gravity 390.6
	ice valve c	ice valve c	/cable dra	Drain discharge hole	Anchor bolt hole	390.6 390.6
	Serv	Serv	Pipe	Drair	Anch	ш
Symbol	А	В	၁	۵	ш	4.69
						V 69



RCV000Z037

⊅.69

50

580

4.91 14.8

> 17.9 61.9

158.4

780 510

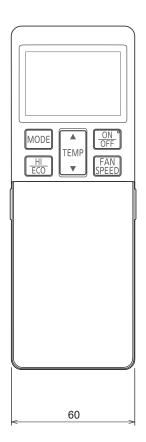
2-12×16 / Slot hole

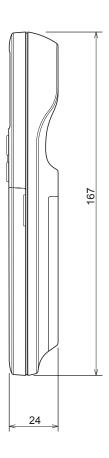
390.6

111.6

(3) Remote control (a) Wireless remote control

Unit: mm

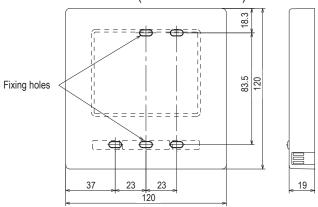




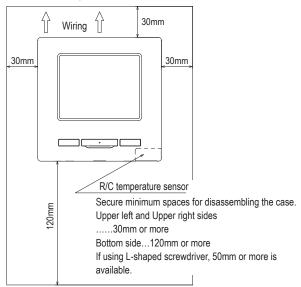
(b) Wired remote control (Option parts)Interface kit (SC-BIKN2-E) is required to use the wired remote control.

Model RC-EX3A

Dimensions (Viewed from front)



Installation space



• Do not install the remote control at following places.

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

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

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

The influences transmitted from the remote control to medical or communication equipment could

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

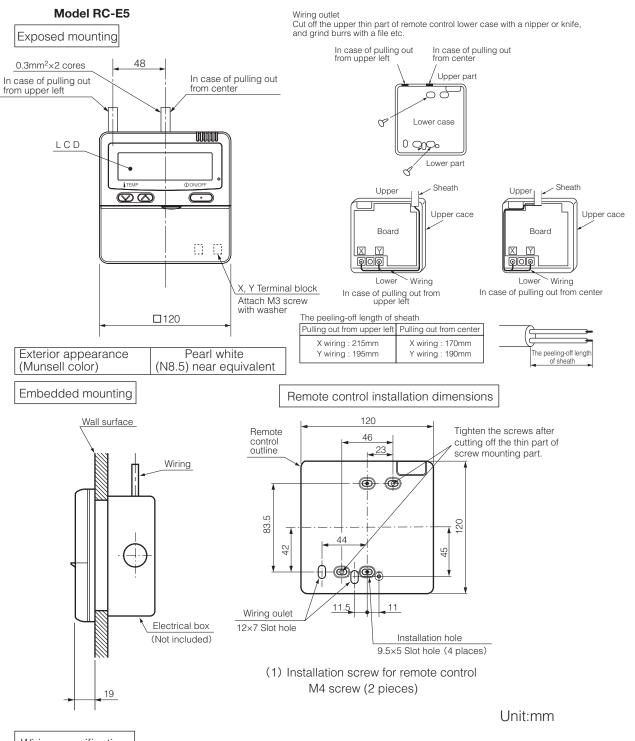
R/C cable:0.3mm²x2 cores

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

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

Adapted RoHS directive

PJZ000Z333



Wiring specifications

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

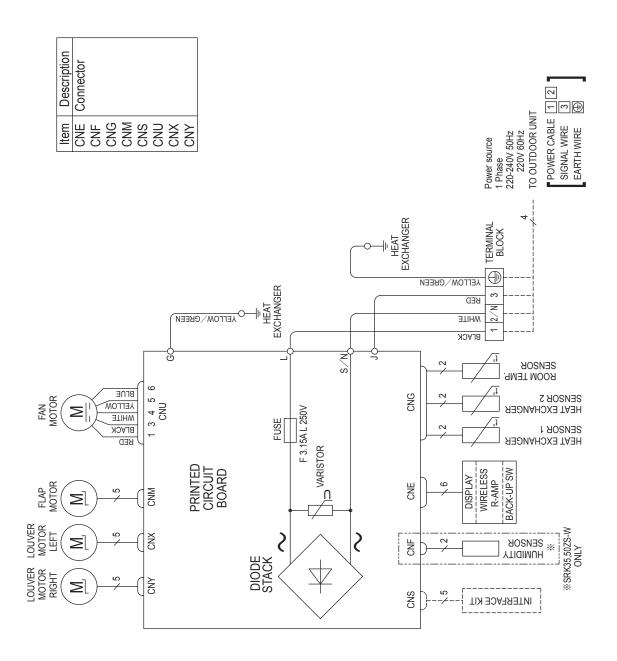
Length	Wiring thickness			
100 to 200m	0.5mm ² ×2 cores			
Under 300m	0.75mm ² ×2 cores			
Under 400m	1.25mm ² ×2 cores			
Under 600m	2.0mm ² ×2 cores			

PJZ000Z295

3. ELECTRICAL WIRING

(1) Indoor units

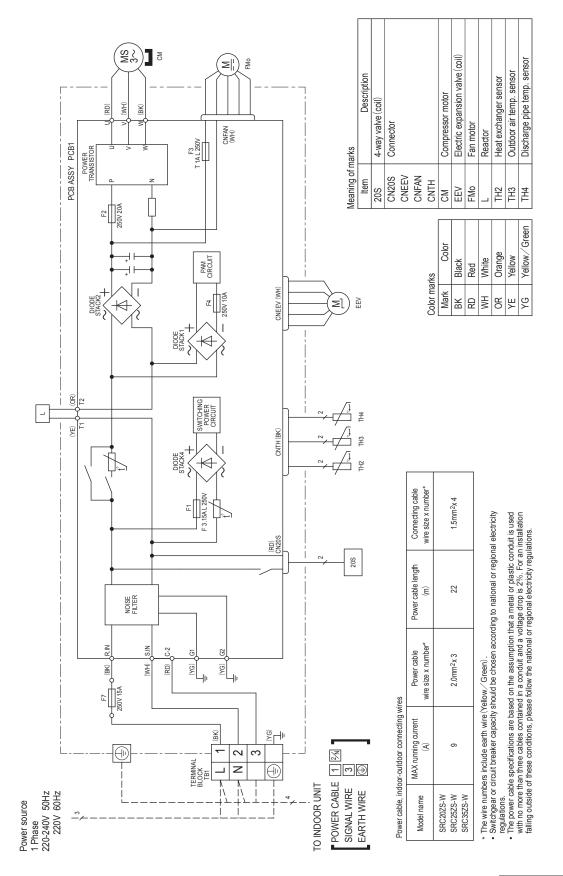
Models SRK20ZS-W, 25ZS-W, 35ZS-W, 50ZS-W SRK20ZS-WB, 25ZS-WB, 35ZS-WB, 50ZS-WB SRK20ZS-WT, 25ZS-WT, 35ZS-WT, 50ZS-WT



RWA000Z416

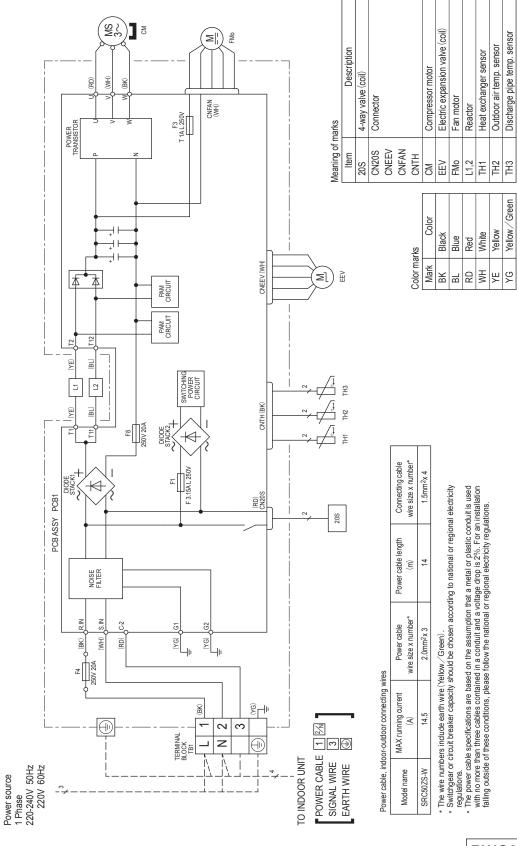
(2) Outdoor units

Models SRC20ZS-W, 25ZS-W, 35ZS-W



RWC000Z315

Model SRC50ZS-W



RWC000Z316

4. NOISE LEVEL

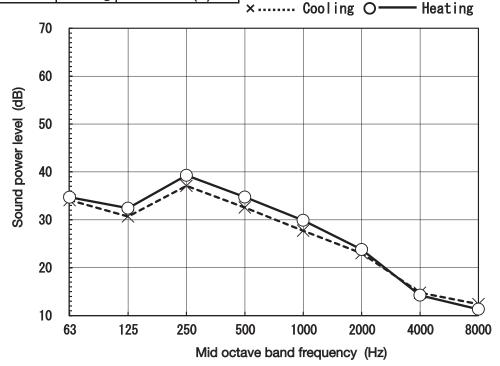
(1) Sound power level Model SRK20ZS-W, -WB, -WT

 Model
 SRK20ZS-W,WB,WT

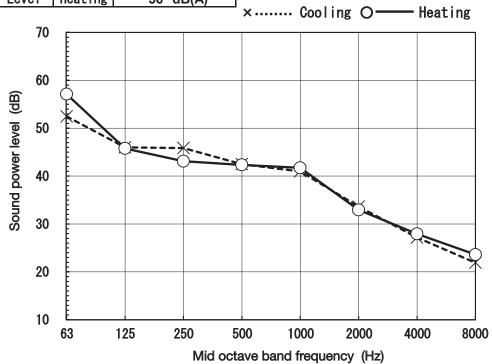
 Noise
 Cooling
 48 dB(A)

 Level
 Heating
 50 dB(A)

Condition	IS05151 T1/H1
MODE	Rated capacity value

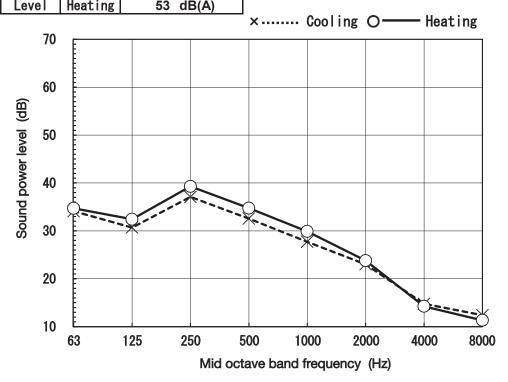


(Calado) alli c/		
Model	SRC20ZS-W	
Noise	Cooling	56 dB(A)
امريوا	Heating	56 dR(A)

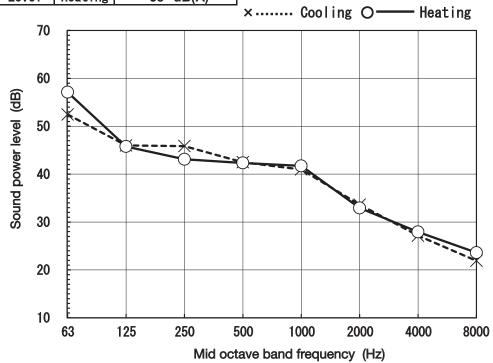


	(Indoor	unit)		
I	Model	SRK	25ZS-W,V	VB,WT
I	Noise	Cooling	50	dB(A)
ı	امييما	Heating	EO	AD/A)

Condition	IS05151 T1/H1
MODE	Pated capacity value

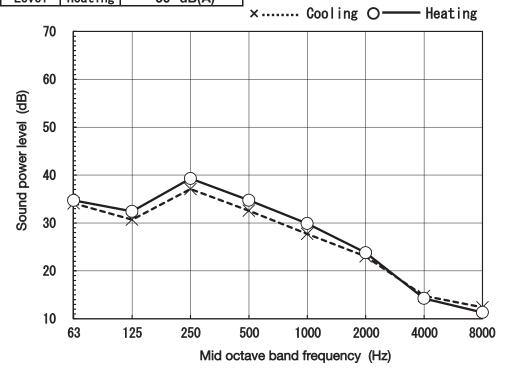


(000000	(00.0000: 0)		
Model	SRC25ZS-W		
Noise	Cooling	56 dB(A)	
Level	Heating	58 dB(A)	

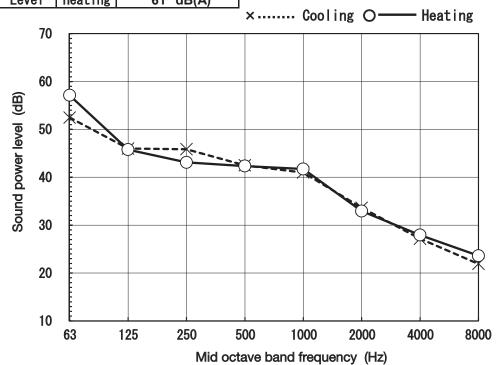


(Indoor	unit)		
Model	SRK	35ZS-W,V	VB,WT
Noise	Cooling	54	dB(A)
Level	Heating	56	dR(A)

Condition	ISO5151 T1/H1
MODE	Rated capacity value

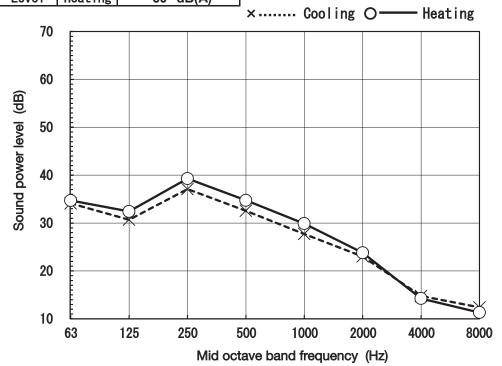


(outdoor difft)		
Model	9	RC35ZS-W
Noise	Cooling	61 dB(A)
Lovol	Hooting	61 AB(A)

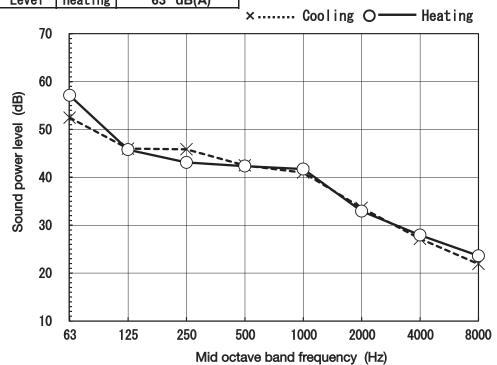


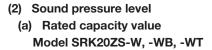
	(Indoor	unit)		
I	Model	SRK	50ZS-W,WB,WT	
I	Noise	Cooling	59 dB(A)	_
ı	Level	Heating	60 dB(A)	_

Condition	IS05151 T1/H1
MODE	Rated capacity value



(outdoor diffe)		
Model	9	RC50ZS-W
Noise	Cooling	61 dB(A)
Lovol	Hooting	63 4D(V)



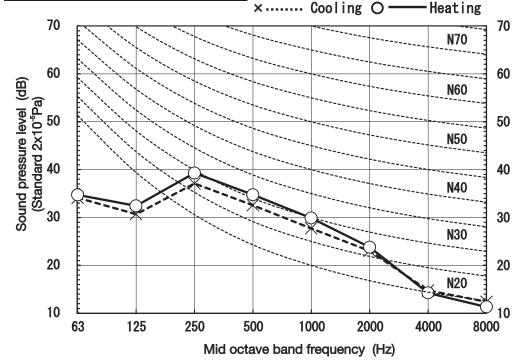


Condition ISO5151 T1/H1

MODE Rated capacity value

<u>(Indoor</u>	unit)	
Model	SRK	20ZS-W,WB,WT
Noise	Cooling	34 dB(A)
Level	Heating	36 dB(A)

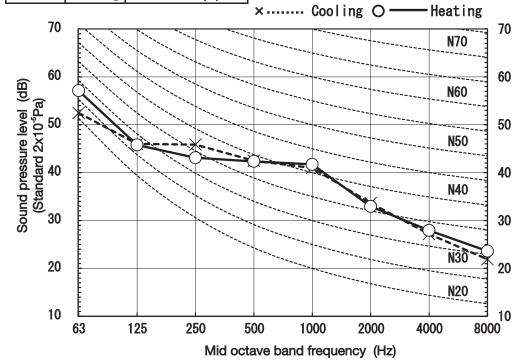




(Outdoor unit)

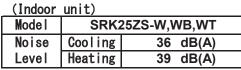
Model	SRC20ZS-W		
Noise	Cooling	45 dB(A)	
Level	Heating	45 dB(A)	

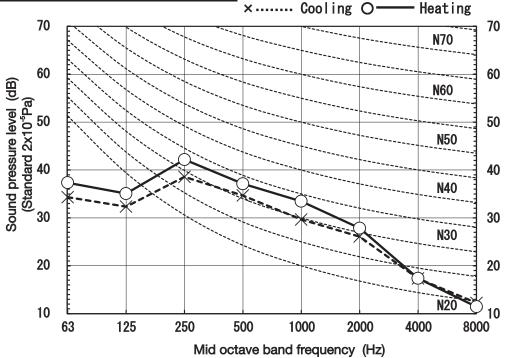
 Mike position: at highest noise level in position as mentioned below Distance from front side 1m



Model SRK25ZS-W, -WB, -WT

Condition	IS05151 T1/H1
MODE	Rated capacity value
●Mike position	

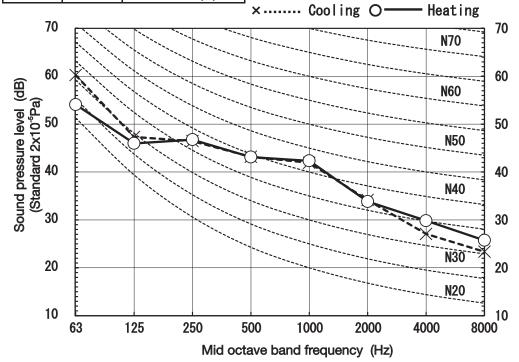




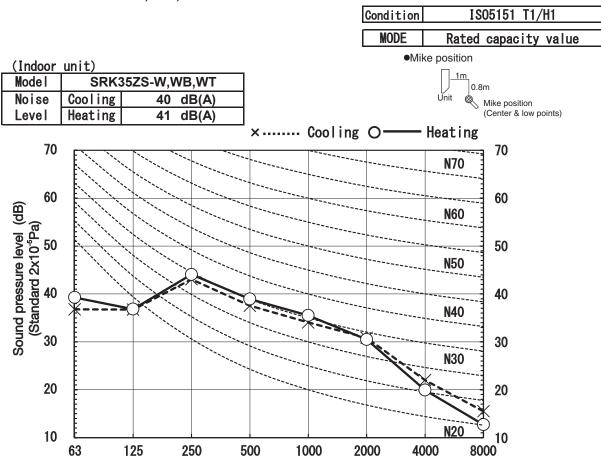
(Outdoor unit)

Model	SRC25ZS-W	
Noise	Cooling	46 dB(A)
Level	Heating	46 dB(A)

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



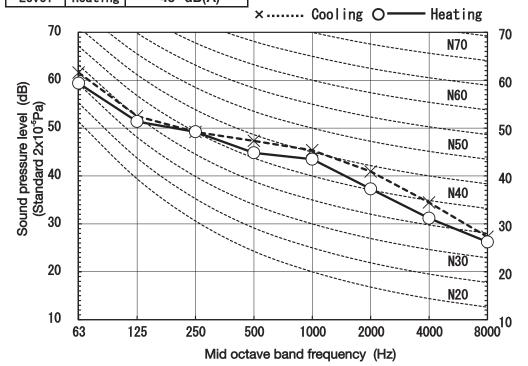
Model SRK35ZS-W, -WB, -WT



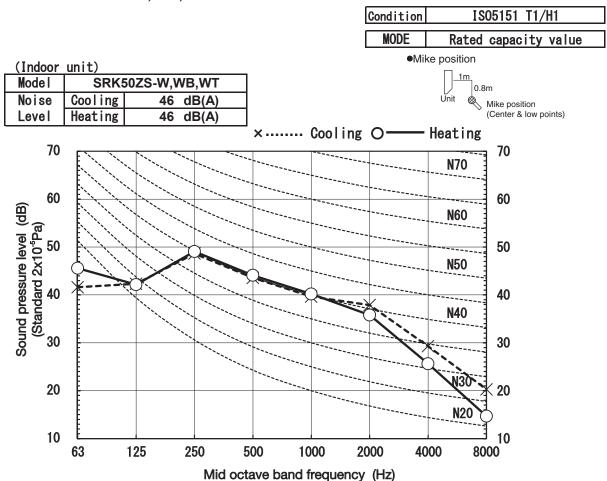
(Outdoor unit)

Mode I	SRC35ZS-W		 Mike position: at highest noise level in position as mentioned below Distance from front side 1m
Noise	Cooling	50 dB(A)	Distance from front side fill
Level	Heating	48 dB(A)]

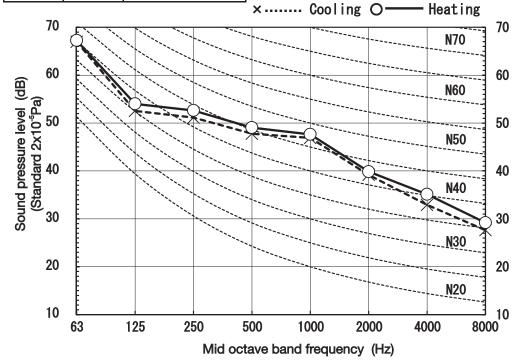
Mid octave band frequency (Hz)



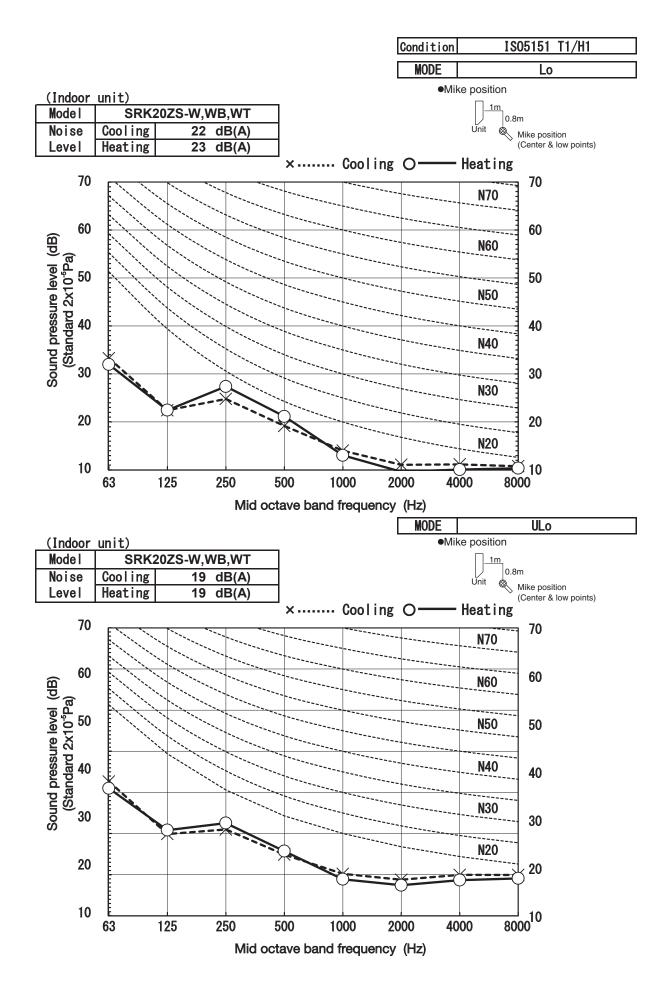
Model SRK50ZS-W, -WB, -WT

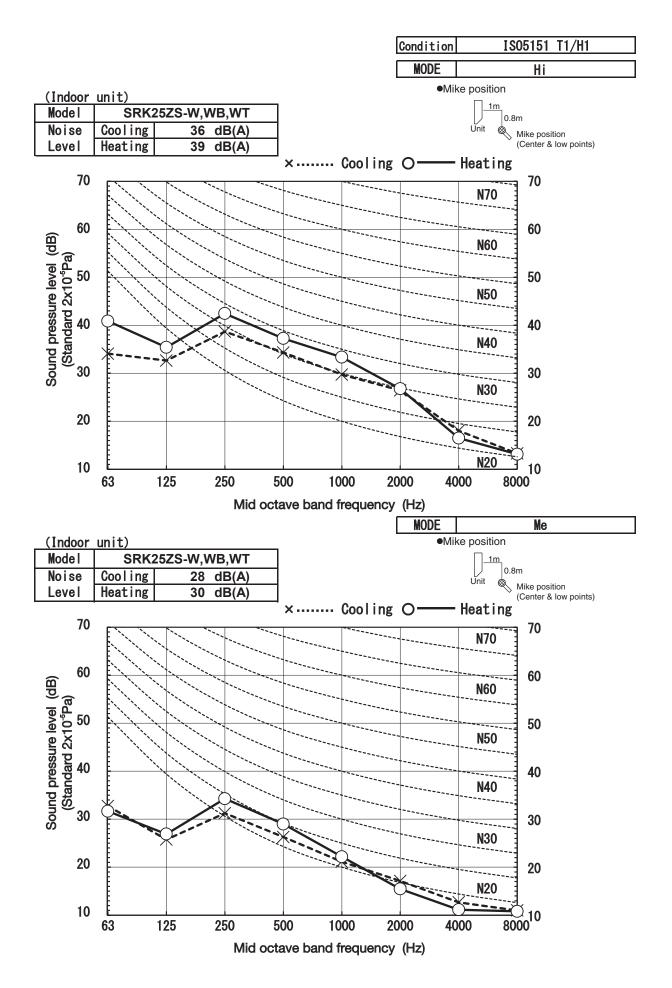


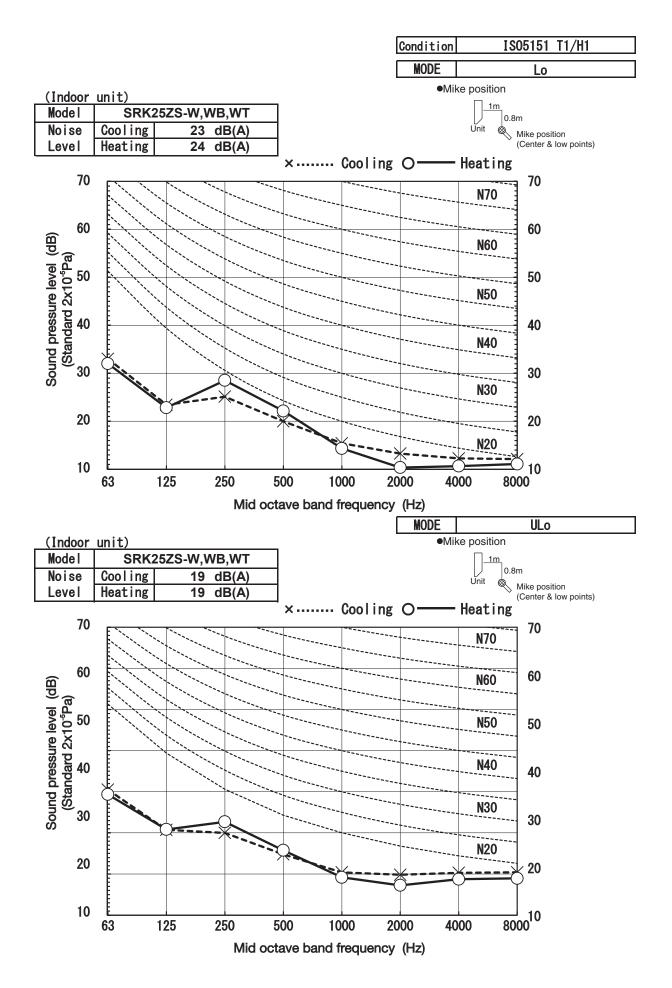
Model	Model SRC50ZS-W		 Mike position: at highest noise level in position as mentioned below Distance from front side 1m
Noise	Cooling	51 dB(A)	Distance from front side Till
Level	Heating	52 dB(A)	

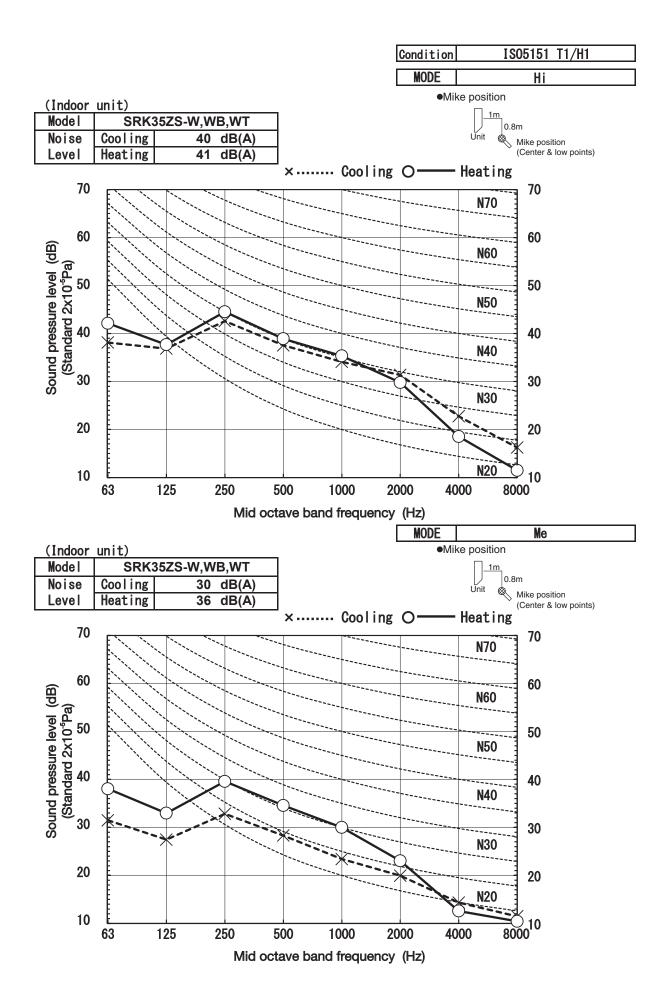


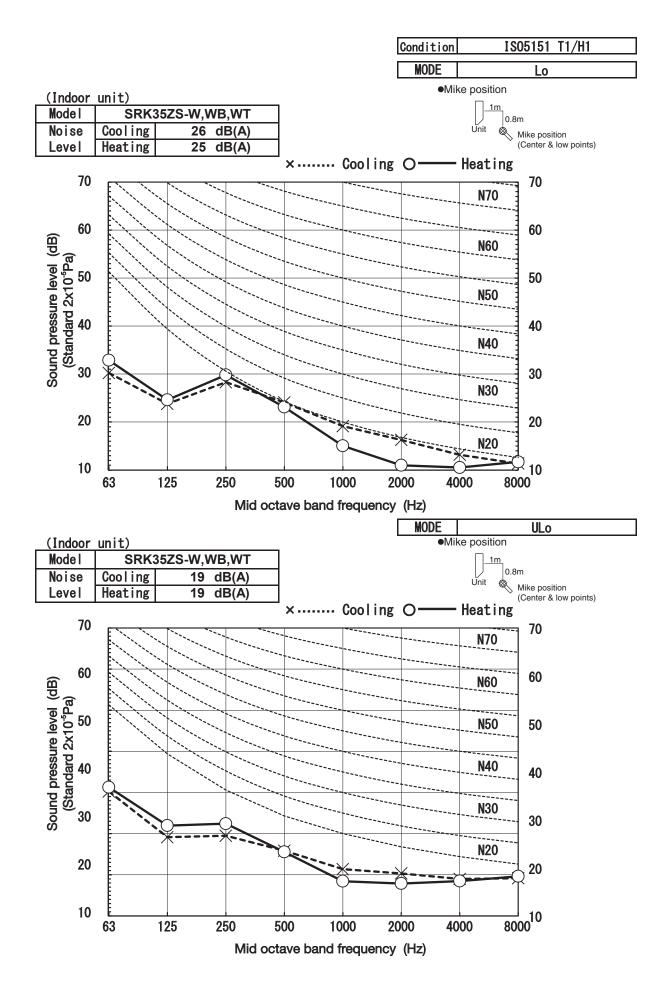
(b) Each fan speed mode Condition IS05151 T1/H1 MODE Hi ■Mike position (Indoor unit) Mode I SRK20ZS-W,WB,WT Noise Cooling 34 dB(A) Mike position (Center & low points) Level Heating 36 dB(A) ×····· Cooling O Heating 70 70 N70 60 60 Sound pressure level (dB) **N60** (Standard 2x10-5Pa) 50 50 **N50** 40 40 **N40** 30 N30 20 20 **N20** 10 10 1000 63 125 250 500 2000 4000 8000 Mid octave band frequency (Hz) MODE Me Mike position (Indoor unit) SRK20ZS-W,WB,WT Mode I 1m Noise Cooling 25 dB(A) Mike position (Center & low points) Heating Level 29 dB(A) ... Cooling O Heating 70 70 N70 60 60 Sound pressure level (dB) **N60** (Standard 2x10⁻⁵Pa) 50 **N50** 40 **N40** 30 N30 20 20 **N20** 10 3000 10 1000 63 125 250 500 2000 4000 Mid octave band frequency (Hz)

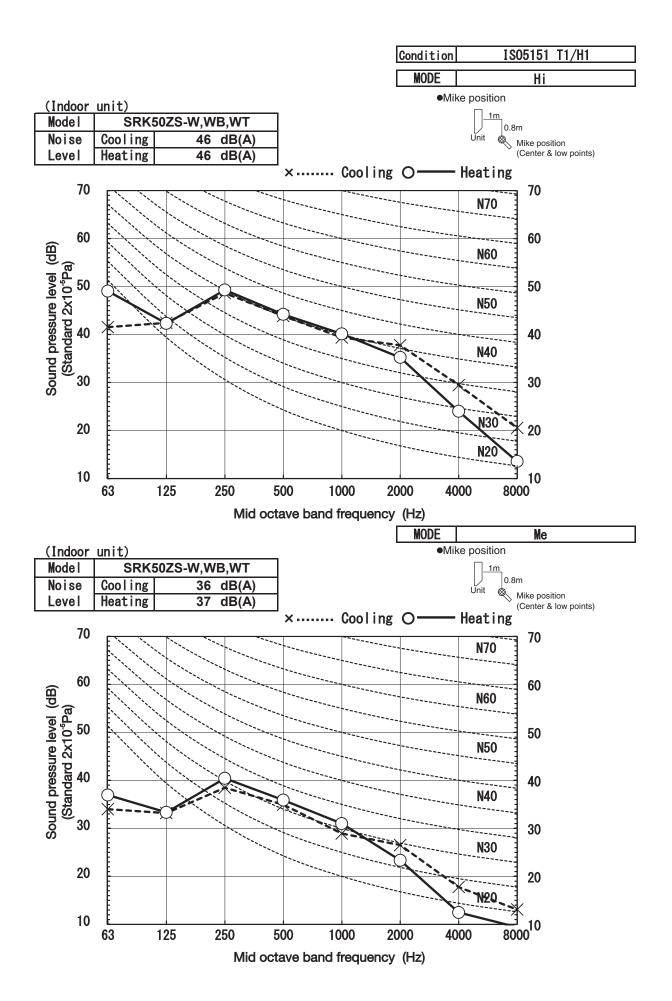


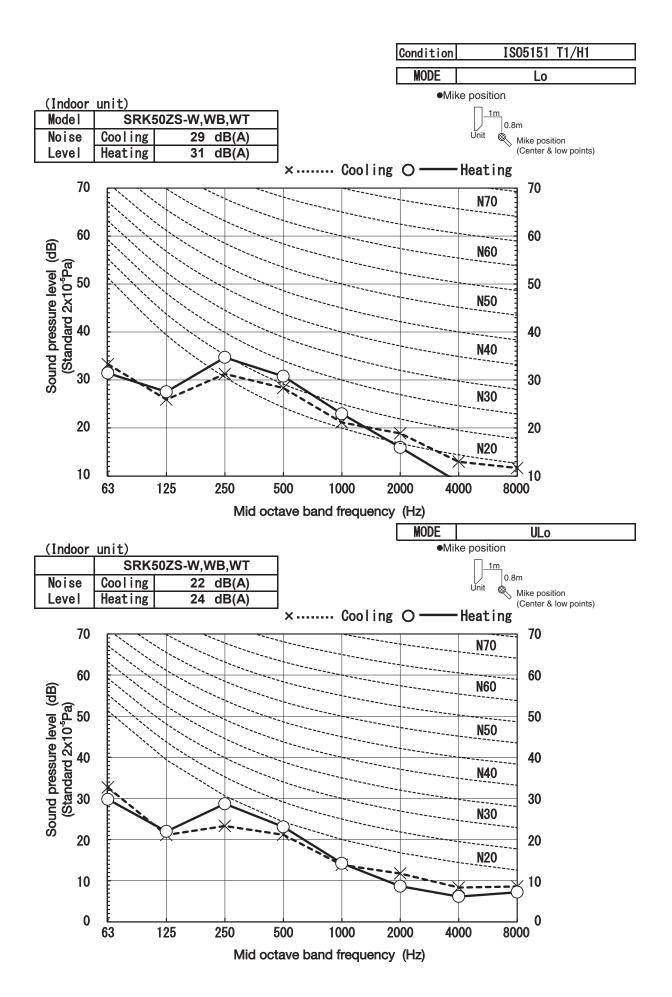












Condition ISO5151 T1/H1

Silent

(Outdoor unit)

Model	5	RC20ZS-W
Noise	Cooling	42 dB(A)
Level	Heating	43 dB(A)

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

MODE

Level	Heating	43 aB(A)					3113113		
-			_ ×	Cooling	0-	Heating			
70							70		
70						N70	, v		
		May make make	*********	·					

≈ 60	1						60		
뜅		The Tree Trees	***************************************			N60			
Sound pressure level (dB) (Standard 2x10*Pa) Standard 2x10*Pa)			*						
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10	Ė								
10		105 050	F00 10	\	200 4	000 00	10		
	63	125 250	500 10	000 20	000 40	000 80	00		
	Mid octave band frequency (Hz)								

(Outdoor unit)

(Ou Lucoi	uiii t/	
Model	8	RC25ZS-W
Noise	Cooling	42 dB(A)
Level	Heating	43 dB(A)

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

MODE Silent Cooling Heating 70 70 N70 60 60 Sound pressure level (dB) **N60** (Standard 2x10⁵Pa) 50 **N50** 40 **N40** 30 30 N30 20 20 **N20** 10 800010 63 250 500 1000 2000 125 4000 Mid octave band frequency (Hz)

Condition IS05151 T1/H1

Silent

(Outdoor unit)

Model	S	SRC35ZS-W							
Noise	Cooling	45 dB(A)							
Level	Heating	44 dB(A)							

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

MODE

Levei	Heating	44 dB(A)			111000		0110110
	•		×	Cooling	0-	-Heating	
70	ENN		[.			NZO	₃ 70
		·	***************************************			N70	<u> </u>
60			``				60
Sound pressure level (dB) (Standard 2x10 ⁵ Pa) & & G		1	***************************************			N60	60
el (`				
<u>§</u> 6 50			******			NEO	50
울 X		United States				N50	
ard 40					*		40
pre and	[The state of the s	***************************************			N40	
St and		The state of	``				
S 30	E	1	*******		11:	NOO	30
	ŧ					N30	
20			***************************************				½ 20
	[N20	1
10	ŧ						10
10	63	125 250	500 10	000 20	000 4	000 80	¹ 10 000
		Mid oc	tave band	rrequency	(HZ)		

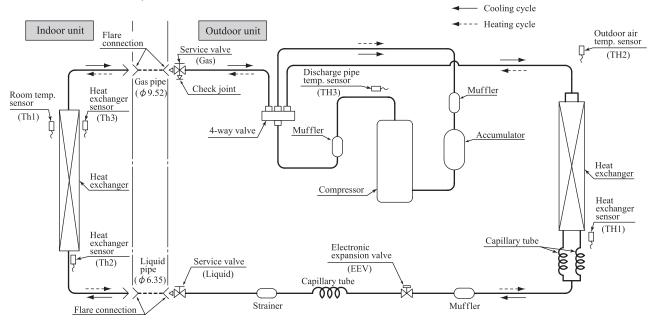
(Outdoor unit)

Mode I SRC50ZS-W Noise Cooling 43 dB(A) Level Heating 45 dB(A) Mike position: at highest noise level in position as mentioned below Distance from front side 1m

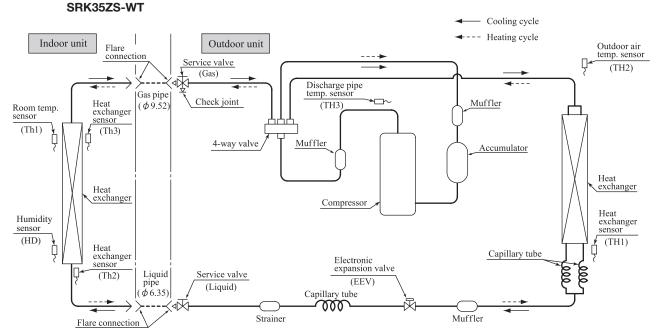
MODE Silent ···· Cooling Heating 70 70 N70 60 60 Sound pressure level (dB) (Standard 2x10*Pa) (Standard 2x10*Pa) Standard 2x10*Pa **N60** 50 **N50** 40 **N40** 30 20 20 **N20** 10 800010 250 500 1000 2000 63 125 4000 Mid octave band frequency (Hz)

5. PIPING SYSTEM

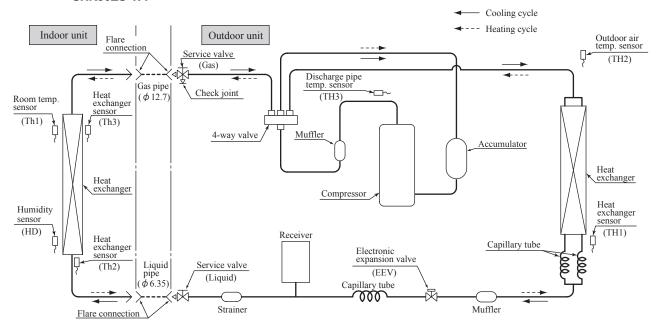
Models SRK20ZS-W, 25ZS-W SRK20ZS-WB, 25ZS-WB SRK20ZS-WT, 25ZS-WT



Models SRK35ZS-W SRK35ZS-WB



Models SRK50ZS-W SRK50ZS-WB SRK50ZS-WT



6. RANGE OF USAGE & LIMITATIONS

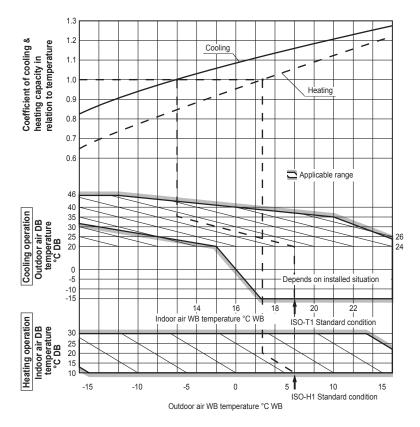
Model	SRK20,25,35ZS-W SRK20,25,35ZS-WB SRK20,25,35ZS-WT	SRK50ZS-W SRK50ZS-WB SRK50ZS-WT			
Indoor return air temperature (Upper, lower limits)	Cooling operation : Appro Heating operation : Appro (Refer to the selection cha	eximately 10 to 30°C D.B.			
Outdoor air temperature (Upper, lower limits)	Cooling operation : Approximately -15 to 46°C D.B. Heating operation : Approximately -15 to 24°C D.B. (Refer to the selection chart)				
Refrigerant line (one way) length	Max. 20m	Max. 25m			
Vertical height difference between outdoor unit and indoor unit	Max. 10m (Outdoor unit is higher) Max. 10m (Outdoor unit is lower)	Max. 15m (Outdoor unit is higher) Max. 15m (Outdoor unit is lower)			
Power source voltage	Rating	±10%			
Voltage at starting	Min. 85%	of rating			
Frequency of ON-OFF cycle	Max. 4 times/h (Inching prevention 10 minutes)	Max. 7 times/h (Inching prevention 5 minutes)			
ON and OFF interval	Min. 3 1	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
Cooling	1.0	0.99	0.975	0.965	0.95
Heating	1.0	1.0	1.0	1.0	1.0

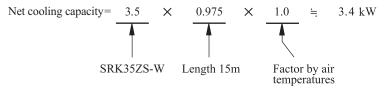
(3) Correction relative to frosting on outdoor heat exchanger during heating

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	-15	-10	-9	-7	-5	-3	-1	1	3	5 or more
Adjustment coefficient	0.95	0.95	0.94	0.93	0.91	0.88	0.86	0.87	0.92	1.00

How to obtain the cooling and heating capacity

Example : The net cooling capacity of the model SRK35ZS-W with the piping length of 15m, indoor wet-bulb temperature at 19.0° C and outdoor dry-bulb temperature 35° C is



7. CAPACITY TABLES

Models SRK20ZS-W, -WB, -WT

Cooling mode

(kW)

	0.44	Indoor air temperature													
Air flow	Outdoor	21°C	CDB	23°0	CDB	26°0	CDB	27°C	CDB	28°0	CDB	31°0	DDB	33°0	CDB
All llow	temperature	14°C	WB	16°C	WB	18°C	18°CWB		19°CWB		20°CWB		CWB	24°CWB	
	temperature	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
	10	2.25	2.11	2.36	2.08	2.45	2.19	2.49	2.17	2.53	2.15	2.60	2.25	2.67	2.20
	12	2.21	2.09	2.32	2.06	2.41	2.18	2.45	2.16	2.50	2.14	2.58	2.24	2.65	2.19
	14	2.17	2.06	2.28	2.04	2.38	2.17	2.42	2.15	2.47	2.12	2.55	2.23	2.62	2.18
	16	2.13	2.02	2.24	2.02	2.34	2.15	2.39	2.13	2.43	2.11	2.52	2.22	2.59	2.18
	18	2.08	1.98	2.19	2.01	2.30	2.14	2.35	2.12	2.40	2.10	2.49	2.21	2.56	2.17
	20	2.04	1.94	2.15	1.99	2.26	2.12	2.31	2.10	2.36	2.08	2.45	2.20	2.53	2.16
	22	1.99	1.89	2.10	1.97	2.22	2.10	2.28	2.09	2.32	2.07	2.42	2.19	2.50	2.14
Hi	24	1.94	1.85	2.05	1.95	2.18	2.07	2.24	2.08	2.28	2.06	2.38	2.18	2.47	2.14
9.3	26	1.90	1.80	2.01	1.91	2.14	2.03	2.20	2.06	2.24	2.04	2.35	2.17	2.43	2.13
(m³/min)	28	1.85	1.75	1.96	1.86	2.09	1.99	2.15	2.05	2.20	2.03	2.31	2.15	2.40	2.12
	30	1.79	1.70	1.90	1.81	2.05	1.94	2.11	2.01	2.16	2.01	2.27	2.14	2.36	2.09
	32	1.74	1.65	1.85	1.76	2.00	1.90	2.07	1.96	2.12	2.00	2.23	2.12	2.32	2.08
	34	1.69	1.60	1.80	1.71	1.95	1.85	2.02	1.92	2.07	1.97	2.19	2.08	2.28	2.07
	35	1.66	1.58	1.77	1.68	1.93	1.83	2.00	1.90	2.05	1.94	2.17	2.06	2.26	2.06
	36	1.63	1.55	1.74	1.65	1.90	1.81	1.98	1.88	2.02	1.92	2.15	2.04	2.24	2.05
	38	1.58	1.50	1.68	1.60	1.85	1.76	1.93	1.83	1.98	1.88	2.11	2.00	2.20	2.04
	39	1.55	1.47	1.66	1.57	1.83	1.74	1.91	1.81	1.95	1.85	2.08	1.98	2.18	2.04

Heating mode (HC)										
Air flow	Outdoor air		Indoor air temperature							
	temperature	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				
10.0	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				

Models SRK25ZS-W, -WB, -WT

		Heating mo	ode (HC)			(kW				
Air flow	Outdoor air		Indoor air temperature							
	temperature	16°CDB	18°CDB	20°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				
11.3	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				

Model	s SRK2	25 Z \$	S-W	, -W	В, -	WT				Coolin	g mode	•			(kW)
	0.11		Indoor air temperature												
Air flow	Outdoor	21°0										31°0	CDB	33°0	CDB
All HOW	temperature	14°C	CWB	16°C	WB	18°C	CWB	19°C	CWB	20°C	WB	22°C	CWB	24°C	CWB
	tomporaturo	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
	10	2.82	2.45	2.95	2.41	3.06	2.54	3.11	2.51	3.16	2.48	3.26	2.59	3.34	2.52
	12	2.77	2.43	2.90	2.39	3.01	2.52	3.07	2.49	3.12	2.47	3.22	2.58	3.31	2.51
	14	2.71	2.41	2.85	2.37	2.97	2.50	3.03	2.48	3.08	2.45	3.18	2.56	3.28	2.50
	16	2.66	2.38	2.80	2.35	2.92	2.49	2.98	2.46	3.04	2.44	3.15	2.55	3.24	2.49
	18	2.60	2.36	2.74	2.33	2.88	2.47	2.94	2.45	2.99	2.42	3.11	2.54	3.20	2.48
	20	2.55	2.33	2.68	2.30	2.83	2.45	2.89	2.43	2.95	2.40	3.07	2.52	3.17	2.47
	22	2.49	2.31	2.63	2.28	2.78	2.42	2.84	2.41	2.90	2.38	3.02	2.51	3.13	2.45
Hi	24	2.43	2.28	2.57	2.26	2.72	2.40	2.80	2.39	2.85	2.37	2.98	2.49	3.08	2.44
9.9	26	2.37	2.25	2.51	2.23	2.67	2.38	2.74	2.37	2.80	2.35	2.93	2.48	3.04	2.43
(m³/min)	28	2.31	2.19	2.44	2.20	2.61	2.36	2.69	2.35	2.75	2.33	2.89	2.46	3.00	2.41
	30	2.24	2.13	2.38	2.17	2.56	2.34	2.64	2.33	2.70	2.31	2.84	2.44	2.95	2.40
	32	2.18	2.07	2.31	2.15	2.50	2.32	2.58	2.31	2.64	2.29	2.79	2.43	2.90	2.38
	34	2.11	2.00	2.25	2.12	2.44	2.29	2.53	2.29	2.59	2.27	2.74	2.41	2.85	2.37
	35	2.08	1.97	2.21	2.10	2.41	2.28	2.50	2.28	2.56	2.26	2.71	2.40	2.83	2.36
	36	2.04	1.94	2.18	2.07	2.38	2.26	2.47	2.27	2.53	2.25	2.69	2.40	2.80	2.36
	38	1.97	1.87	2.11	2.00	2.32	2.20	2.41	2.24	2.47	2.22	2.63	2.38	2.75	2.34
	39	1.94	1.84	2.07	1.97	2.28	2.17	2.38	2.23	2.44	2.21	2.61	2.37	2.72	2.33

Models SRK35ZS-W -WB, -WT

Cooling mode

(kW)

	Outdoor						llndo	or air t	empera	ature					
Air flow	air	21°0	CDB	23°C	CDB	26°0	DB	27°C	CDB	28°0	DB	31°0	CDB	33°0	CDB
All llow	temperature	14°C	CWB	16°C	CWB	18°C	CWB	19°C	CWB	20°C	CWB	22°C	CWB	24°C	CWB
	tomporature	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
	10	3.94	3.19	4.13	3.14	4.28	3.27	4.35	3.22	4.43	3.18	4.56	3.29	4.68	3.20
	12	3.87	3.15	4.06	3.11	4.22	3.24	4.29	3.20	4.37	3.16	4.51	3.27	4.63	3.18
	14	3.80	3.12	3.99	3.07	4.16	3.21	4.24	3.17	4.31	3.14	4.46	3.26	4.59	3.16
	16	3.72	3.08	3.91	3.04	4.09	3.18	4.18	3.15	4.25	3.12	4.40	3.24	4.54	3.15
	18	3.65	3.04	3.84	3.00	4.03	3.16	4.11	3.13	4.19	3.09	4.35	3.21	4.49	3.13
	20	3.57	3.01	3.76	2.97	3.96	3.12	4.05	3.10	4.13	3.06	4.29	3.19	4.43	3.12
	22	3.49	2.96	3.68	2.93	3.89	3.10	3.98	3.07	4.06	3.04	4.23	3.17	4.38	3.10
Hi	24	3.40	2.93	3.59	2.89	3.81	3.07	3.91	3.05	3.99	3.02	4.17	3.15	4.32	3.08
11.3	26	3.32	2.89	3.51	2.86	3.74	3.03	3.84	3.01	3.92	2.98	4.11	3.13	4.26	3.06
(m³/min)	28	3.23	2.84	3.42	2.82	3.66	3.00	3.77	2.99	3.85	2.96	4.04	3.11	4.20	3.04
	30	3.14	2.80	3.33	2.78	3.58	2.97	3.70	2.96	3.78	2.93	3.98	3.08	4.13	3.02
	32	3.05	2.75	3.24	2.74	3.50	2.93	3.62	2.92	3.70	2.90	3.91	3.06	4.06	2.99
	34	2.95	2.71	3.14	2.69	3.41	2.90	3.54	2.89	3.62	2.87	3.84	3.03	4.00	2.97
	35	2.91	2.69	3.10	2.67	3.37	2.89	3.50	2.88	3.58	2.86	3.80	3.02	3.96	2.96
	36	2.86	2.67	3.05	2.65	3.33	2.87	3.46	2.87	3.54	2.84	3.76	3.01	3.92	2.95
	38	2.76	2.62	2.95	2.61	3.24	2.83	3.38	2.84	3.46	2.81	3.69	2.98	3.85	2.93
	39	2.71	2.57	2.90	2.59	3.20	2.81	3.33	2.81	3.42	2.79	3.65	2.97	3.81	2.92

		Heating mo	ode (HC)			(kW)
Air flow	Outdoor air		Indoo	or air temper	rature	
	temperature	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB
	-15°CWB	2.46	2.41	2.35	2.30	2.25
	-10°CWB	2.79	2.74	2.70	2.63	2.58
	-5°CWB	3.02	2.97	2.91	2.88	2.83
Hi	0°CWB	3.16	3.12	3.06	3.02	2.98
12.3	5°CWB	4.03	3.98	3.96	3.88	3.83
(m³/min)	6°CWB	4.09	4.04	4.00	3.95	3.90
	10°CWB	4.35	4.31	4.28	4.22	4.18
	15°CWB	4.73	4.69	4.66	4.61	4.56
	20°CWB	5.09	5.05	5.02	4.96	4.92

Models SRK50ZS-W, -WB, -WT

															(,
							Indo	or air t	empera	ture					
A :- 0	Outdoor	21°C	DB	23°0	DB	26°0	CDB	27°C	DB	28°0	DB	31°0	CDB	33°C	DB
Air flow	air temperature	14°C	WB	16°C	WB	18°C	WB	19°C	WB	20°C	WB	22°C	CWB	24°C	WB
	terriperature	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
	10	5.63	4.25	5.90	4.17	6.11	4.29	6.22	4.23	6.32	4.17	6.51	4.28	6.69	4.14
	12	5.53	4.19	5.80	4.12	6.03	4.25	6.14	4.19	6.25	4.14	6.44	4.25	6.62	4.12
	14	5.43	4.14	5.70	4.07	5.94	4.21	6.05	4.16	6.16	4.10	6.37	4.22	6.55	4.09
	16	5.32	4.08	5.59	4.02	5.85	4.17	5.96	4.12	6.08	4.07	6.29	4.19	6.48	4.07
	18	5.21	4.02	5.48	3.97	5.75	4.13	5.88	4.08	5.99	4.03	6.21	4.16	6.41	4.04
	20	5.10	3.96	5.37	3.92	5.65	4.08	5.78	4.04	5.90	3.99	6.13	4.13	6.33	4.02
	22	4.98	3.90	5.25	3.86	5.55	4.04	5.69	4.00	5.80	3.95	6.05	4.10	6.25	3.99
Hi	24	4.86	3.84	5.14	3.80	5.45	3.99	5.59	3.96	5.71	3.91	5.96	4.07	6.17	3.96
12.1	26	4.74	3.78	5.01	3.74	5.34	3.94	5.49	3.92	5.61	3.87	5.87	4.03	6.08	3.93
(m³/min)	28	4.61	3.72	4.89	3.68	5.23	3.89	5.39	3.87	5.50	3.83	5.78	4.00	5.99	3.90
	30	4.49	3.66	4.76	3.62	5.11	3.85	5.28	3.83	5.40	3.79	5.68	3.96	5.90	3.86
	32	4.35	3.59	4.63	3.56	5.00	3.80	5.17	3.78	5.29	3.75	5.58	3.92	5.81	3.83
	34	4.22	3.53	4.49	3.49	4.88	3.74	5.06	3.74	5.18	3.70	5.48	3.88	5.71	3.80
	35	4.15	3.48	4.42	3.46	4.82	3.72	5.00	3.71	5.12	3.68	5.43	3.86	5.66	3.78
	36	4.08	3.45	4.35	3.43	4.76	3.69	4.94	3.69	5.06	3.66	5.37	3.84	5.61	3.76
	38	3.94	3.38	4.21	3.36	4.63	3.64	4.82	3.64	4.94	3.61	5.27	3.81	5.50	3.73
	39	3.87	3.35	4.14	3.33	4.57	3.61	4.76	3.62	4.88	3.59	5.21	3.79	5.45	3.71

		Heating mo	ode (HC)			(kW)
Air flow	Outdoor air		Indoo	or air tempe	rature	
	temperature	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB
	-15°CWB	3.57	3.49	3.41	3.34	3.26
	-10°CWB	4.04	3.97	3.91	3.81	3.73
	-5°CWB	4.37	4.31	4.22	4.18	4.11
Hi	0°CWB	4.59	4.52	4.44	4.39	4.32
13.9	5°CWB	5.84	5.77	5.74	5.63	5.55
(m³/min)	6°CWB	5.94	5.87	5.80	5.73	5.66
	10°CWB	6.31	6.25	6.21	6.12	6.06
	15°CWB	6.86	6.80	6.76	6.68	6.62
	20°CWB	7.38	7.32	7.28	7.20	7.14

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.

(2) Capacities are based on the following conditions.

(2) Capacities are abset of the inhibiting formation Corresponding refrigerant piping length :5m Level difference of Zero.

(3) Symbols are as follows.

TC: Total cooling capacity (kW)

SHC: Sensible heat capacity (kW)

HC: Heating capacity (kW)

8. APPLICATION DATA

Installation of indoor unit

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

SAFETY PRECAUTIONS

- Before installation, read the "SAFETY PRECAUTIONS" carefully and strictly follow it during the installation. If unusual tion work in order to protect yourself.
 - The precautionary items mentioned below are distinguished into two levels, **AWARNING** and **ACAUTION**.
 - - sequences such as death or severe injury.

 CAUTION Indicates a potentially hazardous situation which, if not avoided, can result in personal injury or property damage.

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

Model SRK20,25,35,50ZS R32/R410A REFRIGERANT USED

RLF012A105

- noise can be heard during the test run, consult the dealer.
- · Be sure to explain the operating methods as well as the maintenance methods of this equipment to the user according to the user's manual.

 Be sure to keep the installation manual together with user's manual at a place where it is easily accessi ble to the user any time. Moreover, ask the user to hand the manuals to a new user, whenever required.

○ WARNING

Be sure to use only for residential purpose. If this unit is installed in inferior environment such as machine shop, vehicle (like ship), warehouse,

installation by non qualified person or incorrect installation can cause serious troubles such as water Installation must be carried out by the qualified installer completely in accordance with the installation manual

leak, electric shock, fire and personal iniury

Be sure to wear protective goggles and gloves while performing installation work. Improper safety measures can result in personal inju

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. Use the original accessories and the specified components for the installation.

If leaked gases accumulate around the unit, it can cause fire resulting in property damage and personal injury.

When installing the unit in small rooms, make sure that refrigerant density does not exceed the limit (Reference: ISO5149) in the event of leakage.

If refrigerant density exceeds the limit, consult the dealer and install the ventilation system. Otherwise lack of oxygen can occur resulting in serious accident

Install the unit in a location where unit will remain stable, horizontal and free of any vibration transmission.

Unsuitable installation location can cause the unit to fall resulting in material damage and personal injury. Do not run the unit with removed panels or protections.

entrapment, burn or electric shock

This unit is designed specifically for R32 or R410A.
 Using any other refrigerant can cause unit failure and personal injury.

Do not vent R32 or R410A into atmosphere.

Make sure that no air enters the refrigerant circuit when the unit is installed R32 is a fluorinated greenhouse gas with a Global Warming Potential(GWP)=675. R410A is a fluorinated greenhouse gas with a Global Warming Potential(GWP)=2088.

If air enters the refrigerant circuit, the pressure in the refrigerant circuit will become too high, which • Be sure to install service cover property. can cause burst and personal injury.

Be sure to use the prescribed pipes, flare nuts and tools for R32 or R410A.
Using existing parts (for R22 or R407C) can cause refrigerant circuit burst resulting in unit failure and and removed

Be sure to connect both liquid and gas connecting pipes properly before oppersonal injury

open, air can be sucked into the refrigerant circuit which can cause anomalous high pressure result-If the compressor is operated when connecting pipes are not connected and service valves are work, and evacuation.

ing in burst or personal injury.

Be sure to tighten the flare nuts to specified torque using the torque wrench.

Tightening flare nuts with excess torque can cause burst and refrigerant leakage after a long period.

· 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 operation valves are open, air can be sucked into the refrigerant circuit which can cause anomalous high pressure resulting in burst or personal injury.

 In the event of refrigerant leakage during installation, be sure to ventilate the if the refrigerant comes into contact with naked flames, poisonous gases will be produced working area properly

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

Be sure to switch off the power source in the event of installation, maintebreakers can cause electric shock, personal injury or property damage

Be sure to tighten the cables securely in terminal block and relieve the caif the power source is not switched off, there is a risk of electric shock, unit failure or personal injury nance or service.

Do not run the unit with removed panels or protections.

Loose connections or cable mountings can cause anomalous heat production or fire.

Touching rotating equipments, hot surfaces or high voltage parts can cause personal injury due to • Do not process, splice or modify the power cable, or share the socket with bles properly to prevent overloading the terminal blocks. other power plugs.

improper power cable or power plug can cause fire or electric shock due to poor connection, insufficient insulation or over-current

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 Do not perform any change in protective device or its setup condition yourself

f cables touch any internal component, it can cause overheating and fire. component of the unit.

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. Jsing improper cables can cause electric leak or fire.

erating the compressor.

Improper electrical work can cause unit failure or personal injury.

Lot open the liquid and gas service valves before completing piping • When plugging this unit, a plug conforming to the standard IEC60884-1 must be 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

Using improper plug can cause electric shock or fire.

• Be sure to connect the power source cable with power source properly. Improper connection can cause intrusion of dust or water resulting in electric shock or fire.

♠ CAUTION

Do not install the unit in the locations where:

Unit is directly exposed to rain or sunlight.

There are heat sources nearby.

Take care when carrying the unit by hand.

If the unit weight is more than 20kg, it must be carried by two or more persons

Do not carry the unit by the plastic straps. Always use the carry handle.

Do not install the outdoor unit in a location where insects and small animals can inhabit.

· If the outdoor unit is installed at height, make sure that there is enough space 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.

Insufficient space can result in personal injury due to falling from the height for installation, maintenance and service.

 Do not install the unit near the location where neighbours are bothered by It can affect surrounding environment and cause a claim. noise or air generating from the unit.

· 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 Equipment such as inverters, standby generators, medical high frequency equipments and telecommunication equipments can affect the system, and cause malfunctions and breakdowns. waves and/or high-harmonic waves.

It can cause performance degradation, corrosion and damage of components, unit malfunction and fire. · Dispose of all packing materials properly. Height above sea level is more than 1000m.

Packing materials contain nails and wood which can cause personal injury.

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.

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.

Keep the polybag away from children to avoid the risk of suffocation Do not put anything on the outdoor unit

Aluminium fin temperature is high during heating operation. Touching fin can cause burn. · Do not touch the aluminum fin of the outdoor unit. Object may fall causing property damage or personal injury.

 Do not touch any refrigerant pipe with your hands when the system is in operation. During operation the refrigerant pipes become extremely hot or extremely cold depending on the operating condition. Touching pipes can cause personal injury like burn (hot/cold). The system can also affect medical equipment and telecommunication equipment, and obstruct its

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

I. ACCESSORIES AND TOOLS

unction or cause jamming.

		Standard	accessorie	ins) se	ilac	Standard accessories (supplied with indoor unit)				Locally procured
_			9		-	,	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	T	(a)	(a) Sleeve (1pc)
_	Ξ	(1) Installation board		1pc	9	1pc (6) Batteries [R03 (AAA, Micro) 1.5V]	<u>2</u>	2pcs	(q)	b) Sealing plate (1pc)
_	T							T	(c)	(c) Inclination plate (1pc)
_	(5)	(2) Remote control		1pc	9	1pc (7) Air-cleaning filters	/ 2	2pcs	9	d) Putty
			E						(e)	(e) Connecting cable
	<u>ල</u>	(3) Remote control holder		1pc	8	1pc (8) Filter holders	2pcs	sod	€	(f) Drain hose (extension
			}						ľ	Sining cover
_	(4)	(4) Tapping screws	Q	Spcs	(6)	Spcs (9) Insulation (#486 50 X 100 f3) 700		_	(6)	(9) (for insulation of conn
		(for installation board ø4 X 25mm)	}	1)	(2. 2			7	Clamp and screw (for
_	(5)	Wood screws		Suce					(n)	work)
_	2	(for remote control holder ø3.5 X 16mm)	À	2007					<u>=</u>	Electrical tape
_								_		

Tools for	Tools for installation Work
Plus headed driver	Hole core drill (65mm in diameter)
Knife	Wrench key (Hexagon) [4mm]
Saw	Flaring tool set*
Tape measure	Gas leak detector*
Torque wrench (14.0-62.0N·m (1.4-6.2kgf·m))	Pipe bender
Plier	Gauge for projection adjustment (Used when flare is made by using
Pipe cutter	conventional flare tool)
* Desig	* Designed specifically for R32 or R410A

nection piping) r finishing

n hose)

	_	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5						_	ŀ	
	L		8-8-8				Ç		(a)	(a) Sleeve (1pc)
	<u>E</u>	(1) Installation board		1pc	9	1pc (6) Batteries [R03 (AAA, Micro) 1.5V]	:: \{\gamma}	2pcs (I	(q	(b) Sealing plate (
								T	(S)	Inclination plat
	(5)	(2) Remote control	M. M.	1pc	(2	1pc (7) Air-cleaning filters		2pcs ((9	(d) Putty
			E						(e)	(e) Connecting cal
	(6)	(3) Remote control holder		1pc	8	1pc (8) Filter holders	Company Spice		Œ	(f) Drain hose (ex
			}						Ë	Dining cover
	4	(4) Tapping screws		Spcs	(6)	5pcs (9) Insulation (#486 50 X 100 t3)			(6 (6	(9) (for insulation
_		(tor installation board ø4 X 25mm)	}	<u> </u>	ì	(22 22 22 22 22 22 22 22 22 22 22 22 22				Clamp and scr
	(5	Wood screws		Juce				<u>-</u>]	C C	work)
	9	(for remote control holder ø3.5 X 16mm)	b	207					<u>=</u>	(i) Electrical tape

Improper adjustment of the installation board can cause water leakage

2. SELECTING INSTALLATION LOCATION

After getting customer's approval, select installation location according to following guidelines

Installation example

10 cm minimum from the ceiling

Indoor unit

10 cm minimum from the wall

Installation board

5 cm minimum from the wall

1. Indoor unit

Where there is no obstruction to the air flow 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.)

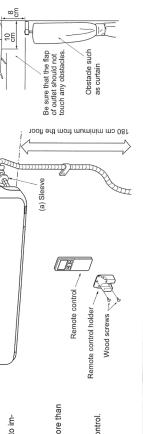
 Where it is easy to conduct wiring and piping work.

 A place where unit is not directly exposed to sunlight or street light.

 A place where it can be easily drained.

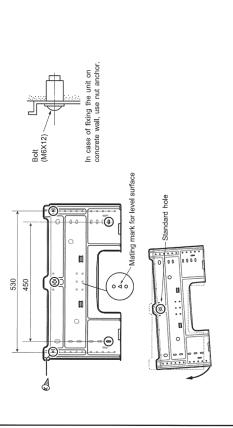
 A place separated at least 1m away from the television or the radio. (To prevent interference to images and sounds.
- A place where this unit is not affected by the high frequency equipment or electric equipment.
 Avoid installing this unit in place where there is much oil mist.
 A place where there is no electric equipment or household.
 Install the indoor unit on the wall where the height from the floor to the bottom of the unit is more than

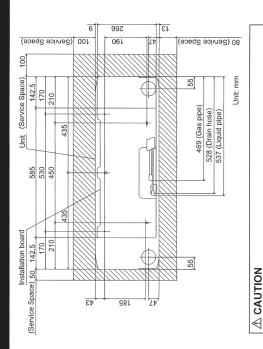
- 2. Remote control
 A place where the air-conditioner can receive the signal surely during operating the remote control.
 A place where it is not affected by the TV, radio etc.
 Do not place where it is exposed to direct sunlight or near heat devices such as a stove.



3. INSTALLING INSTALLATION BOARD

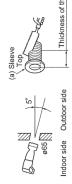
- Installation board should be installed on the wall which can support the weight of the indoor unit.
 Adjustment of the installation board in the horizontal direction is to be conducted with five screws in a temporary lightened state.
 With the standard hole as a center, adjust the board and level it.

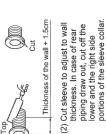




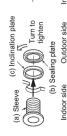
4. DRILLING HOLE AND FIXTURE OF SLEEVE

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





(1) Drill a hole with hole core drill.



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



Outdoor side *(d) Putty (4) After piping work, seal the hole in the wall (d) Putty with putty. Indoor side

Completely seal the hole in the wall with putty. If not sealed properly, dust, insects, small animals, and highly humid air may enter the room from outside, which could result in fire or other hazards.

Completely seal the hole in the wall with putty. If not sealed properly, furniture and other fixtures may be damaged by water leakage or condensation.

△ CAUTION

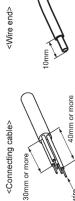
5. ELECTRICAL WIRING WORK

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

1. Preparing cable

- (1) Selecting cable Selecting cable in accordance with the specifications mentioned below. Select the connecting cable in accordance with 60245 IEC57 4-core* 1.5mm² conformed with 60245 IEC57

(2) Arrange each wire length as shown below. Make sure that each wire is stripped 10mm from the end.





Earth wire





• Earth wire shall be Yellow/Green (Y/G) in color and longer than other wires for safety reason. THE THE Cable clamp Terminal block

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

NOTE

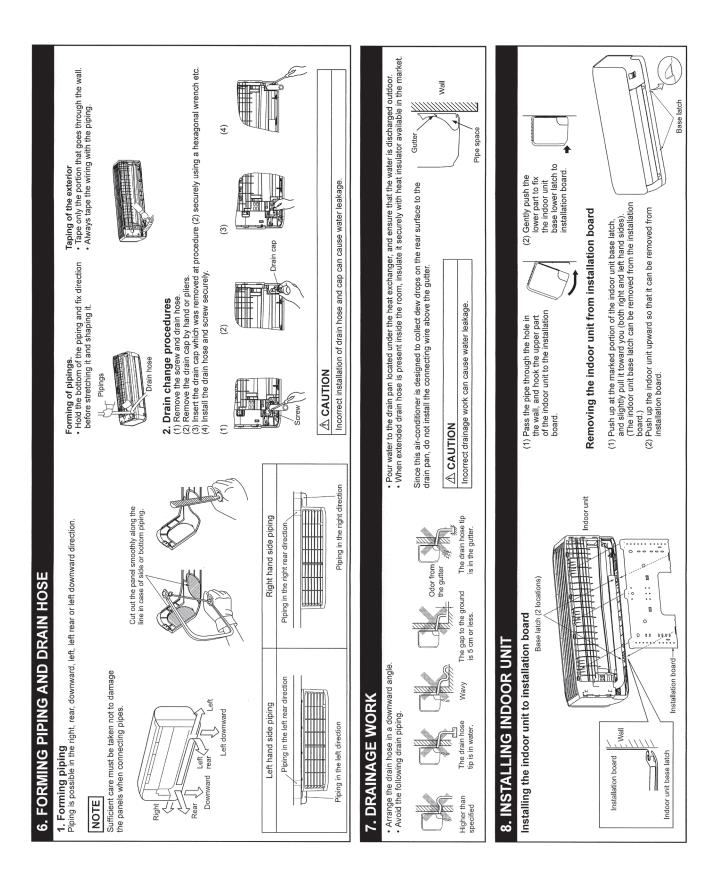
2. Connecting cable
(1) Open the air inlet panel.
(2) Remove the lid.
(3) Remove the cable clamp.
(4) Connect the connecting wires to the terminal block.
(5) Fix the connecting cable by cable clamp.
(6) Fix the lid.
(7) Close the air inlet panel.

(e) Connecting cable

The screw of the lid is tightened securely.

Incorrect wiring connection can cause malfunction or fire.

△ WARNING



9. CONNECTING PIPING WORK

1. Preparation of connecting pipe

1.1. Selecting connecting pipe

Select connecting pipe according to the following table.

	Model SRK20/25/35	Model SRK50
Gas pipe	g-252	ø12.7
Liquid pipe	ø6.35	ø6.35

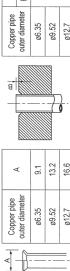
Pipe wall thickness must be greater than or equal to 0.8 mm.
 Pipe material must be O-type (Phosphorus deoxidized seamless copper pipe ICS 23.040.15, ICS 71.16.30).

- Cut the connecting pipe to the required length with pipe cutter.
 Hold the pipe downward and remove the burns. Make sure that no foreign material enters the pipe.
 Cover the connecting pipe ends with the tape. 1.2. Cutting connecting pipe

2. Piping work

2.1. Flaring pipe

- (1) Take out flare nuts from the operation valves of indoor unit and engage them onto connecting pipes. (2) Flare the pipes according to table and figure shown below. Flare the pipes according to table and figure shown below. Flare dimensions for R32 are different from those for conventional refrigerant.
- Although it is recommended to use the flaring tools designed specifically for R32 or R410A, conventional flaring tools can also be used by adjusting the dimension B with a flare adjustment gauge.



012.7 16.6

R32 or R410A | Conventional 1.0-1.5 B [Rigid (clutch) type] 0-0.5

Liquid side Sas side (Do not turn)

△ 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.

- Heating and condensation prevention
 Dress the connecting pipes (both liquid and gas pipes) with insulation to prevent it from heating and Use the heat insulating material which can withstand 120°C or higher temperature. Make sure that insu
 - lation is wrapped tightly around the pipes and no gap is left between them.
- (2) Wrap the refrigerant pipings of indoor unit with indoor unit heat insulation using tape.
 (3) Cover the flare-connected joints (indoor side) with the indoor unit heat insulation and wrap it with an insulation pad (standard accessory provided with indoor unit).
 - (4) Wrap the connecting pipes, connecting cable and drain hose with the tape

Insulation pad ල (5)

3as pipe (4) Connecting cable Liquid pipe

Position it so that the slit area faces upward.

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.

Finishing work

- (1) Make sure that the exterior portion of connecting pipes, connecting cable and drain hose is wrapped properly with tape. Shape the connecting pipes to match with the contours of the pipe assembly route.

 (2) Fix the pipe assembly with the wall using clamps and screws. Pipe assembly should be anchored every 1.5m or less to isolate the vibration.

Pipe assembly (h)Clamp

o

(3) Install the service cover securely. Water may enter the unit if service cover not installed properly, resulting in unit malfunction and failure.

To avoid the risk of fire or explosion, the flared connection **△ WARNING** (only for R32)

- Reusable mechanical connectors and flared joints are not must/shall be installed outdoors.
 - allowed indoors.

Flared joint outside

Wall

Seal hole with putty

unit

Wall hole cover

△ CAUTION

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

Connect pipes on both liquid and gas sides.
 Tighten nuts to specified torque shown in the table below.

2.2 Connecting pipes

Tightening torque (N·m)

Operation valve size (mm)

ø6.35 (1/4") ø9.52 (3/8") ø12.7 (1/2")

14-18 34-42 49-61

10. HOW TO OPEN, CLOSE, REMOVE AND INSTALL THE AIR INLET PANEL

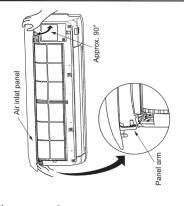
Pull the air inlet panel at both ends of lower part and release latches, then pull up the panel until you feel resistance.

(The panel stops at approx. 70° open position)

Hold the panel at both ends of lower part, lower it downward slowly, then push it slightly until the 3. Removing
Open the panel by 90° (as shown in the right illustration) and then pull it forward. latch works

4. Installing

panel from the position shown in right illustra-tion, hold the panel at both ends of lower part, lower it downward slowly, then push it slightly Insert the panel arm into the slot on the front until the latch works.



11. HOW TO REMOVE AND INSTALL THE BOTTOM AND FRONT PANEL

Front panel

1. Bottom panel

Removing
 Screws (in the cap).
 Remove the 2 screws (in the cap).
 Remove the 2 hocks of left and right side and then bottom panel can be removed.

1.2. Installing

(1) Install the 2 hooks of left and right side. (2) Secure the bottom panel with the 2 screws

(in the cap).

2. Front panel

2.1. Removing (1) Remove the air inlet panel, the air filters and the

bottom panel

(2) Remove the 2 screws. (3) Remove the 4 upper latches and then front panel can be removed.

2.2. Installing

upper latches.
(2) Secure the front panel with the 2 screws.
(3) Install the bottom panel, the air inlet panel and (1) Cover the unit with the front panel and fix 4

the air filters.

Bottom panel Screw (in the cap)

13. TERMINAL CONNECTION FOR AN INTERFACE

To install wired remote control, superlink etc., interface kit is

Installing remote control holder (1) Select the place where the unit can receive

signals. (2) Fix the holder to pillar or wall with wood

screws.

Control cover

Indoor unit PCB

bottom panel and front panel. (2) Remove the control cover. (1) Remove the air inlet panel,

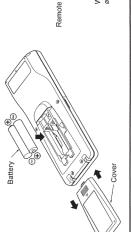
(Remove the screw.) (3) There is a terminal

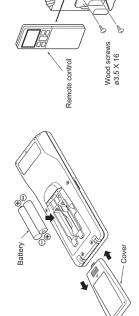
(respectively marked with CNS) for the indoor control board. While connecting an interface, connection kit SC-BIKN-E and SC-BIKN2-E" and fasten the connection harness supplied connection harness onto the indoor control box with the with an optional "Interface terminal securely with the connect to the respective

For more details, refer to the user's manual of "Interface connection kit SC-BIKN-E and SC-BIKN2-E". clamp and screw supplied with the kit.

Clamp CNS terminal Screw Ţ

> Wood screws ø3.5 X 16 Remote control





12. INSTALLING REMOTE CONTRO

Mount the batteries

(1) Slide and take out the cover of backside.
(2) Mount the batteries [R03 (AAA, Micro), x2 pieces] in the body properly.
(Fit he poles with the indication marks + & -)
(3) Set the cover again.

NOTE

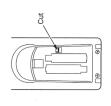
Do not use new and old batteries together.
 In case the unit is not operated for a long time, take out the batteries

14. INSTALLING TWO AIR-CONDITIONERS IN THE SAME ROOM

In case two air-conditioners are installed in the same room, apply this setting so that one unit can be operated with only one remote control.

Setting one remote control

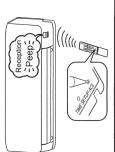
- (1) Slide and take out the cover and batteries. (2) Cut the switching line next to the battery
 - with wire cutters.
 (3) Set the batteries and cover again.



- Setting one indoor unit
 (1) Turn off the power source and turn it on after
- on the remote control that was set according to the procedure described on the left side. (3) Check that the reception buzzer sound "Peep" is emitted from the indoor unit. Since (2) Send the signal by pressing the ACL switch
 - the signal is sent about 6 seconds after the ACL switch is pressed, point the remote control to the indoor unit for a while.

NOTE

If no reception buzzer is emitted, restart the setting from the beginning.



After finishing the installation work, check the following points again before turning on the power. Conduct a test run and ensure that the unit operates properly. At the same time, explain to the customer how to use the unit and how to take care of the unit following the user's manual. Indoor unit receives signal of remote control. **Test run** Check following points during test run. Air-conditioning operation is normal. There is no abnormal noise Power source voltage complies with the rated voltage of Power cable and connecting cable are securely fixed to Earth leakage breaker and circuit breaker are installed

Before test runBefore test run, check following points.

air-conditioner.

Indoor and outdoor side pipe joints have been insulated.

Hole on the wall is completely sealed with putty.

Drain hose and cap are installed properly.

Screw of the lid is tightened securely.

No gas leaks from the joints of the service valves. Both liquid and gas service valves are fully open.

the terminal block.

Display of remote control is normal.

15. PUMP DOWN WORK

For the environmental protection, be sure to pump down when relocating or disposing of the unit. Pump down is the method of recovering refrigerant from the indoor unit to the outdoor unit before the connecting pipes are removed from the unit. When pump down is carried out, forced cooling operation is needed.

Forced cooling operation (1) Turn off the power source and turn it on

- again after 1 miniute.
- (2) Press the ON/OFF button continuously for at least 5 seconds. Then operation will start.

For the detail of pump down, refer to the installation manual of outdoor unit.

16. INSTALLATION CHECK AND TEST RUN

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. NOTE Water drains out smoothly.

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.	

(2) Installation of outdoor unit

RWC012A068

Model SRC20,25,35,50ZS-W **R32 REFRIGERANT USED**

· This installation manual deals with an outdoor unit installation only. For an indoor unit installation, refer to page 48.

SAFETY PRECAUTIONS

 Before installation, read the "SAFETY PRECAUTIONS" carefully and strictly follow it during the einstallation on the operation problem on the equipment after completing the installation. If unusual noise can be heard during the test run, consult the dealer.
 The precautionary items mentioned below are distinguished into two levels, AWARNING indicates a potentially hazardous situation which, if not avoided, can result in serious consequences such as death or severe injury.
 CAUTION Indicates a potentially hazardous situation which, if not avoided, can result in personal information of the properties of the dealer.
 Be sure to explain the operating methods as well as the maintenance methods of this equipment to the user according to the user's manual.
 Be sure to explain the operating methods as well as the maintenance methods of this equipment to the user according to the user's manual.
 Be sure to explain the operating methods as well as the maintenance methods of this equipment to the user according to the user's manual.
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A CAUTION Indicates a potentially hazardous situation which, if not avoided, can result in personal in-

jury or property damage.

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

- Before installation, read the "SAFETY PRECAUTIONS" carefully and strictly follow it during the installation. Fee sure to confirm no operation problem on the equipment after completing the installation. If unusual

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-

- Installation must be carried out by the qualified installer completely in accordance with the installation manual.
 Installation by non qualified person or incorrect installation can cause serious troubles such as water leak, electric shock, fire and personal injury.
 Be sure to wear protective goggles and gloves while performing installation work. Improper safety measures can result in personal injury.
 Use the original accessories and the specified components for the installation.
 Using parts other than those prescribed may cause water leak, electric shock, fire and personal injury.
 Do not install the unit near the location where leakage of flammable gases can occur. If leaked gases accumulate around the unit, it can cause fire resulting in property damage and personal injury.
 When installing the unit in small rooms, make sure that refrigerant density
- sonal injury.

 When installing the unit in small rooms, make sure that refrigerant density does not exceed the limit (Reference: ISO5149) in the event of leakage. If refrigerant density exceeds the limit, consult the dealer and install the ventilation system. Otherwise lack of oxygen can occur resulting in serious accident. Install the unit in a location where unit will remain stable, horizontal and free of any vibration transmission.

 Unsuitable installation location can cause the unit to fall resulting in material damage and personal injury.

Do not run the unit with removed panels or protections.

Touching rotating equipments, hot surfaces or high voltage parts can cause personal injury due to entrapment, burn or electric shock.

- entrapment, burn or electric shock.

 This unit is designed specifically for R32.
 Using any other refrigerant can cause unit failure and personal injury.

 Do not vent R32 into atmosphere.
 R32 is a fluorinated greenhouse gas with a Global Warming Potential(GWP)=675.

 Make sure that no air enters the refrigerant circuit when the unit is installed and removed.

 If air enters the refrigerant circuit, the pressure in the refrigerant circuit will become too high, which

- reflects the reingerant circuit, the pressure in the reingerant circuit will become too high, which can cause burst and personal injury.

 Be sure to use the prescribed pipes, flare nuts and tools for R32 or R410A.

 Using existing parts (for R22 or R407C) can cause refrigerant circuit burst resulting in unit failure and personal injury.

 Be sure to connect both liquid and gas connecting pipes properly before op-

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 result.

Be sure to tighten the flare nuts to specified torque using the torque wrench.
Tightening flare nuts with excess torque can cause burst and refrigerant leakage after a long period.

During pump down work, be sure to stop the compressor before closing service valves and removing connecting pipes. If the connecting pipes are removed when the compressor is in operation and service valves are open, air can be sucked into the refrigerant circuit which can cause anomalous high pressure result-

- ing in burst or personal injury.

 In the event of refrigerant leakage during installation, be sure to ventilate the working area properly.

 If the refrigerant comes into contact with naked flames, poisonous gases will be produced
- Electrical work must be carried out by the qualified electrician, strictly in accordance with national or regional electricity regulations. Incorrect installation can cause electric shock, fire or personal injury.

 Make sure that earth leakage breaker and circuit breaker of appropriate ca-
- pacities are installed.

 Circuit breaker should be able to disconnect all poles under over current. Absence of appropriate breakers can cause electric shock, personal injury or property damage.

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

- nance or service.

 If the power source in the event of installation, maintenance or service.

 If the power source is not switched off, there is a risk of electric shock, unit failure or personal injury.

 Be sure to tighten the cables securely in terminal block and relieve the cables properly to prevent overloading the terminal blocks.

 Loose connections or cable mountings can cause anomalous heat production or fire.

 Do not process, splice or modify the power cable, or share the socket with

other power plugs.Improper power cable or power plug can cause fire or electric shock due to poor connection, insufficient insulation or over-current.

- ficient insulation or over-current.

 Do not perform any change in protective device or its setup condition yourself.

 Changing protective device specifications can cause electric shock, fire or burst.

 Be sure to clamp the cables properly so that they do not touch any internal component of the unit.

 If cables touch any internal component, it can cause overheating and fire.

 Be sure to install service cover properly.

 Improper installation can cause electric shock or fire due to intrusion of dust or water.

- Improper installation can cause electric shock or fire due to influsion of use of water.

 Be sure to use the prescribed power and connecting cables for electrical work. Using improper cables can cause electric leak or fire.

 This appliance must be connected to main power source by means of a circuit breaker or switch with a contact separation of at least 3mm. Improper electrical work can cause unit failure or personal injury.

 When plugging this unit, a plug conforming to the standard IEC60884-1 must be used.
- Using improper plug can cause electric shock or fire.
- Be sure to connect the power source cable with power source properly. Improper connection can cause intrusion of dust or water resulting in electric shock or fire.

⚠ CAUTION

- Take care when carrying the unit by hand.

 If the unit weight is more than 20kg, it must be carried by two or more persons.

 Do not carry the unit by the plastic straps. Always use the carry handle.

 Do not install the outdoor unit in a location where insects and small animals can inhabit.
 Insects and small animals can enter the electrical parts and cause damage resulting in fire or per-

Insertise and shifted administs can relief the electrical parts and cause damage resulting in the or personal injury, instruct the user to keep the surroundings clean.

If the outdoor unit is installed at height, make sure that there is enough space for installation, maintenance and service.

Insufficient space can result in personal injury due to falling from the height.

Do not install the unit near the location where neighbours are bothered by noise or air generating from the unit.

- 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 telecommunication equipments can affect the system, and cause malfunctions and breakdowns.

The system can also affect medical equipment and telecommunication equipment, and obstruct its function or cause jamming

- Do not install the unit in the locations where:

- 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.

- 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.

- Reep the polybag away from children to avoid the risk of sunocation.

 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).

 Install isolator or disconnect switch on the power source wiring in accordance with the local codes and regulations.

 The isolator should be locked in OFF state in accordance with EN60204-1.

1. ACCESSORIES AND TOOLS Standard accessories Q'ty Locally procured parts Tools for installation work (Supplied with outdoor unit Anchor bolt(M10-M12)×4 pcs Plus headed driver Spanner wrenc Vacuum pump (1) Drain grommet @ (b) Putty Knife Torque wrench [14.0-62.0N•m(1.4-6.2kgf•m)] Gauge manifold Drain elbow 1 Electrical tape Wrench key (Hexagon) [4mm] Charge hose Vacuum pump adapter* (Anti-reverse flow type) Connecting pipe Tape measure Flaring tool set ' Connecting cable ower cable (g) Clamp and screw (for finishing work) *Designed specifically for R32 or R410A

2. OUTDOOR UNIT INSTALLATION

Note as a unit designed for R32

- Do not use any refrigerant other than R32. R32 will rise to pressure about 1.6 times higher than that of a conventional refrigerant. A cylinder containing R32 has a light blue indication mark on the top.
 Do not use a charge cylinder. The use of a charge cylinder will cause the refrigerant composition to change, which results in performance degradation.
- In charging refrigerant, always take it out from a cylinder in the liquid phase
- All indoor units must be models designed exclusively for R32. Check connectable indoor unit models in a catalog, etc. (A wrong indoor unit, if connected into the system, will impair proper system operation)

1. Haulage

- Always carry or move the unit with two or more persons.
 The right hand side of the unit as viewed from the front (outlet side) is

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

ole installation location where

- Unit will be stable, horizontal and free of any vibration transmission.

 There is no obstacle which can prevent smooth air circulation from inlet and outlet side of the unit.

 There is enough space for service and maintenance of unit.
- Neighbours are not bothered by noise or air generating from the unit.
 Outlet air of the unit does not blow directly to animals or plants.
 Drain water can be discharged properly.
 There is no risk of flammable gas leakage.

- There are no other heat sources nearby.
- Unit is not directly exposed to rain or sunlight.
 Unit is not directly exposed to oil mist and steam.
 Chemical substances like ammonia (organic fertilizer), calcium chloride (snow melting agent) and acid (sulfurous acid etc.), which can harm the unit, will not generate or accumulate
- Unit is not directly exposed to corrosive gases (like sulphide gas, chloride gas), sea breeze or salty atmosphere.

 No TV set or radio receiver is placed within 1m.

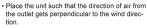
- Unit is not affected by electromagnetic waves and/or high-harmonic waves generated by other equipments.
 Strong wind does not blow against the unit outlet.
 Heavy snowfalls do not occur (If installed, provide proper protection to avoid snow accumulation).

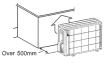
NOTE

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

(1) Location of strong wind

· Place the unit with its outlet side facing the wall.



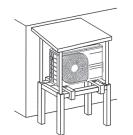




(2) Location of snow accumulation

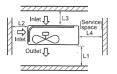
- · Install the unit on the base so that the bottom is higher than snow cover surface.

 Install the unit under eaves or provide the roof on



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.



	Installation space (mm)
L1	280 or more
L2	100 or more
L3	80 or more
L4	250 or more

NOTE

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

⚠ CAUTION

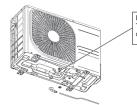
When more than one unit are installed in parallel directions, provide sufficient inlet space so that short-circuiting may not occur.

4. Drain piping work (If necessary)

Carry out drain piping work by using a drain elbow and a drain grommet supplied separately as accessories 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.



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.

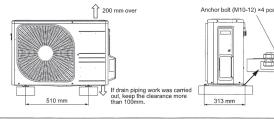
⚠ CAUTION

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

5. Installation

- Install the unit on a flat level base.

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



⚠ CAUTION

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

3. PREPARATION FOR WORK 1. Removing service cover 2. Removing terminal cover ve the screw. Slide service cover downwards and remove it. Remove the screw and take out terminal cover. (For SRC50, terminal cover is attached to service cover. Therefore, there is no need to remove terminal cover separately.) <SRC20/25/35> <SRC50> Terminal cover

4. CONNECTING PIPING WORK

1. Restrictions on unit installation

Abide by the following restrictions on unit installation.

Improper installation can cause compressor failure or performance degradation

	Dimensional restrictions	
	Model SRC20/25/35	Model SRC50
Connecting pipe length(L)	20m or less	25m or less
Elevation difference between indoor and outdoor units(H)*	10m or less	15m or less



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

2. Preparation of connecting pipe

2.1. Selecting connecting pipe

Select connecting pipe according to the following table

	-	-
	Model SRC20/25/35	Model SRC50
Gas pipe	ø9.52	ø12.7
Liquid pipe	ø6.35	ø6.35

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

NOTE

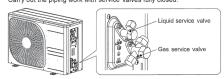
If it is required to reuse the existing connecting pipe system, refer to 5. UTILIZATION OF EXISTING PIPE.

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.

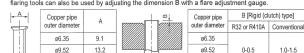
3. Piping work

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

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 R32 are different from those for conventional refrigerant. Although it is recommended to use the flaring tools designed specifically for R32 or R410A, conventional flaring tools can also be used by adjusting the dimension B with a flare adjustment gauge.

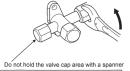


ø12.7

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

16.6

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



0-0.5

ø12.7

B [Rigid (clutch) type]

1.0-1.5

A CAUTION

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

5. UTILIZATION OF EXISTING PIPE

4. Evacuation

- (1) Connect vacuum pump to gauge manifold. Connect charge hose of gauge manifold to service port of outdoor unit.
- (2) 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 (-76cm Hg).
 (3) Confirm that the vacuum gauge indicator does not rise even if the system is left for 15 minutes or more. Vacuum gauge indicator will rise if the system has moisture left 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 suited back.

- (5) Remove valve caps from liquid service valve and gas operation valve.
 (6) Turn the liquid service valve's rod 90 degree counterclockwise with a hexagonal wrench key to
- open valve.

 Close it after 5 seconds, and check for gas leakage.

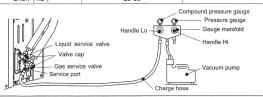
 Using soapy water, check for gas leakage from indoor unit's flare and outdoor unit's flare and valve rods.

 Wipe off all the water after completing the check.

 (7) Disconnect charging hose from gas service valve's service port and fully open liquid and gas service valves. (Do not attempt to turn valve rod beyond its stop.)

 (8) Tighten service valve caps and service port cap to the specified torque shown in the table below.

-		
Service valve size (mm)	Service valve cap tightening torque (N·m)	Service port cap tightening torque (N·m)
ø6.35 (1/4")	20-30	
ø9.52 (3/8")	20-30	10-12
10 7 (1/01)	25.25	



↑ CAUTION

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

5. Additional refrigerant charge

Additional refrigerant charge is required only when connecting pipe length exceeds 15 m.

5.1 Calculating additional refrigerant charge

Additional refrigerant charge can be calculated using the formula given below. Additional refrigerant charge (g) = { Connecting pipe length (m) – Factory charged length 15 (m) } \times 20 (g/m)

NOTE

- If additional refrigerant charge calculation result is negative, there is no need to remove the refrigerant.
 If refrigerant recharge is required for the unit with connecting pipe length 15m or shorter, charge the factory charged amount as shown in the table below.

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

5.2 Charging refrigerant

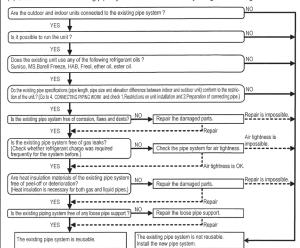
- 5.2 Charging refrigerant (1) Charge the R32 refrigerant in liquid phase from service port with both liquid and gas service valves shut. Since R32 refrigerant must be charged in the liquid phase, make sure that refrigerant is discharged from the cylinder in the liquid phase all the time.
 (2) When it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

⚠ CAUTION

Running the unit with an insufficient quantity of refrigerant for a long time can cause unit malfunction.

Do not charge more than the maximum refrigerant amount. It can cause unit malfunction.

(1) Check whether an existing pipe system is reusable or not by using the following flow chart



NOTE

- Consult with our distributor in the area, if you need to recover refrigerant and charge it again.

- (2) Clean the existing pipe system according to the procedure given below.

 (a) Carry out forced cooling operation of existing unit for 30 minutes.

 For 'Forced cooling operation' refer to the indoor unit installation manual.

 (b) Stop the indoor fan and carry out forced cooling operation for 3 minutes (Liquid return).

 (c) Close the liquid service valve of the outdoor unit and carry out pump down operation (Refer to 6. PUMP DOWN).

 (d) Blow with nitrogen gas. If discolored refrigeration oil or any foreign matter is discharged by the blow wash the pine system or install a new prine system.
- 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.

⚠ CAUTION

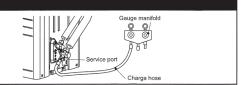
- Do not use the old flare nuts (of existing unit). Make sure that the flare nuts supplied with the (new) outdoor unit are used.
 If the flared / compression connection to the indoor unit is located inside the house / room then this pipework can't be reused.
- If the existing piping is specified as liquid pipe ø9.52 or gas pipe ø12.7, refer to the following. (SRC50
- only) <Table of pipe size restrictions

Additional charge volume per meter of pipe		0.054kg/m
Pipe size	Liquid pipe	ø9.52
	Gas pipe	ø12.7
Maximum one-way pipe length		10
Length covered without additional charge		5

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

6. PUMP DOWN

- (1) Connect charge hose of gauge manifold to service port of outdoor unit.
 (2) Close the liquid service valve with hexagonal wrench key.
 (3) Fully open the gas service valve with hexagonal wrench key.
 (4) Carry out forced cooling operation (For forced cooling operation procedure, refer to indoor unit installation
- (5) When the low pressure gauge becomes 0.01MPa, close the gas service valve and stop forced cooling



7. ELECTRICAL WIRING WORK

⚠ WARNING

- Make sure that all the electrical work is carried out in accordance with the national or regional electrical standards
- Make sure trust and the electrical marks of control and control and an acceptance of appropriate capacities are installed (Refer to the table given below).

 Do not turn on the power until the electrical work is completed.

 Do not use a condensive capacitor for power factor improvement under any circumstances. (It does not improve power factor. Moreover, it can cause an abnormal overheat accident).

Breaker specifications

Model	Phase	Earth leakage breaker	Circuit breaker
SRC20/25/35	6:!	Leakage current: 30mA,	Over current: 16A
SRC50	Single phase	0.1sec or less	Over current: 20A

Main fuse specification

Model	Specification	Parts No.	Code on LABEL, WIRING
SRC20/25/35	250V 15A	SSA564A136	F7
SRC50	250V 20A	SSA564A136A	F4

1.Preparing cable

(1) Selecting cable

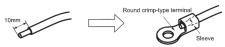
- Select the power source cable and connecting cable in accordance with the specifications mentioned below
- (a) Power source cable 3 cores* 2.5mm² or more, conformed with 60245 IEC57
- When selecting the power source cable length, make sure that voltage drop is less than 2%. If the wire length gets longer, increase the wire diameter. (b) Connecting cable 4 cores* 1.5mm², conformed with 60245 IEC57

*1 Earth wire is included (Yellow/Green).
Arrange each wire length as shown below.
Make sure that each wire is stripped 10mm from the end.



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

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



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.

2.Connecting cable

- (1) Remove the service cover.(2) Connect the cables according to the instructions and figures given below.
 - Connect the cables according to the instructions and figures given below.

 (a) Connect the earth wire of power source cable.

 An earth wire must be connected before connecting the other wires of power source cable.

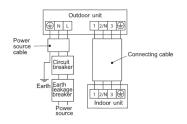
 Keep the earth wire longer than the remaining two wires of power source cable.

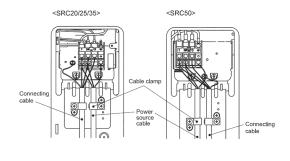
 (b) Connect the remaining two wires (N and L) of power source cable.

 (c) Connect the wires of connecting cable. Make sure that for each wire, outdoor and indoor side terminal numbers match.
- (3) Fasten the cables properly with cable clamps so that no external force may work on terminal connect

forms. Such as the 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>





8. FINISHING WORK

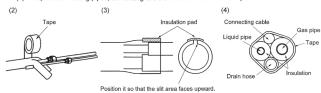
1. Heating and condensation prevention

- (1) Dress the connecting pipes (both liquid and gas pipes) with insulation to prevent it from heating and dew condensation.

 Use the heat insulating material which can withstand 120°C or higher temperature. Make sure that
- insulation is wrapped tightly around the pipes and no gap is left between them.
- (2) Wrap the refrigerant pipings of indoor unit with indoor unit heat insulation using tape.

 (3) Cover the flare-connected joints (indoor side) with the indoor unit heat insulation and wrap it with an insulation pad (standard accessory provided with indoor unit).

 (4) Wrap the connecting pipes, connecting cable and drain hose with the tape.



NOTE

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

⚠ CAUTION

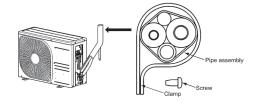
- Improper insulation can cause condensate(water) formation during cooling operation.
- Condensate can leak or drip causing damage to household property
- Poor heat insulating capacity can cause pipe outer surface to reach high temperature during heating operation. It can cause cable deterioration and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

2.Finishing work

- (1) Make sure that the exterior portion of connecting pipes, connecting cable and drain hose is wrapped properly with tape. Shape the connecting pipes to match with the contours of the pipe assembly route.

 (2) Fix the pipe assembly with the wall using clamps and screws. Pipe assembly should be anchored every 1.5m or less to isolate the vibration.

 (3) Install the service cover securely. Water may enter the unit if service cover is not installed properly, resulting in unit malfunction and failure.



⚠ CAUTION

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

9. INSTALLATION TEST CHECK POINTS

After finishing the installation work, check the following points again before turning on the powe 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.	

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

WALL TYPE AIR-CONDITIONER R32 REFRIGERANT USED

RSA012A061A



This equipment uses flammable refrigerants. If the refrigerant is leaked, together with an external ignition source, there is a possibility of ignition.



There is information included in the user's manual and/or installation manual.



The user's manual should be read carefully.

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

• The precautionary items mentioned below are distinguished into two levels, A WARNING and CAUTION.

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

⚠ CAUTION : Wrong installation might cause serious consequences depending on circumstances.

⚠ WARNING

- Strict compliance of the domestic laws must be observed when disposing the appliance.
- observed when disposing the appliance.
 Do not use means to accelerate the defrost operation process or to clean, other than those recommended by the manufacturer.
- The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater.
- Do not pierce or burn.
- Be aware that refrigerants may not contain an odour.
- The indoor unit shall be stored in a room that has a minimum area of 4.0 m².

⚠ CAUTION

1. General

- That the installation of pipe-work shall be kept to a minimum
- That pipe-work shall be protected from physical damage.
- That compliance with national gas regulations shall be observed.
 That mechanical connections shall be accessible
- That mechanical connections shall be accessible for maintenance purposes.
- Keep any required ventilation openings clear of obstruction.
- Servicing shall be performed only as recommended by the manufacturer.

2. Unventilated areas

 The appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specified for operation.

3. Qualification of workers

 The staff in servicing operations must hold the national qualification or other relevant qualifications.

4. Information on servicing

- 4.1 Checks to the area
- Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimised.
- For repair to the refrigerating system, 4.3 to 4.7 shall be completed prior to conducting work on the system.
- 4.2 Work procedure
- Work shall be undertaken under a controlled procedure so as to minimise the risk of a flammable gas or vapour being present while the work is being performed.
- 4.3 General work area
- All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out.
- · Work in confined spaces shall be avoided.
- The area around the workspace shall be sectioned off.
- Ensure that the conditions within the area have been made safe by control of flammable material.
- 4.4 Checking for presence of refrigerant
- The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially toxic or flammable atmospheres.
- Ensure that the leak detection equipment being used is suitable for use with all applicable refrigerants, i.e.
- non-sparking, adequately sealed or intrinsically safe.

- 4.5 Presence of fire extinguisher
- If any hot work is to be conducted on the refrigeration equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO₂ fire extinguisher adjacent to the charging area.
- 4.6 No ignition sources
- No person carrying out work in relation to a refrigeration system which involves exposing any pipe work shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion.
- All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which refrigerant can possibly be released to the surrounding space.
- Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks.
- "No Smoking" signs shall be displayed.
- 4.7 Ventilated area
- Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work.
- A degree of ventilation shall continue during the period that the work is carried out.
- The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.
- 4.8 Checks to the refrigeration equipment
- Where electrical components are being changed, they shall be fit for the purpose and to the correct specification
- At all times the manufacturer's maintenance and service guidelines shall be followed.
- If in doubt consult the manufacturer's technical department for assistance.
- The following checks shall be applied to installations using flammable refrigerants:
 - the charge size is in accordance with the room size within which the refrigerant containing parts are installed:
- the ventilation machinery and outlets are operating adequately and are not obstructed;
- if an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant;
- marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected;
- refrigeration pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

- 4.9 Checks to electrical devices
- Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures.
- If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with.
- If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used.
- This shall be reported to the owner of the equipment so all parties are advised.
- Initial safety checks shall include:
- that capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking;
- that no live electrical components and wiring are exposed while charging, recovering or purging the system;
- that there is continuity of earth bonding.

5. Repairs to sealed components

- During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc.
- If it is absolutely necessary to have an electrical supply to equipment during servicing, then a permanently operating form of leak detection shall be located at the most critical point to warn of a potentially hazardous situation.
- Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected.
- This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.
- Ensure that the apparatus is mounted securely.
- Ensure that seals or sealing materials have not degraded to the point that they no longer serve the purpose of preventing the ingress of flammable atmospheres.
- Replacement parts shall be in accordance with the manufacturer's specifications.

NOTE

The use of silicon sealant can inhibit the effectiveness of some types of leak detection equipment. Intrinsically safe components do not have to be isolated prior to working on them.

⚠ CAUTION

6. Repair to intrinsically safe components

- Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use.
- Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere.
- The test apparatus shall be at the correct rating
- Replace components only with parts specified by the manufacturer.
- Other parts may result in the ignition of refrigerant in the atmosphere from a leak

7. Cabling

Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans

8. Detection of flammable refrigerants

- Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks.
- A halide torch (or any other detector using a naked flame) shall not be used.

9. Leak detection methods

- Electronic leak detectors may be used to detect refrigerant leaks but, in the case of flammable refrigerants, the sensitivity may not be adequate, or may need re-calibration. (Detection equipment shall be calibrated in a refrigerant-free area.)
- Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used
- Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed, and the appropriate percentage of gas (25 % maximum) is
- Leak detection fluids are suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe-work.
- If a leak is suspected, all naked flames shall be removed/extinguished.
- If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak
- For appliances containing flammable refrigerants, oxygen free nitrogen (OFN) shall then be purged through the system both before and during the brazing process.

10. Removal and evacuation

- · When breaking into the refrigerant circuit to make repairs – or for any other purpose – conventional procedures shall be used. However, for flammable refrigerants it is important that best practice is
- followed since flammability is a consideration.
 The following procedure shall be adhered to:

 remove refrigerant;
- purge the circuit with inert gas;
- evacuate:
- purge again with inert gas;
- open the circuit by cutting or brazing. The refrigerant charge shall be recovered into the correct recovery cylinders.
- For appliances containing flammable refrigerants, the system shall be "flushed" with OFN to render
- the unit safe. This process may need to be repeated several times
- Compressed air or oxygen shall not be used for purging refrigerant systems.

- For appliances containing flammable refrigerants, flushing shall be achieved by breaking the vacuum in the system with OFN and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum. This process shall be repeated until no refrigerant is within the system.
- When the final OFN charge is used, the system shall be vented down to atmospheric pressure to enable work to take place.
- This operation is absolutely vital if brazing operations on the pipe-work are to take place. Ensure that the outlet for the vacuum pump is not
- close to any ignition sources and that ventilation is available

11. Charging procedures

- In addition to conventional charging procedures, the following requirements shall be followed
- Ensure that contamination of different refrigerants does not occur when using charging equipment. Hoses or lines shall be as short as possible to minimise the amount of refrigerant contained in
- Cylinders shall be kept upright.
- Ensure that the refrigeration system is earthed prior to charging the system with refrigerant
- Label the system when charging is complete (if not already).
- Extreme care shall be taken not to overfill the refrigeration system.
- Prior to recharging the system, it shall be pressure-tested with the appropriate purging gas.
- The system shall be leak-tested on completion of charging but prior to commissioning.

 A follow up leak test shall be carried out prior to
- leaving the site.

12. Decommissioning

- Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its detail
- It is recommended good practice that all refrigerants are recovered safely.
- Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of reclaimed refrigerant
- It is essential that electrical power is available before the task is commenced. a) Become familiar with the equipment and its
- operation.
- b) Isolate system electrically.
- c) Before attempting the procedure ensure that: mechanical handling equipment is available, if required, for handling refrigerant cylinders;
- all personal protective equipment is available and being used correctly;
- the recovery process is supervised at all times by a competent person;
- recovery equipment and cylinders conform to the appropriate standards.
- d) Pump down refrigerant system, if possible
- e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
- f) Make sure that cylinder is situated on the scales before recovery takes place.
- g) Start the recovery machine and operate in accordance with manufacturer's instructions.
- h) Do not overfill cylinders. (No more than 80 %
- volume liquid charge).

 Do not exceed the maximum working pressure of the cylinder, even temporarily.
- When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off
- k) Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked.

13. Labelling

- Equipment shall be labelled stating that it has been de-commissioned and emptied of refrigerant. The label shall be dated and signed.
- For appliances containing flammable refrigerants, ensure that there are labels on the equipment stating the equipment contains flammable refrigerant.

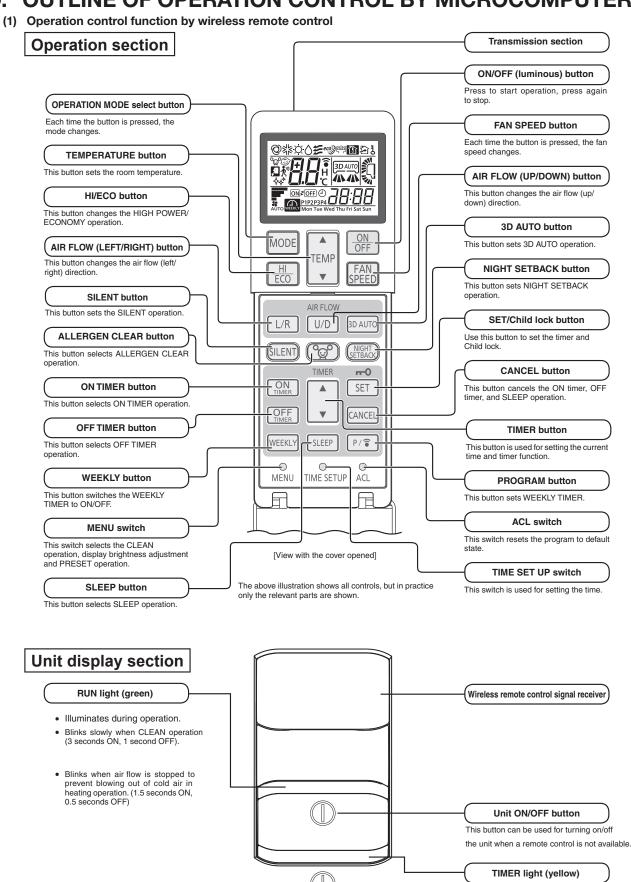
14. Recovery

- When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed
- When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed.
- Ensure that the correct number of cylinders for holding the total system charge are available.
- All cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (i.e. special cylinders for the recovery of refrigerant).
- Cylinders shall be complete with pressure relief valve and associated shut-off valves in good
- Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs.
- The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of all appropriate refrigerants
- including, when applicable, flammable refrigerants. In addition, a set of calibrated weighing scales shall be available and in good working order.
- Hoses shall be complete with leak-free disconnect couplings and in good condition. Before using the recovery machine, check that it
- is in satisfactory working order, has been properly maintained and that any associated electrical components are sealed to prevent ignition in the event of a refrigerant release.
- Consult manufacturer if in doubt.
- The recovered refrigerant shall be returned to the refrigerant supplier in the correct recovery cylinder, and the relevant Waste Transfer Note arranged. Do not mix refrigerants in recovery units and especially not in cylinders.
- If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant.
- The evacuation process shall be carried out prior to returning the compressor to the suppliers.
- Only electric heating to the compressor body shall
- be employed to accelerate this process. When oil is drained from a system, it shall be carried out safely.

(15. Other safety precautions

- A brazed, welded, or mechanical connection shall be made before opening the valves to permit refrigerant to flow between the refrigerating system parts.
- Flammable refrigerant used, refrigerant tubing protected or enclosed to avoid mechanical damage (IEC/EN 60335-2-40/A1).
- Tubing protected to extent that it will not be handled or used for carrying during moving of product (IEC/ EN 60335-2-40/A1).
- Flammable refrigerant used, low temperature solder alloys, such as lead/tin alloys, not acceptable for pipe connections (IEC/EN 60335-2-40/A1).
- When there is flare connection, it must be installed outdoor

9. OUTLINE OF OPERATION CONTROL BY MICROCOMPUTER



• RUN and TIMER lights blink quickly during invalid operation mode.

Illuminates during TIMER operation.

(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.

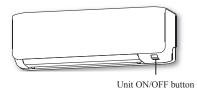
(a) Operation

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 or HEAT modes.

Function Operation mode	Room temperature setting	Fan speed	Flap/Louver	Timer switch
COOL	About 24°C	Auto	Auto	Continuous
HEAT	About 26°C	Auto	Auto	Continuous

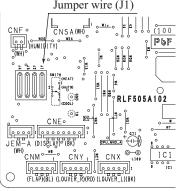


(3) Auto restart function

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

Notes (1) Auto restart function is set at on when the air-conditioner is shipped from the factory. Consult with your dealer if this function needs to be switched off.

- (2) When power failure ocurrs, the timer setting is cancelled. Once power is resumed, reset the timer.
- (3) If the jumper wire (J1) "AUTO RESTART" is cut, auto restart is disabled. (See the diagram at right.)



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

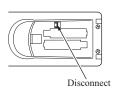
In case two air-conditioners are installed in the same room, apply this setting so that one unit can be operated with only one remote control.

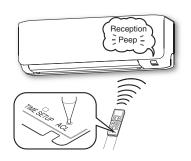
(a) Setting the wireless remote control

- (i) Slide the cover and take out the batteries.
- (ii) Disconnect the switching line next to the battery with wire cutters.
- (iii) Set the batteries and cover again.

(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.)





Jumper wire (J3)

(5) Selection of the annual cooling function

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

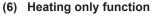
Jumper wire (J3)	Interface kit (SC-BIKN2-E) SW2-4	Function
Shorted	ON	Enabled
Shorted	OFF	Disabled
Open	ON	Disabled
Open	OFF	Disabled

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

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

(b) Content of control

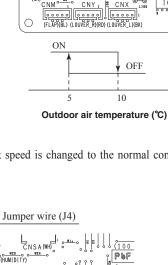
- (i) If the outdoor air temperature sensor (TH2) detects below 5°C, the indoor unit speed is switched to 7th step.
- (ii) If the outdoor air temperature sensor (TH2) detects higher than 10°C, the indoor unit speed is changed to the normal control speed.

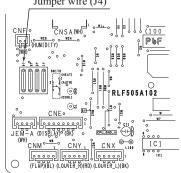


(a) Heating only function is enabled by disconnecting the jumper wire (J4).

(b) Content of control

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





(7) High power operation

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

- (a) During the HIGH POWER operation, the room temperature is not controlled. When it causes an excessive cooling and heating, press the HI POWER/ECONOMY button again to cancel the HIGH POWER operation.
- (b) HIGH POWER operation is not available during the DRY and the ON timer to OFF timer operations.
- (c) When HIGH POWER operation is set after ON timer operation, HIGH POWER operation will start from the set time.
- (d) When the following operation are set, HIGH POWER operation will be cancelled.
 - ① When the HI POWER/ECONOMY button is pressed again.
 - ② When the operation mode is changed.
 - ③ When it has been 15 minutes since HIGH POWER operation has started.
 - 4 When the 3D AUTO botton is pressed.
 - 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) Economy operation

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

- (a) It will go into ECONOMY operation at the next time the air-conditioner runs in the following cases.
 - ① When the air-conditioner is stopped by ON/OFF button during ECONOMY operation.
 - ② When the air-conditioner is stopped in SLEEP or OFF TIMER operation during ECONOMY operation.
 - ③ When the operation is retrieved from CLEAN or ALLERGEN CLEAR operation.
- (b) When the following operation are set, ECONOMY operation will be cancelled.
 - ① When the HI POWER/ECONOMY button is pressed again.
 - ② When the operation mode is changed from DRY to FAN.
 - ③ When the NIGHT SETBACK botton is pressed.
- (c) Not operable while the air-conditioner is OFF.
- (d) The setting temperature is adjusted according to the following table.

Item Mode	Cooling	Heating
T	1+0.5	①-1.0
Temperature adjustment	②+1.0	2-2.0
<i>y</i>	③+1.5	3-2.5

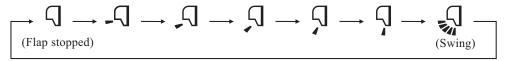
- ① at the start of operation.
- ② one hour after the start of operation.
- 3 two hours after the start of operation.

(9) Air flow direction adjustment

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

(a) Flap

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

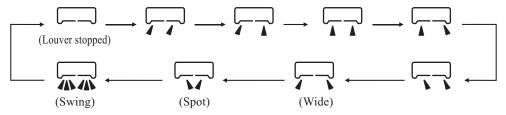


Angle of flap from horizontal

Wireless remote control display	-7	, J	Ţ	Ş	Ş
COOL, DRY, FAN	Approx. 25°	Approx. 30°	Approx. 40°	Approx. 50°	Approx. 60°
HEAT	Approx. 25°	Approx. 35°	Approx. 50°	Approx. 60°	Approx. 70°

(b) Louver

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



· Angle of louver

Wireless remote control display					
Center installation	Left approx. 50°	Left approx. 20°	Center	Right approx. 20°	Right approx. 50°
Right end installation	Left approx. 50°	Left approx. 45°	Left approx. 30°	Center	Right approx. 20°
Left end installation	Left approx. 20°	Center	Right approx. 30°	Right approx. 45°	Right approx. 50°

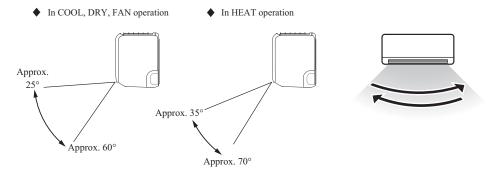
(c) Swing

(i) Swing flapFlap 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 swinging at the position. Since this angle is memorized in the microcomputer, the flap or louver will automatically be set at this angle when the next operation is started.

(10) 3D auto operation

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

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

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

Operation mode	Air flow selection				
AUTO		JTO	HI	MED	LO
Cooling	Room temp. – Setting temp. >5°C	Room temp. – Setting temp. $\leq 5^{\circ}$ C			
Cooling	HIGH POWER	AUTO	НІ	MED	LO
Heating	Setting temp. – Room temp. >5°C	Setting temp. – Room temp. ≦ 5°C	111	MILD	LO
Heating	HIGH POWER	AUTO			<u> </u>

- (ii) Air flow direction is controlled according to the room temperature and setting temperature.
 - 1) When 3D auto operation starts

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

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

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

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

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

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

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

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

Operation mode		Air flow direction contorol			
Cooling	Room temp. – Setting temp. ≦2°C	2°C < Room temp. – Setting temp. ≦5°C	Room temp. – Setting temp. > 5°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°C < Setting temp. – Room temp. ≦5°C	Setting temp. – Room temp. > 5°C		
пеаннд	The control in 4) continues.	Control returns to the control in 2).	Control returns to the control in 1).		

(b) During DRY operation

Flap	Horizontal blowing (Fixed)
Louver	Wide (Fixed)

(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.

	SRK20 Cooling Heating (SRI	K25	SRI	K35	SRK50		
			Cooling	Cooling Heating		Heating	Cooling Heatin		
Outdoor fan speed (Upper limit)	4th speed	4th speed	4th speed	4th speed	5th speed	4th speed	4th speed	4th speed	
Compressor speed (Upper limit)	30 rps	46 rps	37 rps	49 rps	46 rps	56 rps	46 rps	70rps	

(13) Night setback operation

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

(14) Air flow range setting

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

(a) Setting

- (i) If the air-conditioning unit is running, press the ON/OFF button to stop.The installation location setting cannot be made while the unit is running.
- (ii) Press the AIR FLOW U/D (UP/DOWN) button and the AIR FLOW L/R (LEFT/RIGHT) button together for 5 seconds or more.

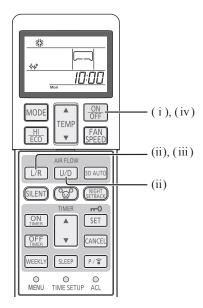
The installation location display illuminates.

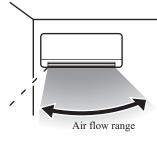
(iii) Setting the air-conditioning installation location.

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

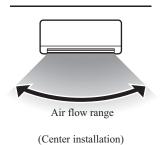
Each time the AIR FLOW L/R (LEFT/RIGHT) button is pressed, the indicator is switched in the order of:

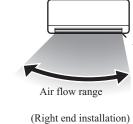












(iv) Press the ON/OFF button.

The air-conditioner's installation location is set.

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

(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) Outline of heating operation

(a) Operation of major functional components in heating mode

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

^{*}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 Fan speed	SRK20	SRK25	SRK35	SRK50		
Auto	20-115rps	20-115rps	20-115rps	20-110rps		
HI	20-115rps	20-115rps	20-115rps	20-110rps		
MED	20-86rps	20-104rps	20-108rps	20-106rps		
LO	20-70rps	20-84rps	20-96rps	20-94rps		
ULO	20-44rps	20-54rps	20-60rps	20-63rps		

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

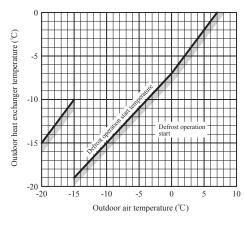
(ii) Hot keep operation

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.

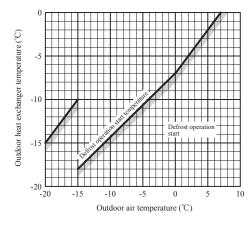
(c) Defrost operation

- (i) Starting conditions (Defrost operation can be started only when all of the following conditions are satisfied.)
 - 1) After start heating operation
 - When it elapsed 35 minutes. (Total compressor operation time)
 - 2) After finish of defrost operation
 - When it elapsed 35 minutes. (Total compressor operation time)
 - 3) 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.

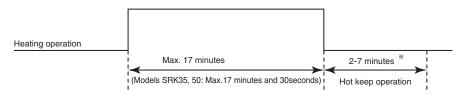
Models SRK20, 25



Models SRK35, 50



- 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 (model SRK50 : 10°C) or higher
 - Continued operation time of defrost operation → For more than 17 minutes (models SRK35, 50: 17 minutes and 30 seconds).
 - Defrost operation



%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".

(ii) Contents of control

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 "PiPiPi".

(17) 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 motor	ON	ON	OFF							
Outdoor fan motor	ON	OFF (few minutes ON)	OFF (few minutes ON)							
4-way valve	OFF	OFF	OFF							

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

(i) Fuzzy operation

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

Model Fan speed	SRK20	SRK25	SRK35	SRK50
Auto	15-66rps	15-74rps	15-98rps	20-100rps
HI	15-66rps	15-74rps	15-98rps	20-100rps
MED	15-52rps	15-60rps	15-80rps	20-82rps
LO	15-42rps	15-48rps	15-70rps	20-66rps
ULO	15-34rps	15-38rps	15-46rps	20-40rps

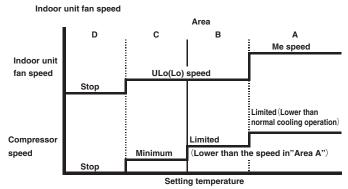
(18) Outline of dehumidifying (DRY) operation

(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 checks the current area by every 5 minutes, and operates by the next checking.

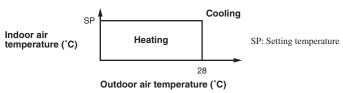
(c) Other

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

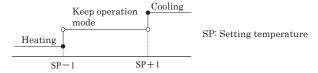
(19) Outline of automatic operation

(a) Determination of operation mode

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



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



Indoor air temperature – Setting temperature (°C)

%It can not be changed to heating mode if outdoor air temperature is 28% 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 DRY mode, 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: °C

		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	20	21	22	23	24	25	26	27	28	29	30	31	32

(e) When the unit is operated automatically with the wired remote control, the cooling operation is controlled according to the display temperatures while the setting temperature is compensated by $+2^{\circ}$ C during heating.

(20) Protective control function

Dew prevention control (During cooling)

Prevents dewing on the indoor unit. (SRK35, 50 only)

Operating conditions

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

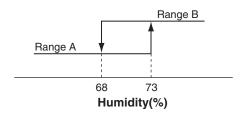
- Compressor's speed is 32 (model SRK50:28) rps or higher.
- 2) Detected value of humidity is 68% or higher.

(ii) Contents of operation

Air capacity control 1)

Item	Model	SRK35	SRK50
LO	Upper limit of compressor's speed	RangeA: 60rps, RangeB: 60rps	RangeA: 62rps, RangeB: 50ps
LO	Indoor fan	5th speed	4th speed
	Upper limit of compressor's speed	RangeA: 60rps, RangeB: 60rps	RangeA: 62rps, RangeB: 50rps
AUTO,HI,MED	In do on Con	Adaptable to co	empressor speed
	Indoor fan	(Lower limit 5th speed)	(Lower limit 4th speed)

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



- 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%.

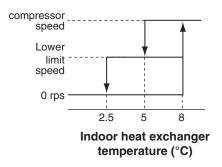
(b) Frost prevention control (During cooling or dehumidifying)

Operating conditions

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

(ii) Detail of anti-frost operation

Indoor heat exchanger temperature	5°C or lower	2.5°C or lower	
Lower limit of compressor command speed	22 rps(model SRK50 : 23 rps)	0 rps	
Indoor fan	Depends on operation mode	Keep the fan speed before frost prevention control	
Outdoor fan	Depends on compressor speed	Donon do on oton modo	
4-way valve	OFF	Depends on stop mode	



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.

When the indoor heat exchanger temperature is in the range of 5–8°C, the compressor speed is been maintained.

(iii) Reset conditions

When either of the following condition is satisfied.

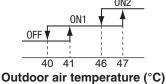
- 1) The indoor heat exchanger temperature (Th2) is 8°C or higher.
- 2) The compressor speed is 0 rps.

(c) Cooling overload protective control

Operating conditions

When the outdoor air temperature (TH2) has become continuously for 30 seconds at 41°C or more, or 47°C or more with the compressor running, the lower limit speed of compressor is brought up.

Model	SRK20-35		SRK50	
Outdoor air temperature	41°C or more	47°C or more	41°C or more	47°C or more
Lower limit speed	30 rps	45 rps	27 rps	35 rps



(ii) Detail of operation

- 1) The outdoor fan is stepped up by 3 speed step. [Upper limit 8 (model SRK50: 8) th speed.]
- 2) The lower limit of compressor speed is set to 30 or 45 (model SRK50: 27 or 35) rps. However, when the thermo OFF, the speed is reduced to 0 rps.

(iii) Reset conditions

When either of the following condition is satisfied.

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

(d) Cooling high pressure control

Purpose

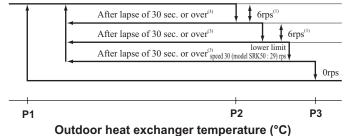
Prevents anomalous high pressure operation during cooling.

Detector

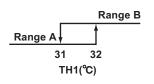
Outdoor heat exchanger sensor (TH1).

(iii) Detail of operation

(Example) Compressor speed



	TH1(℃)			
		P1	P2	Р3
SRK20, 25	Range A	47	50	53
	Range B	53	58	63
SRK35, 50	Range A	48	53	55
	Range B	53	58	63



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

(e) Cooling low outdoor air temperature protective control

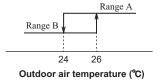
Operating conditions

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

(ii) Detail of operation

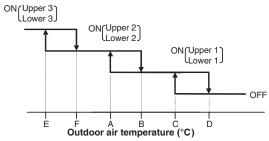
- It controls the upper and lower limit values for the compressor speed according to the following table. 1)
- It checks the outdoor temperature (TH2) once every hour to judge the operation range.

	Compressor speed: Upper/lower limit (rps)						
	Lower 1 Range B Range A		Upper 1	Lower 2	Upper 2	Lower 3	Upper 3
SRK20, 25, 35	30	Release	60	44	50	50	50
SRK50	27	Release	60	44	50	_	_



When the outdoor heat exchanger temperature is 13°C or higher, the compressor is stopped.

When the outdoor heat exchanger temperature is in the range of P1-P2°C, if the compressor speed is been maintained and the operation has continued for more than 30 seconds at the same speed, it returns to the normal cooling operation.



• Values of A, B, C, D, E, F (Models SRK20-35)

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

• Values of A, B, C, D (Model SRK50)

	Outdoor air temperature (°C)				
	Α	В	С	D	
First time	9	11	22	25	
After the second times	16	19	25	28	

(iii) **Reset conditions**

When either of the following condition is satisfied.

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

(f) Heating high pressure control

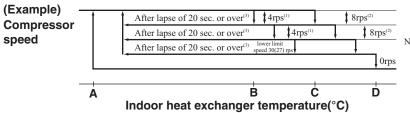
Purpose

Prevents anomalous high pressure operation during heating.

Detector

Indoor heat exchanger sensor (Th2)

Detail of operation



Note (1) Value in () are for the model SRK50.

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

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

Temperature list Models SRK20, 25, 35

U						
	Α	В	С	D		
RPSmin < 50	47	52	54	58		
50 ≦ RPSmin < 92	47.5	55	57	61		
92 ≦ RPSmin ≦ 115	47.5 - 39	55 - 40	57 - 42	61		

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

Model SRK50

Model SHV20				Unit: °C
	Α	В	С	D
RPSmin < 35	49	54	55	55.5
35 ≦ RPSmin < 40	49 - 52	54 - 57	55 - 58	55.5 - 62
40 ≦ RPSmin < 80	52	57	58	62
80 ≦ RPSmin < 95	52 - 48.1	57 - 52.2	58 - 53.2	62 - 56
95 ≦ RPSmin < 115	48.1 - 43	52.2 - 46	53.2 - 47	56 - 50.5
115 ≦ RPSmin	43	46	47	50.5

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

(g) Heating overload protective control

Outdoor unit side

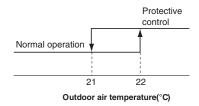
• Models SRK20, 25, 35

Operating conditions

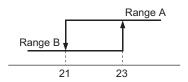
When the outdoor air temperature (TH2) is 22°C or higher continues for 30 seconds while the compressor speed other than 0 rps.

2) Detail of operation

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



Compress	or speed : U			
Lower limit		Upper limit	Outdoor fan speed	
Range A	Range B	Оррег ппп		
40	Release	60	2nd	



Indooor air temperature(°C)

3) Reset conditions

The outdoor air temperature (TH2) is lower than 21°C.

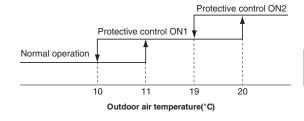
• Model SRK50

1) Operating conditions

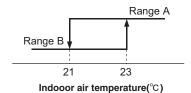
When the outdoor air temperature (TH2) is 11°C or higher continues for 30 seconds while the compressor speed other than 0 rps.

2) Detail of operation

- a) Taking the upper limit of compressor speed range at 90 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 27 rps and even if the calculated result becomes lower than that after fuzzy calculation, the speed is kept to 27 rps. However, when the thermostat OFF, the speed is reduced to 0 prs.
- c) Inching prevention control is activated and inching prevention control is carried out with the minimum speed set at 27 rps.
- d) Refer to the right table about the outdoor fan speed.



	Compressor	speed : Upper/			
	Lower limit		Upper limit	Outdoor fan speed	
	Range A	Range B	Оррег ини	•	
ON1	27	Release	90	It depends on compressor speed	
ON2	27	27	60	2nd	



3) Reset conditions

The outdoor air temperature (TH2) is lower than 10°C.

(h) Heating low outdoor temperature protective control

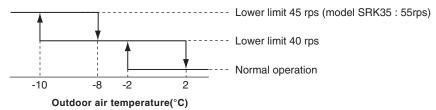
• Models SRK20, 25, 35

(i) Operating conditions

When the outdoor air temperature (TH2) is lower than -2°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.



(iii) Reset conditions

When either of the following condition is satisfied.

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

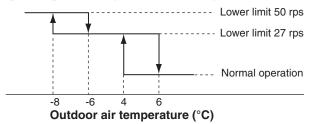
Model SRK50

(i) Operating conditions

When the outdoor air temperature (TH2) is lower than 4°C or higher than 13°C 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.



(iii) Reset conditions

When either of the following condition is satisfied.

- 1) The outdoor air temperature (TH2) becomes 6°C.
- The compressor speed is 0 rps.

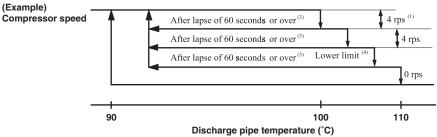
(i) Compressor overheat protection

(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.



Notes (1) When the discharge pipe temperature is in the range of 100-110°C, the speed is reduced by 4 rps.

- (2) When the discharge pipe temperature is raised and continues operation for 20 seconds without changing, then the speed is reduced again by 4 rps.
- (3) If the discharge pipe temperature is in the range of 90-100°C even when the compressor speed is maintained for 60 seconds when the temperature is in the range of 90-100°C, the speed is raised by 1 rps and kept at that speed for 60 seconds. This process is repeated until the command speed is reached.

(4) Lower limit speed

Model	Item	Cooling	Heating
	SRK20 - 35	15 rps	20 rps
Lower limit speed	SRK50	20 rps	20 rps

2) If the temperature of 110°C is detected by the sensor on the discharge pipe, then the compressor will stop immediately. When the discharge pipe temperature drops and 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 ↔ outdoor signals.

(ii) Detail of operation

If the compressor is operating and a serial signal cannot be received from the indoor control with outdoor control having serial signals continues for 7 minutes and 35 seconds, the compressor is stopped.

After the compressor has been stopped, it will be restarted after the compressor start delay if a serial signal can be received again from the indoor control.

(o) Rotor lock

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

(p) Outdoor fan motor protection

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

(q) Outdoor fan control at low outdoor temperature

(i) Cooling

1) Operating conditions

When the outdoor air temperature (TH2) is 22°C or lower continues for 30 seconds while the compressor speed is other than 0 rps.

2) Detail of operation

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

Value of A

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

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 24°C or higher.
- b) The compressor command speed is 0 rps.

(ii) Heating

1) Operating conditions

When the outdoor air temperature (TH2) is 0°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 2°C or higher.
- b) The compressor speed is 0 rps.

(r) Refrigeration cycle system protection

(i) Starting conditions

- 1) When 5 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 temperature (Th1) and indoor heat exchanger temperature (Th2) have satisfied the conditions in the following table for 5 minutes.

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

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

(ii) Contents of control

- 1) When the conditions of (i) above are satisfied, the compressor stops.
- 2) Error stop occurs when the compressor has stopped 3 times within 60 minutes.

(iii) Reset condition

When the compressor has been turned OFF

10. MAINTENANCE DATA

(1) Cautions

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

(2) Items to check before troubleshooting

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

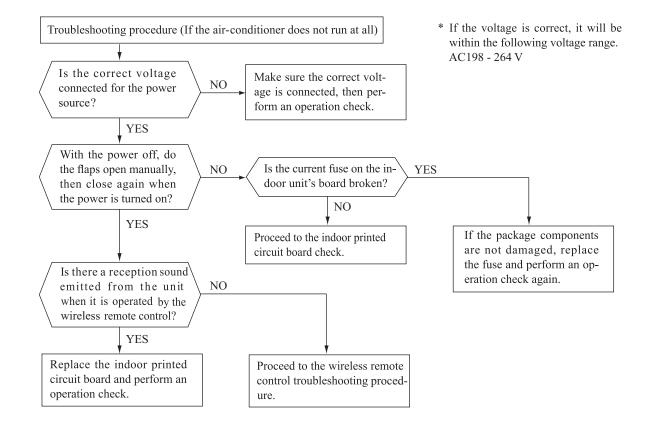
(3) Troubleshooting procedure (If the air-conditioner does not run at all)

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

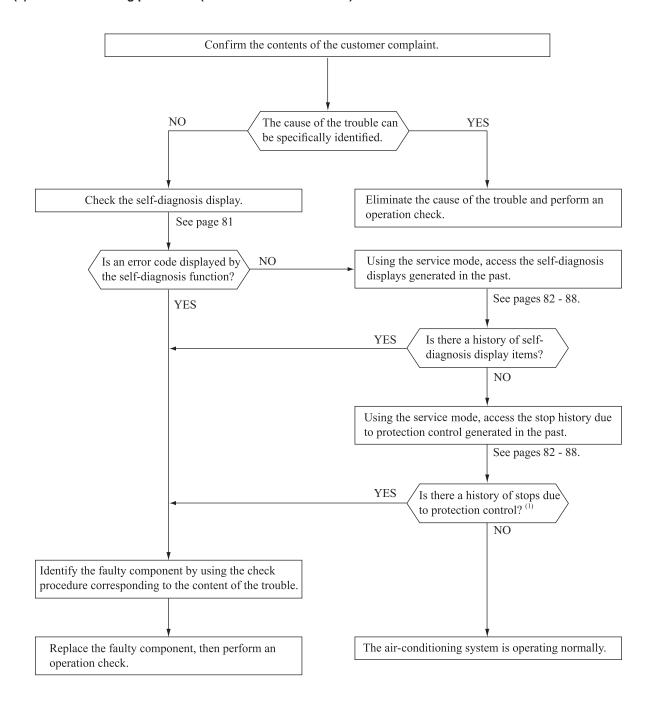
Important

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

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



(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 display panel Wired (2)				-			
RUN light	TIMER light	control display		Cause	Display (flashing) condition		
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 $300~\text{min}^{-1}$ or lower is measured for $30~\text{seconds}$ 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 wire Compressor blockage	When there is an emergency stop caused by trouble in the outdoor unit, or the input current value is found to be lower than the set value. (The air-conditioner stops.)		
ON	3-time flash	E 58	Current safe stop	Overload operationOverchargeCompressor locking	When the compressor speed is lower than the set value and the curren 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 minutes 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.		
7-time flash	1-time flash	E 40	Service valve (gas side) closed opertion	Service valve (gas side) closed Defective outdoor PCB	If the output current of inverter exceeds the specifications, it makes the compressor stopping. (In heating mode). After 3-minute delay, the compressor restarts, but if this anomaly occurs 2 times within 20 minutes after the initial detection.		
_	_	E 1	Error of wired remote control wiring	Broken wired remote control wire, defective indoor 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.)		

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

(2) The wired remote control is option parts.

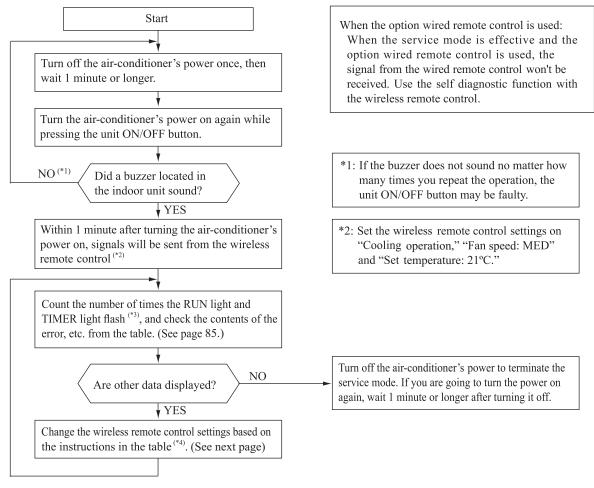
(6) Service mode (Trouble mode access function)

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

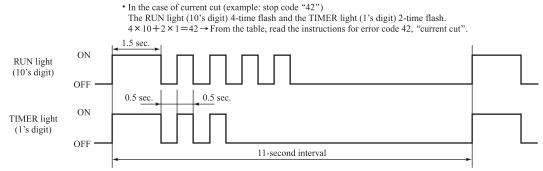
(a) Explanation of terms

Term	Explanation
Service mode	The service mode is the mode where service data are displayed by flashing of the display lights when the operations in item (b) below are performed with the indoor control.
Service data These are the contents of error displays and protective stops which occurred in the past in 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 heat exchanger, outdoor air temperature, discharge pipe), remote control information (operation switching, fan speed switching) are recorded when trouble occurs, so more detailed information can be checked.
Stop data	These are the data which display the reason by a stop occurred when the air-conditioning system performed protective stops, etc. in the past. Even if stop data alone are generated, the system restarts automatically. (After executing the stop mode while the display is normal, the system restarts automatically.) Data for up to 10 previous occasions are stored. Data older than the 10th previous occasion are erased. (Important) In cases where transient stop data only are generated, the air-conditioner system may still be normal. However, if the same protective stop occurs frequently (3 or more times), it could lead to customer complaints.

(b) Service mode display procedure



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



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

(i) Self-diagnosis data

What are self-diagnosis data?

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

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

Wireless remote control setting		Contents of cultural 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	
MED Displays the outdoor air temperature sensor temperature at the time the error code was displ		Displays the outdoor air temperature sensor temperature at the time the error code was displayed in the past.	
Heating HI		Displays the outdoor heat exchanger sensor temperature at the time the error code was displayed in the past.	
AUTO Displays the discharge pipe sensor to		Displays the discharge pipe sensor temperature at the time the error code was displayed in the past.	

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

Only for indoor heat exchanger sensor 2

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

(Example)

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

(ii) Stop data

Wireless	Wireless remote control setting			
Operation mode	Fan speed mode	Temperature setting	Displayed data	
		21°C	Displays the reason for the stop (stop code) the previous time when the air-conditioner was stopped by protective stop control.	
		22°C	Displays the reason for the stop (stop code) 2 times previous when the air-conditioner was stopped by protective stop control.	
		23°C	Displays the reason for the stop (stop code) 3 times previous when the air-conditioner was stopped by protective stop control.	
		24°C	Displays the reason for the stop (stop code) 4 times previous when the air-conditioner was stopped by protective stop control.	
Cooling	LO	25°C	Displays the reason for the stop (stop code) 5 times previous when the air-conditioner was stopped by protective stop control.	
Cooming	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.	

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

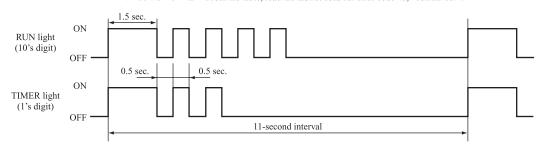
	shes when in e mode	Stop coad				F	
RUN light	TIMER light (1's digit)	or Error coad	Error content	Cause	Occurrence conditions	Error display	Aut
	OFF	0	Normal	_	_	_	-
OFF	1-time flash	01	Error of wired remote control wiring	Broken wired remote control wire. defective indoor PCB	The wired remote control 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.	_	
	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)	
	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)	
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 intial detection of this anomalous temperature. Or-55°C lower is detected for 5 seconds continuously within 20 seconds after power ON.	(3 times)	
	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)	
	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 intial detection of this anomalous temperature.	(3 times)	
	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)	(
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.	(2 times)	(
	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)	
	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)	
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.	_	
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	
	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)	
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 minutes 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' 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.	_	
	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.	_	
	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.	_	

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.)

• In the case of current cut (example: stop code "42")

The RUN light (10's digit) 4-time flash and the TIMER light (1's digit) 2-time flash.

4×10+2×1=42→ From the table, read the instructions for error code 42, "current cut".



(2) Error display:
— Is not displayed. (automatic recovery only)

O Displayed.

If there is a () displayed, the error display shows the number of times that an auto recovery occurred for the same reason

has reached the number of times in ().

If no () is displayed, the error display shows that the trouble has occurred once.

(3) Auto Recovery: — Does not occur

O Auto recovery occurs.

(d) Operation mode, Fan speed mode information tables

(i) Operation mode

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

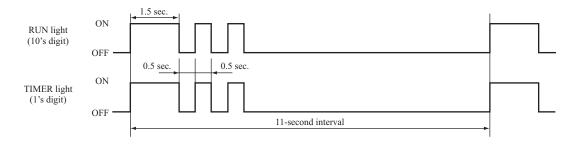
(ii) Fan speed mode

Display pattern when in service mode	Fan speed mode when	
TIMER light (1's digit)	there is an abnormal stop	
_	AUTO	
2-time flash	HI	
3-time flash	MED	
4-time flash	LO	
5-time flash	ULO	
6-time flash	HI POWER	
7-time flash	ECONO	

^{*} If no data are recorded (error code is normal), the information display in the operation mode and fan speed mode becomes as follows.

Mode	Display when error code is normal.
Operation mode	AUTO
Fan speed mode	AUTO

(Example): Operation mode: COOL, Fan speed mode: HI



(e) Temperatare information

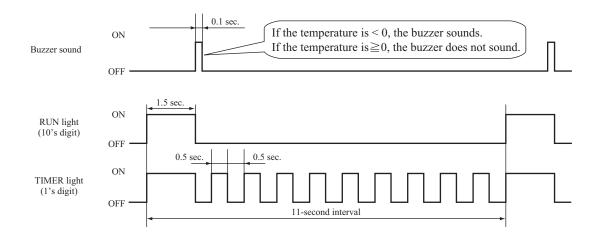
(i) Room temperature sensor, indoor heat exchanger sensor, outdoor air temperature sensor, outdoor heat exchanger sensor temperature

										U	nit: °C
RUN lig (10's di	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
(000.000)	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

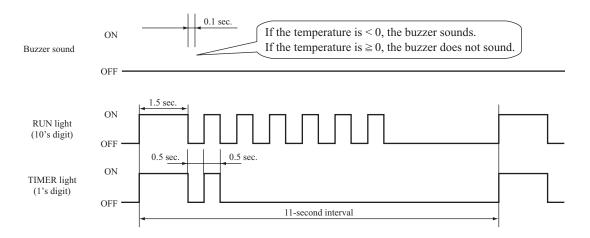
										Uı	nit: °C
	TIMER light (1's digit)										
RUN light (10's digit) Buzzer sound		0	1	2	3	4	5	6	7	8	9
	3	-60	-62	-64							
Yes	2	-40	-42	-44	-46	-48	-50	-52	-54	-56	-58
(sounds for 0.1 second)	1	-20	-22	-24	-26	-28	-30	-32	-34	-36	-38
	0		-2	-4	-6	-8	-10	-12	-14	-16	-18
	0	0	2	4	6	8	10	12	14	16	18
	1	20	22	24	26	28	30	32	34	36	38
	2	40	42	44	46	48	50	52	54	56	58
No	3	60	62	64	66	68	70	72	74	76	78
(does not sound)	4	80	82	84	86	88	90	92	94	96	98
	5	100	102	104	106	108	110	112	114	116	118
	6	120	122	124	126	128	130	132	134	136	138
	7	140	142	144	146	148	150				

* If no data are recorded (error code is normal), the display for each temperature information becomes as shown below.

Sensor name	Sensor value displayed when the error code is normal
Discharge pipe sensor	-64°C

(Example) Discharge pipe temperature data: "122°C"

* In the case of discharge pipe data, multiply the reading value by 2. (Below, $61 \times 2 = \text{``122°C''}$)



Service data record form

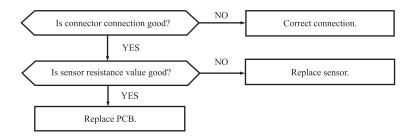
Customer			M	odel				
Date of inv								
Machine na								
Content of								
	emote contro		Content of displayed data			Display resul		Display conter
emperature setting	Operation mode	Fan speed mode	Content of displayed data		Buzzer (Yes/No.)	RUN light (Times)	TIMER light (Times)	
		MED	Error code on previous occasion.					
	Cooling	HI	Room temperature sensor on previous occasion.					
		AUTO	Indoor heat exchanger sensor 1 on previous occa	sion.				
21		LO	Wireless remote control information on previous	occasion.				
	Heating	MED	Outdoor air temperature sensor on previous occas	sion.				
	ricating	HI	Outdoor heat exchanger sensor on previous occas	sion.				
		AUTO	Discharge pipe sensor on previous occasion.					
26	Cooling	AUTO	Indoor heat exchanger sensor 2 on previous occa	sion.				
		MED	Error code on second previous occasion.					
	Cooling	HI	Room temperature sensor on second previous occ	casion.				
		AUTO	Indoor heat exchanger sensor 1 on second previous	occasion.				
22		LO	Wireless remote control information on second p	previous occasion.				
	IIti	MED	Outdoor air temperature sensor on second previo	us occasion.				
	Heating	HI	Outdoor heat exchanger sensor on second previo	us occasion.				
		AUTO	Discharge pipe sensor on second previous occasi	on.				
27	Cooling	AUTO	Indoor heat exchanger sensor 2 on second occasi	on.				
		MED	Error code on third previous occasion.					
	Cooling	HI	Room temperature sensor on third previous occa	sion.				
	AUTO		Indoor heat exchanger sensor 1 on third previous	occasion.				
23	LO		Wireless remote control information on third pre	evious occasion.				
		MED	Outdoor air temperature sensor on third previous	occasion.				
	Heating	HI	Outdoor heat exchanger sensor on third previous	occasion.				
		AUTO	Discharge pipe sensor on third previous occasion	ı.				
28	Cooling	AUTO	Indoor heat exchanger sensor 2 on third occasion	l.				
		MED	Error code on fourth previous occasion.					
	Cooling HI		Room temperature sensor on fourth previous occ	asion.				
		AUTO	Indoor heat exchanger sensor 1 on fourth previou	is occasion.				
24		LO	Wireless remote control information on fourth p	revious occasion.				
		MED	Outdoor air temperature sensor on fourth previou	is occasion.				
	Heating	HI	Outdoor heat exchanger sensor on fourth previou	is occasion.				
		AUTO	Discharge pipe sensor on fourth previous occasion	on.				
29	Cooling	AUTO	Indoor heat exchanger sensor 2 on fouth occasion					
		MED	Error code on fifth previous occasion.					
	Cooling	HI	Room temperature sensor on fifth previous occas	sion.				
		AUTO	Indoor heat exchanger sensor 1 on fifth previous					
25		LO	Wireless remote control information on fifth pre					
		MED	Outdoor air temperature sensor on fifth previous					
	Heating	HI	Outdoor heat exchanger sensor on fifth previous					
		AUTO	Discharge pipe sensor on fifth previous occasion.					
30	Cooling	AUTO	Indoor heat exchanger sensor 2 on fifth occasion.					
21		11010	Stop code on previous occasion.	•				
22			Stop code on second previous occasion.					
23			Stop code on third previous occasion.					
24			Stop code on fourth previous occasion.					
25			Stop code on fifth previous occasion.					
26	Cooling	LO	Stop code on sixth previous occasion.					
27			Stop code on seventh previous occasion.					
28								
28			Stop code on eighth previous occasion.					
30			Stop code on finth previous occasion.					
Judgment			Stop code on tenth previous occasion.					E:
	1							Examiner

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 83.)

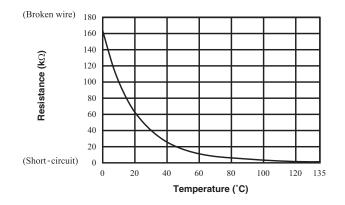
(7) Inspection procedures corresponding to detail of trouble

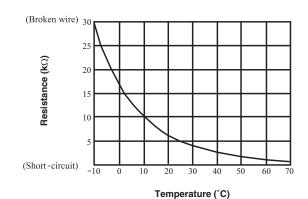
Sensor error

Broken sensor wire, connector poor connection



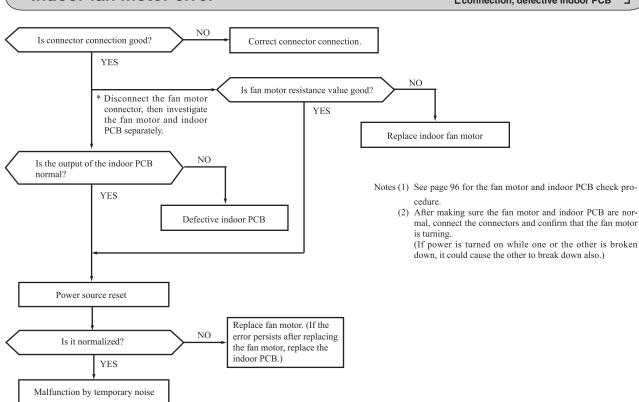
- **♦** Discharge pipe sensor temperature characteristics
- Sensor temperature characteristics (Room temp., indoor heat exchanger temp., outdoor heat exchanger temp., outdoor air temp.)





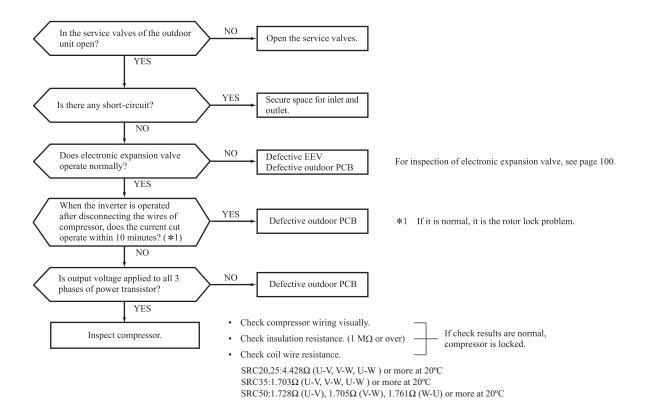
Indoor fan motor error

Defective fan motor, connector poor connection, defective indoor PCB



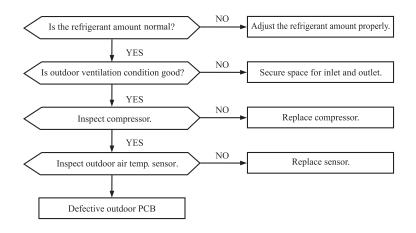
Current cut

Compressor lock, Compressor wiring short circuit, Compressor output is open phase, Outdoor PCB is faulty, Service valve is closed, EEV is faulty, Compressor faulty.



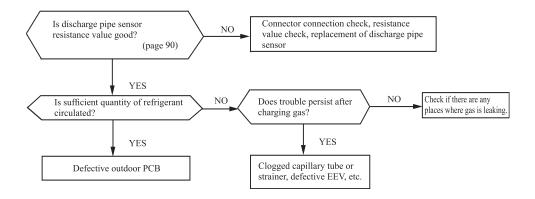
Current safe stop

Overload operation, compressor lock, overcharge



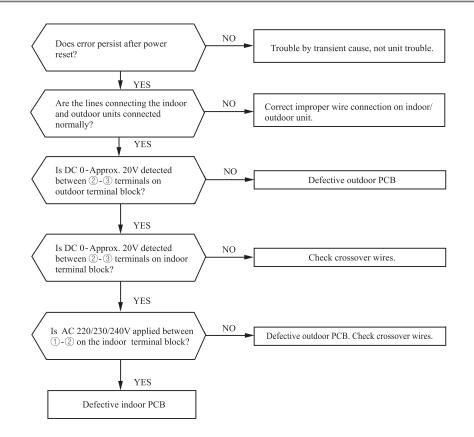
Over heat of compressor

Gas shortage, defective discharge pipe sensor



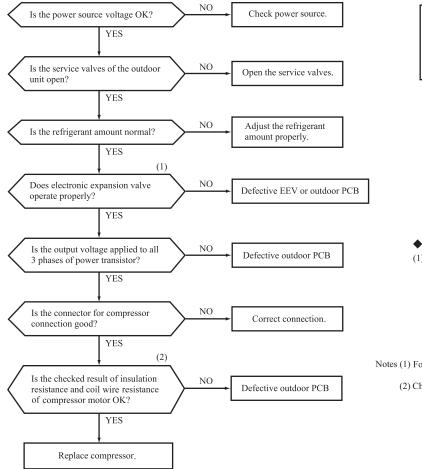
Error of signal transmission

Wiring error including power cable, defective indoor/ outdoor PCB



Trouble of outdoor unit

Insufficient refregerant amount, Faulty power transistor, Broken compressor wire Service valve close, Defective EEV, Defective outdoor PCB



Proper power source voltages are as follows.

(At the power source outlet) AC220V: AC198-242V AC230V: AC207-253V AC240V: AC216-264V

- ◆ Judgment of refrigerant quantity
- (1) Phenomenon of insufficient refrigerant
 - (a) Loss of capacity
 - (b) Poor defrost operation (Frost is not removed completely.)
- (c) Longer time of hot keep(5minutes or more)(Normal time: Approx. 1 1 minute and 30 seconds)

Notes (1) For inspection of electronic expansion valve, see page 100.

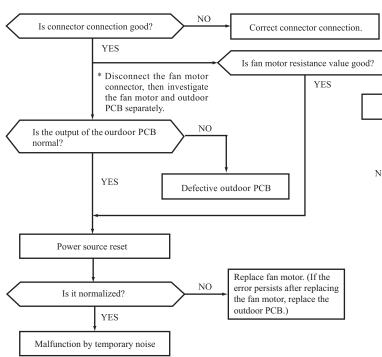
(2) Check coil wire resistance, see page 91.

NO

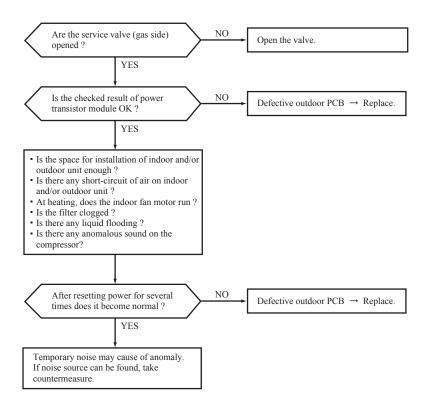
Replace outdoor fan motor.

Outdoor fan motor error

Defective fan motor, connector poor connection, defective outdoor PCB



- Notes (1) See page 100 for the fan motor and outdoor PCB check procedure.
 - (2) After making sure the fan motor and outdoor PCB are normal, connect the connectors and confirm that the fan motor is turning.
 - (If power is turned on while one or the other is broken down, it could cause the other to break down also.)



Humidity sensor

Connector (CNF)

1

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

(a) Indoor unit

Sensor	Operation	ration Phenomenon				
Selisoi	mode	Short-circuit	Disconnected wire			
Room temperature Cooling Release of continuous compressor operation command. C		Release of continuous compressor operation command.	Continuous compressor operation command is not released.			
sensor	sensor Heating Continuous compressor operation command is not released.		Release of continuous compressor operation command.			
Heat exchanger sensor	Cooling	Freezing cycle system protection trips and stops the compressor.	Continiuous compressor operation command is not released. (Anti-frosting)			
Heating		High pressure control mode (Compressor stop command)	Hot keep (Indoor fan stop)			
Liumiditu oonooy ⁽¹⁾	Cooling	Refer to the table below.	Refer to the table below.			
Humidity sensor ⁽¹⁾ Heating		Normal system operation is possible.				

Note (1) SRK35, 50 only.

Humidity sensor operation

	Failure mode	Control input circuit resding	Air-conditioning system operation
cted	① Disconnected wire		
Disconnected wire	② Disconnected wire	Humidity reading is 0%	Anti-condensation control is not done.
Dis	12 Disconnected wire		
Short- circuit	① and ② are shot- circuited	Humidity reading is 100%	Anti-condensation control keep doing.

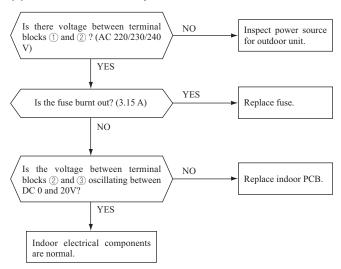


(b) Outdoor unit

Camaar	Operation	Phenomenon			
Sensor	mode	Short-circuit	Disconnected wire		
Heat exchanger	Cooling	Compressor stop.	Compressor stop.		
sensor	Heating	Defrost operation is not performed.	Defrost operation is performed for 10 minutes at approx. 35 minutes.		
Ourdoor air	Cooling	The compressor cannot pick up its speed owing to the current safe so that the designed capacity is not achieved.	Compressor stop.		
temperature sensor	Heating	The compressor cannot pick up its speed owing to the heating overload protection so that the designed capacity is not achieved.	Defrost operation is performed for 10 minutes at approx. 35 minutes.		
Discharge pipe sensor	All modes	Compressor overload protection is disabled. (Can be operated.)	Compressor stop.		

(9) Checking the indoor electrical equipment

(a) Indoor PCB check procedure



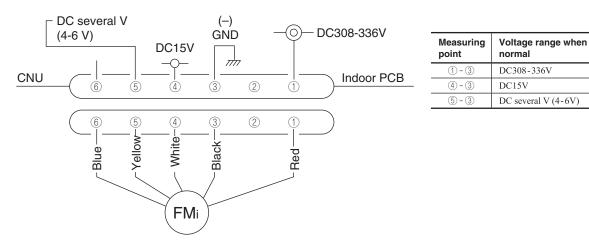
(b) Indoor unit fan motor check procedure

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.



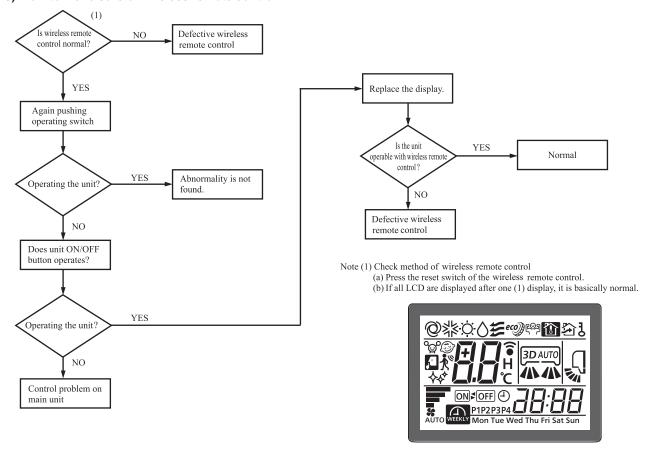
2) Fan motor resistance check

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

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

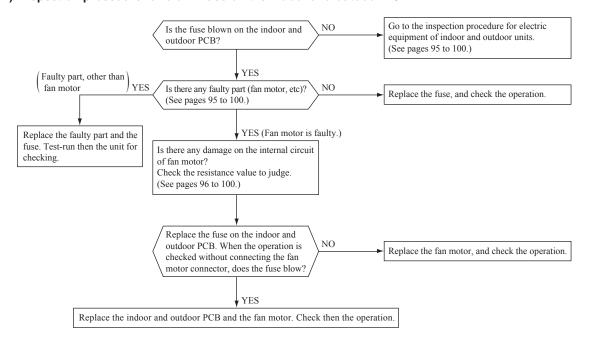
(2) If the measured value is below the value when the motor is normal, it means that the fan motor is faulty.

(10) How to make sure of wireless remote control



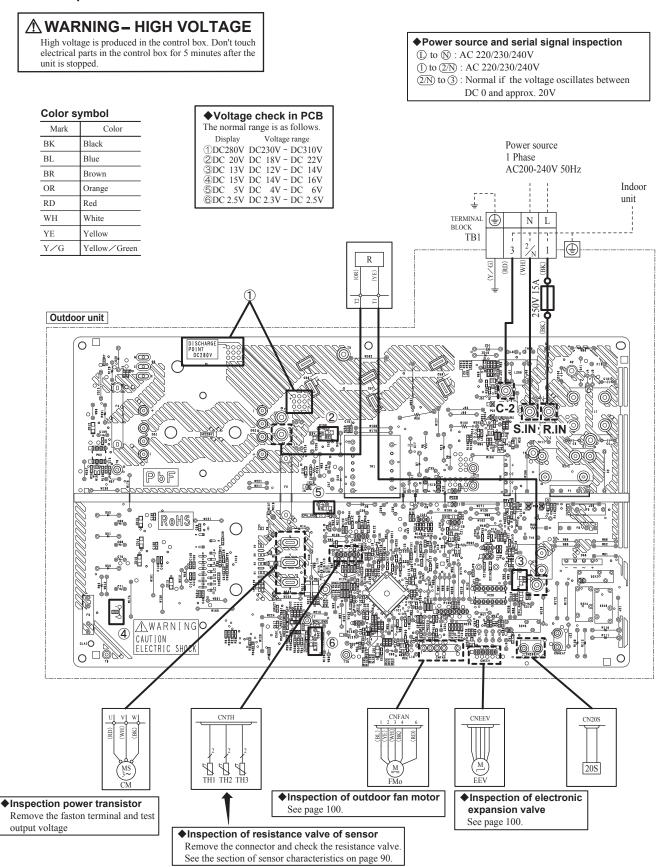
Simplified check method of wireless remote control It is normal if the signal transmission section of the wireless remote control emits a whitish light at each transmission on the monitor of digital camera.

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



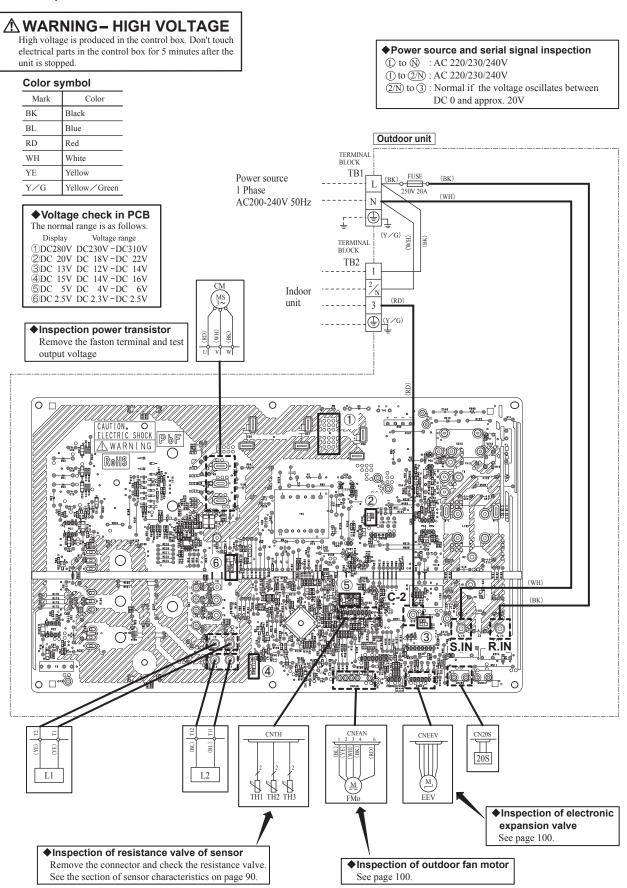
(12) Outdoor unit inspection points Models SRC20ZS-W, 25ZS-W, 35ZS-W

◆Check point of outdoor unit



Model SRC50ZS-W

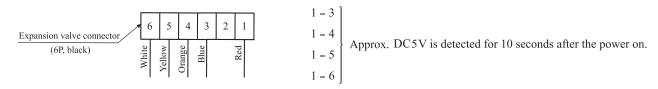
♦Check point of outdoor unit



(a) Inspection of electronic expansion valve

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

- (i) If it is heard the sound of operating electronic expansion valve, it is almost normal.
- (ii) If the operating sound is not heard, check the output voltage.



- (iii) If voltage is detected, the outdoor 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.

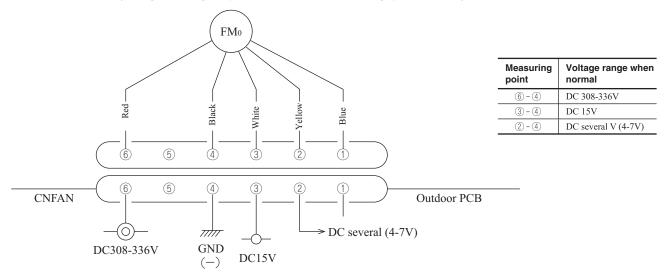
Measuring point	Resistance when normal
1-6	
1-5	$46\pm4\Omega$
1-4	(at 20°C)
1-3	

(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 - Black)	$20 \ \mathrm{M}\Omega$ or higher
③ - ④ (White - Black)	20 k Ω or higher

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

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

11. OPTION PARTS

(1) Wired remote control (a) Model RC-EX3A PJZ012A171

1. Safety precautions

Please read this manual carefully before starting installation work to install the unit properly. Every one of the followings is important information to be observed strictly.

	/// /// A K /	Failure to follow these instructions properly may result in serious	
		consequences such as death, severe injury, etc.	
	∴ CAUTION	Failure to follow these instructions properly may cause injury or property	
		damage.	

It could have serious consequences depending on the circumstances.

■The following pictograms are used in the text.



Keep this manual at a safe place where you can consult with whenever necessary. Show this manual to installers when moving or repairing the unit. When the ownership of the unit is transferred, this manual should be given to a new owner.

MARNING

- Consult your dealer or a professional contractor to install the unit.

 Improper installation made on your own may cause electric shocks, fire or dropping of the unit.
- Installation work should be performed properly according to this installation manual.

Improper installation work may result in electric shocks, fire or break-down.

- Be sure to use accessories and specified parts for installation work.
 Use of unspecified parts may result in drop, fire or electric shocks.
- Install the unit properly to a place with sufficient strength to hold the weight.

If the place is not strong enough, the unit may drop and cause injury.

Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circuit.

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

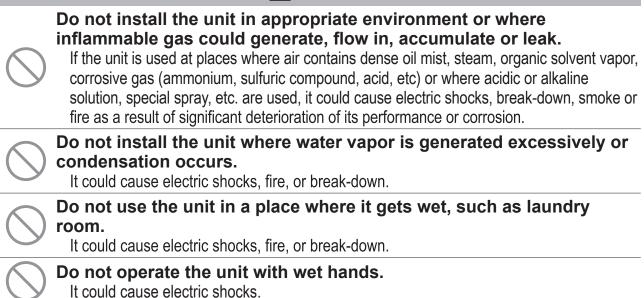
- Shut OFF the main power source before starting electrical work.
 Otherwise, it could result in electric shocks, break-down or malfunction.
- Do not modify the unit.

 It could cause electric shocks, fire, or break-down.
- Be sure to turn OFF the power circuit breaker before repairing/inspecting the unit.

 Penairing/inspecting the unit with the power circuit breaker turned ON could see

Repairing/inspecting the unit with the power circuit breaker turned ON could cause electric shocks or injury.

MARNING





It could cause electric shocks, fire, or break-down.

Use the specified cables for wiring, and connect them securely with care to protect electronic parts from external forces.

Improper connections or fixing could cause heat generation, fire, etc.

Seal the inlet hole for remote control cable with putty.

If dew, water, insect, etc. enters through the hole, it could cause electric shocks, fire or break-down.

If dew or water enters the unit, it may cause screen display anomalies.

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

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

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

Do not leave the remote control with its upper case removed.

If dew, water, insect, etc. enters through the hole, it could cause electric shocks, fire or break-down.

ACAUTION

Do not install the remote control at following places.

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

To connect to a personal computer via USB, use the dedicated software.

Do not connect other USB devices and the remote control at the same time.

It could cause malfunction or break-down of the remote control/personal computer.

2. Accessories & Prepare on site

Following parts are provided.

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

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

Item name	Q'ty	Remark
Switch box For 1 piece or 2 pieces (JIS C 8340 or equivalent)	1	
Thin wall steel pipe for electric appliance directly on a wall. (JIS C 8305 or equivalent)	As required These are not required when insta directly on a wall.	
Lock nut, bushing (JIS C 8330 or equivalent)	As required	1
Lacing (JIS C 8425 or equivalent)	As required	Necessary to run R/C cable on the wall.
Putty	Suitably	For sealing gaps
Molly anchor	As required	
R/C cable (0.3 mm ² x 2 pcs)	As required	See right table when longer than 100 m

When the cable length is longer than 100 m, the max size for wires used in the R/C case is 0.5 mm². Connect them to wires of larger size near the outside of R/C. When wires are connected, take measures to prevent water, etc. from entering inside.

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

3. Installation place

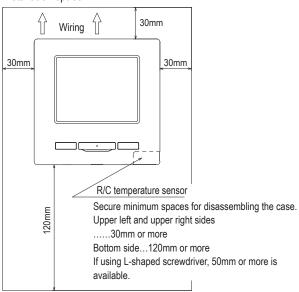
Secure the installation space shown in the figure.

For the installation method, "embedding wiring" or "exposing wiring" can be selected.

For the wiring direction, "Backward", "Upper center" or "Upper left" can be selected.

Determine the installation place in consideration of the installation method and wiring direction.

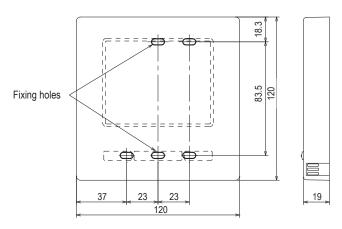
Installation space



4. Installation procedure

Perform installation and wiring work for the remote control according to the following procedure.

Dimensions (Viewed from front)



To disassemble the R/C case into the upper and lower pieces after assembling them once

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

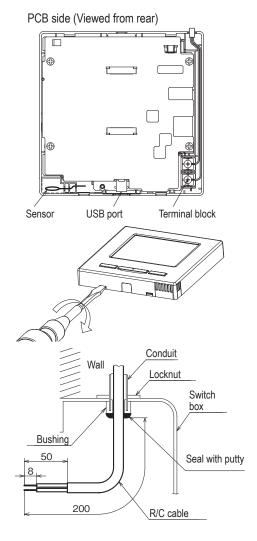
Take care to protect the removed upper case from moisture or dust.

In case of embedding wiring

(When the wiring is retrieved "Backward")

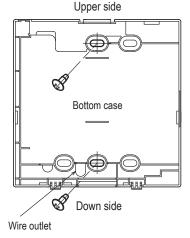
1) Embed the switch box and the R/C wires beforehand.

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

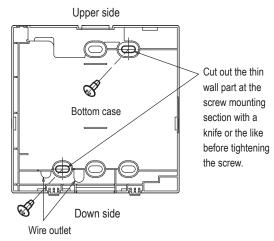


② When wires are passed through the bottom case, fix the bottom case at 2 places on the switch box.





Switch box for 2 pcs

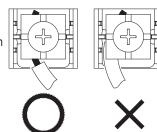


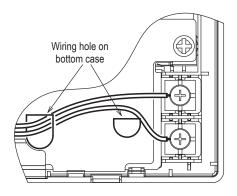
- ③ Connect wires from X and Y terminals of R/C to X and Y terminals of indoor unit. R/C wires (X, Y) have no polarity. Fix wires such that the wires will run around the terminal screws on the top case of R/C.
- 4 Install the upper case with care not to pinch wires of R/C.

Cautions for wire connection

Use wires of no larger than 0.5 mm² for wiring running through the remote control case. Take care not to pinch the sheath.

Tighten by hand $(0.7 \ N\cdot m \ or \ less)$ the wire connection. If the wire is connected using an electric driver, it may cause failure or deformation.





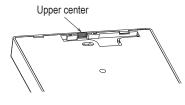
In case of exposing wiring

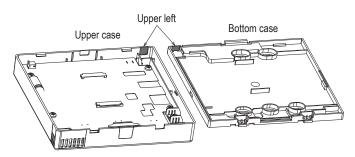
(When the wiring is taken out from the "upper center" or "upper left" of R/C)

1) Cut out the thin wall sections on the cases for the size of wire.

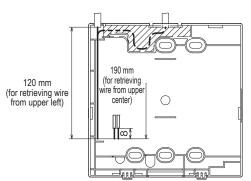
When taking the wiring out from the upper center, open a hole before separating the upper and bottom cases. This will reduce risk of damaging the PCB and facilitate subsequent work.

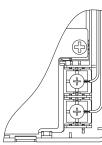
When taking the wiring out from the upper left, take care not to damage the PCB and not to leave any chips of cut thin wall inside.





- ② Fix the bottom R/C case on a flat surface with two wood screws.
- ③ In case of the upper center, pass the wiring behind the bottom case. (Hatched section)
- (4) Connect wires from X and Y terminals of R/C to X and Y terminals of indoor unit. R/C wires (X, Y) have no polarity. Fix wires such that the wires will run around the terminal screws on the top case of R/C.
- ⑤ Install the top case with care not to pinch wires of R/C.
- 6 Seal the area cut in 1 with putty.



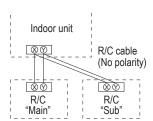


5. Main/Sub setting when more than one remote control are used

Up to two units of R/C can be used at the maximum for 1 indoor unit or 1 group.

One is main R/C and the other is sub R/C.

Operating range is different depending on the main or sub R/C.



R/C operations				Sub
Run/Stop, Change set temp., Change flap direction, Auto swing, Change fan speed operations				0
		ergy-saving operation	0	0
Silent mode	control		0	х
Useful	Individual flap control		0	×
functions	Anti draft se	0	×	
	Timer	0	0	
	Favorite se	0	0	
	Weekly tim	0	×	
	Home leave	0	×	
	External ve	0	0	
	Select the language		0	0
	Silent mode	0	×	
Energy-saving setting			0	×
Filter	Filter sign r	Filter sign reset		0
User setting	Initial settings		0	0
	Administrator settings	Permission/ Prohibition setting	0	×
		Outdoor unit silent mode timer	0	×
		Setting temp. range	0	×
		Temp increment setting	0	×
		Set temp. display	0	0
		R/C display setting	0	0
		Change administrator password	0	0
		F1/F2 function setting	0	0

Installation Service Service Settings Installation Settings Installation Settings Installation Settings Installation Settings Installation Settings Installation Settings Setting Service & Maintenance Main Sub Setting Setting Service & Maintenance Setting Setting Service & Maintenance Setting Setting Service & Maintenance Setting Setting Setting Service & Maintenance Setting Service & Maintenance Setting Service & Maintenance Setting Service & Maintenance Setting Service & Setting				o: operable ×: n	ot ope	erable
Setting Company information O O	R/C operation	ns .			Main	Sub
Test run Static pressure adjustment Change auto-address Address setting of main IU IU back-up function Motion sensor setting R/C function settings R/C function settings R/C sensor setting R/C sensor adjustment Operation mode C/oF Fan speed External input Upper/lower flap control Left/right flap control Ventilation setting X Auto-restart Auto temp. setting Service & Maintenance Next service date Operation data Error display IU settings Service & Saving IU settings Service & Saving IU settings Service & Saving IU settings Service & Saving IU settings Service & Saving IU settings Service & Saving IU settings Service & Saving IU settings Service & Saving IU settings Reset periodical check Service & Saving IU settings Service & Saving IU settings Reset periodical check Service Section of default setting Resetore of default setting Restore of default setting Restore of default setting Restore of default setting Restore of default setting Touch panel calibration Operation of the service of the			Installation date		0	×
Static pressure adjustment Change auto-address Address setting of main IU IU back-up function Motion sensor setting R/C function settings Return air temp. R/C sensor R/C sensor adjustment Operation mode C/ °F Fan speed External input Upper/lower flap control Left/right flap control Ventilation setting Auto temp. setting Auto fan speed Service & Maintenance IU settings Service & Maintenance Return air temp. Auto temp. x Ventilation setting Auto fan speed External input Ventilation setting X Auto-restart Auto temp. setting Auto fan speed External input Service & Maintenance Next service date Operation data Error display Display/erase anomaly data Reset periodical check Saving IU settings Special Erase IU address Special Erase IU address Service & Saving IU settings	setting	settings	Company information		0	0
Change auto-address					0	×
Address setting of main IU			Static pr	essure adjustment	0	×
IU back-up function			Change auto-address		0	×
Motion sensor setting					0	×
Main/Sub of R/C			IU back-up function		0	×
Return air temp.					0	×
R/C sensor adjustment			Main/Sub of R/C		0	0
R/C sensor adjustment			Return air temp.		0	×
Operation mode			R/C sensor		0	×
Fan speed			R/C sensor adjustment		0	×
Fan speed			Operation mode		0	×
External input Upper/lower flap control Left/right flap control Ventilation setting Auto-restart Auto temp. setting Auto fan speed IU settings Service & Maintenance III address Next service date Operation data Error display Error history Display/erase anomaly data Reset periodical check Saving IU settings Saving IU settings Service & Next service date Operation data Error display Error history Display/erase anomaly data Reset periodical check Saving IU settings Service & Operation data Reset periodical check Saving IU settings CPU reset Restore of default setting Touch panel calibration O ×			°C / °F		0	×
Upper/lower flap control			Fan speed		0	×
Left/right flap control O X			External input		0	×
Ventilation setting			Upper/lower flap control		0	×
Auto-restart			Left/right flap control		0	х
Auto temp. setting			Ventilation setting		0	×
Auto fan speed			Auto-restart		0	×
U settings			Auto temp. setting		0	×
U address			Auto fan speed		0	×
Next service date				0	×	
Operation data Error display Error history Display/erase anomaly data Reset periodical check Saving IU settings Special Erase IU address Settings CPU reset Restore of default setting Touch panel calibration			IU address		0	0
Error display Error history O O Display/erase anomaly data Reset periodical check O Saving IU settings Erase IU address O × Settings Erase IU address O × Settings Erase IU address O × Settings O V CPU reset O Restore of default setting O × Touch panel calibration O O		Maintenance	Next service date		0	×
display Display/erase anomaly data Reset periodical check O			Operation data		0	×
Saving IU settings X				Error history	0	0
Saving IU settings				Display/erase anomaly data	0	×
Special Erase IU address				Reset periodical check	0	0
Settings CPU reset ORestore of default setting X Touch panel calibration OR					0	×
Restore of default setting × Touch panel calibration o			Special settings	Erase IU address	0	×
Touch panel calibration O				CPU reset	0	0
				Restore of default setting	0	×
Indoor unit capacity display o ×				Touch panel calibration	0	0
			Indoor unit capacity display		0	×

Advice: Connection to personal computer

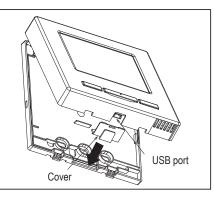
It can be set from a personal computer via the USB port (mini-B).

Connect after removing the cover for USB port of upper case.

Replace the cover after use.

Special software is necessary for the connection.

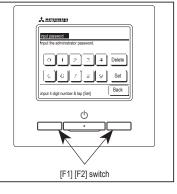
For details, view the web site.



Advice: Initializing of password

Administrator password (for daily setting items) and service password (for installation, test run and maintenance) are used.

- The administrator password at factory default is "0000". This setting can be changed (Refer to User's Manual).
 - If the administrator password is forgotten, it can be initialized by holding down the [F1] and [F2] switches together for five seconds on the administrator password input screen.
- Service password is "9999", which cannot be changed.
 When the administrator password is input, the service password is also accepted.



Advice

When connecting two or more FDT/FDTC to one R/C, unify the panel type either to a panel with anti draft function or a standard panel.

(b) Model RC-E5 PJA012D730 🛦

Read together with indoor unit's installation manual.

∆WARNING

Fasten the wiring to the terminal securely and hold the cable securely so as not to apply unexpected stress on the terminal.

Loose connection or hold will cause abnormal heat generation or fire.



Make sure the power source is turned off when electric wiring work.
 Otherwise, electric shock, malfunction and improper running may occur.



ACAUTION

- Do not install the remote control at the following places in order to avoid malfunction.
 - (1) Places exposed to direct sunlight (4) Hot surfa
 - (4) Hot surface or cold surface enough to generate condensation
 - (2) Places near heat devices (5) Places exposed to oil mist or steam directly
 - (3) High humidity places (6) Uneven surface



Do not leave the remote control without the upper case.

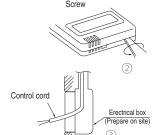
In case the upper cace needs to be detached, protect the remote control with a packaging box or bag in order to keep it away from water and dust.



Accessories	Remote control, wood screw (ø3.5×16) 2 pieces			
Prepare on site	Remote control cord (2 cores) the insulation thickness in 1mm or more.			
	[In case of embedding cord] Erectrical box, M4 screw (2 pieces)			
[In case of exposing cord] Cord clamp (if needed)				

Installation procedure

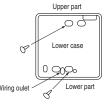
- Open the cover of remote control, and remove the screw under the buttons without fail.
- Remove the upper case of remote control. Insert a flat-blade screwdriver into the dented part of the upper part of the remote control, and wrench slightly.

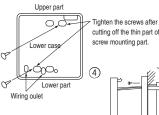


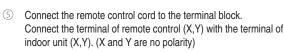
[In case of embedding cord]

3 Embed the erectrical box and remote control cord beforehand.

Prepare two M4 screws (recommended length is 12-16mm) on site, and install the lower case to erectrical box. Choose either of the following two positions in fixing it with screws.







- erd to the terminal block.

 e control (X,Y) with the terminal of

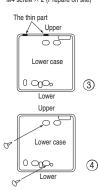
 no polarity)

 The thin part

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

[In case of exposing cord]

- You can pull out the remote control cord from left upper part or center upper part. Cut off the upper thin part of remote control lower case with a nipper or knife, and grind burrs with a file etc.
- ④ Install the lower case to the flat wall with attached two wooden screws.

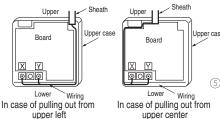


4

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 0.3mm² (recommended) to 0.5mm².

The sheath should be peeled off inside the remote control case.

The peeling-off length of each wire is as below.

Pulling out from upper left	Pulling out from upper center
X wiring: 215mm	X wiring : 170mm
Y wiring: 195mm	Y wiring: 190mm



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

Installation and wiring of remote control

- Wiring of remote control should use 0.3mm² × 2 core wires or cables. (on-site configuration)
- 2 Maximum prolongation of remote control wiring is 600 m.

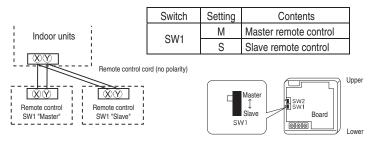
If the prolongation is over 100m, change to the size below.

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

100 - 200m	$\cdots 0.5$ mm ² \times 2 cores
Under 300m	0.75mm ² × 2 cores
Under 400m	1.25mm ² × 2 cores
Under 600m	······2.0mm ² × 2 cores

Master/ slave setting when more than one remote controls are used

A maximum of two remote controls can be connected to one indoor unit (or one group of indoor units.)



Set SW1 to "Slave" for the slave remote control. It was factory set to "Master" for shipment.

Note: The setting "Remote control sensor enabled" is only selectable with the master remote control in the position where you want to check room temperature.

The air-conditioner operation follows the last operation of the remote control regardless of the master/ slave setting of it.

The indication when power source is supplied

When power source is turned on, the following is displayed on the remote control until the communication between the remote control and indoor unit settled.

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

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



When remote control cannot communicate with the indoor unit for half an hour, the below indication will appear.

Check wiring of the indoor unit and the outdoor unit etc.



The range of temperature setting

When shipped, the range of set temperature differs depending on the operation mode as below.

Heating: 16-30°C (55-86°F)

Except heating (cooling, fan, dry, automatic): 18-30°C (62-86°F)

Upper limit and lower limit of set temperature can be changed with remote control.

Upper limit setting: valid during heating operation. Possible to set in the range of 20 to 30°C (68 to 86°F).

Lower limit setting: valid except heating (automatic, cooling, fan, dry) Possible to set in the range of 18 to 26°C (62 to 79°F).

When you set upper and lower limit by this function, control as below.

 When ②TEMP RANGE SET, remote control function of function setting mode is "INDN CHANGE" (factory setting), [If upper limit value is set]

During heating, you cannot set the value exceeding the upper limit.

[If lower limit value is set]

During operation mode except heating, you cannot set the value below the lower limit.

2. When @ TEMP RANGE SET, remote control function of function setting mode is "NO INDN CHANGE" [If upper limit value is set]

During heating, even if the value exceeding the upper limit is set, upper limit value will be sent to the indoor unit. But, the indication is the same as the temperature set.

[If lower limit value is set]

During except heating, even if the value lower than the lower limit is set, lower limit value will be sent to the indoor unit. But, the indication is the same as the temperature set.

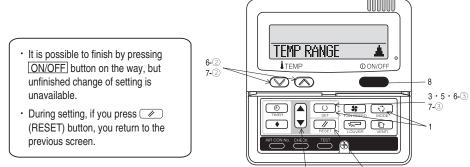
How to set upper and lower limit value

1. Stop the air-conditioner, and press (SET) and (MODE) button at the same time for over three seconds.

The indication changes to "FUNCTION SET ▼".

- 2. Press ▼ button once, and change to the "TEMP RANGE ▲ " indication.
- 3. Press (SET) button, and enter the temperature range setting mode.
- 4. Select "UPPER LIMIT ▼" or "LOWER LIMIT ▲" by using ▲ | ▼ button.
- 5. Press O (SET) button to fix.
- 6. When "UPPER LIMIT ▼" is selected (valid during heating)
 - ① Indication: " $\bigcirc \lor \land$ SET UP" \rightarrow "UPPER 30°C \lor "
 - ② Select the upper limit value with temperature setting button \(\subseteq \in\). Indication example: "UPPER 26°C \(\select \)" (blinking)
 - ③ Press (SET) button to fix. Indication example: "UPPER 26°C" (Displayed for two seconds) After the fixed upper limit value displayed for two seconds, the indication will return to "UPPER LIMIT ▼".
- 7. When "LOWER LIMIT **\(\Lambda \)**" is selected (valid during cooling, dry, fan, automatic)
 - ① Indication: " $^{\bullet}$ \vee \wedge SET UP" \rightarrow "LOWER 18°C \wedge "
 - ② Select the lower limit value with temperature setting button ☑ △. Indication example: "LOWER 24°C ∨ ∧" (blinking)
 - ③ Press ◯ (SET) button to fix. Indication for example: "LOWER 24°C" (Displayed for two seconds)

 After the fixed lower limit value displayed for two seconds, the indication will return to "LOWER LIMIT ▼".
- 8. Press ON/OFF button to finish.



2 . 4

Previous button

The functional setting

The initial function setting for typical using is performed automatically by the indoor unit connected, when remote control and indoor unit are connected.

As long as they are used in a typical manner, there will be no need to change the initial settings.

If you would like to change the initial setting marked " O ", set your desired setting as for the selected item. The procedure of functional setting is shown as the following diagram.

Flow	οf	function	settinal
I IOW	v	IUIICUOII	Setting

: Stop air-conditioner and press " " (SET) and
" " " (MODE) buttons at the same time for over three seconds.
: Press " " (RESET) button.
: Press " " (RESET) button.
: Press No.IOFF button.
: Press ON.IOFF button. Start Record and keep the setting Finalize Reset

Select

It is possible to finish above setting on the way, and unfinished change of setting is unavailable.

": Initial settings

Consult the technical data etc. for each control details

Stop air-conditioner and press (SET) + (MODE) buttons at the same time for over three seconds

FUNCTION SET ▼ To next page ☐ FINCTION ▼ (Remote control function) Function setting 01 | 6M A ESP SE Validate setting of ESP:External Static Pressure INVALTE Invalidate setting of ESP 02 | AUTO RUN SE AUTO RUN ON AUTO RUN OFF Automatical operation is impossible 03 MIZITEMPSW 중점점 ANTD Temperature setting button is not working 04 🖾 MODE SW 은데 WALID Mode button is not working 05 @ ONZOFF SW 50 YALID 50 INVALID On/Off button is not working 06 SEEFAN SPEED SW 응용 YALID 응용 INWALIC Fan speed button is not working 7 🖾 LOUVER SW ㅎ☞ WALID ㅎ☞ INVALID ouver button is not working 08 OTIMERSW 우리 MALID Timer button is not working * 09 I ⊜ SENSOR SET ESENSOR OFF Remote sensor is not working. EISENSOR +3.0 Remote sensor is working.

Remote sensor is working, and to be set for producing +3.0°C increase in temperature.

Remote sensor is working, and to be set for producing +2.0°C increase in temperature. Remote sensor is working, and to be set for producing ±1.0°C increase in temperature. Remote sensor is working, and to be set for producing ±1.0°C increase in temperature. Remote sensor is working, and to be set for producing ±0.0°C increase in temperature. Remote sensor is working, and to be set for producing ±0.0°C increase in temperature. Remote sensor is working, and to be set for producing ±0.0°C increase in temperature. ESENSOR +1.08 ESENSOR -2.00 10 AUTO RESTART 11 | VENTLINK SET NO VENT In case of Single split series, by connecting ventilation device to CnT of the indoor printed circuit board (in case of VRF series, by connecting it to CnD of the indoor printed circuit board), the operation of ventilation device is linked with the VENT LINK operation of indoor unit. he case of Single split series, by connecting ventilation device to CnT of the indoor printed circuit board (in case of VRF series, by connecting it to CnD of the indoor printed circuit board), you can operate /stop the ventilation device independently by
(VENT) button. NO VENT LINK 12 TEMP RANGE SET If you change the range of set temperature, the indication of set temperature INON CHANGE will vary following the control.

If you change the range of set temperature, the indication of set temperature will not vary following the control, and keep the set temperature. NO INDN CHANGI 13 | I/U FAN Air flow of fan becomes of and - and - and or the four speed of and - and - and - and - and - and -HI-MID-LO Air flow of fan becomes of Air flow of fan becomes of * - * - . Air flow of fan is fixed at one speed. If you change the remote control function "14 ⋜─PUSITION", you must change the indoor function "04 उ─PUSITION" accordingly. 14 ≒7- POSITION You can select the louver stop position in the four. The louver can stop at any position. 4PUSTTION STOP 15 MODEL TYPE HEAT PUMP COOLING ONLY 16 EXTERNAL CONTROL SET If you input signal into CnT of the indoor printed circuit board from external, the indoor unit will be operated independently according to the input from external. If you input into CnT of the indoor printed circuit board from external, all units which connect to the same remote control are operated according to the input from external. INDIVIDUAL FOR ALL UNITS 17 ROUN TEMP INOLICATION SET INDICATION OFF INDICATION ON In normal working indication, indoor unit temperature is indicated instead of air flow. (Only the master remote control can be indicated.) 18 ASINDICATION Heating preparation indication should not be indicated 19 t/ FSFT Temperature indication is by degree C Temperature indication is by degree F To next page

Note (1)*The mark cannot use SRK series

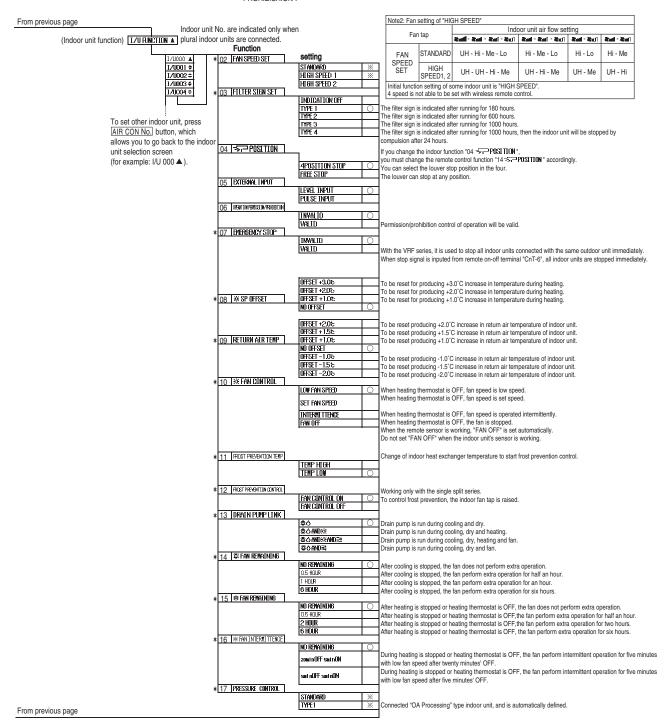
ON/OFF button (finished)

Note 1: The initial setting marked "%" 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	emote control notion02 emote control notion02 emote control notion06 emote control notion06 emote control notion07 emote control notion07 emote control notion07 emote control notion01 I./J FAN HI-RID-U Indoor HI-RID IN		Indoor unit with two or three step of air flow setting
function06			Indoor unit with only one of air flow setting
Remote control	EZZI LOUYER SW	⊕⊡ VALID	Indoor unit with automatically swing louver
function07		& EZZI INVALID	Indoor unit without automatically swing louver
		HI -MED-LO	Indoor unit with three step of air flow setting
function13		нт⊣ш	Indoor unit with two step of air flow setting
		HI-MED	
		1 FAIN SPEED	Indoor unit with only one of air flow setting
Remote control	MODEL 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".



How to set function

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



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

Press \blacktriangle or \blacktriangledown button. Selecct $^*\blacksquare$ FUNCTION \blacktriangledown^* (remote control function) or * I/U FUNCTION \blacktriangle^* (indoor unit function).

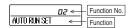


5. Press (SET) button.

① "DATA LOADING" (Indication with blinking) Display is changed to "01 6 MA ESP SET".

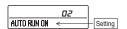
② Press ▲ or ▼ button.

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



③ Press () (SET) button

The current setting of selected function is indicated. (for example) "AUTO RUN ON" ← If "02 AUTO RUN SET" is selected



④ Press ▲ or ▼ button. Select the setting.



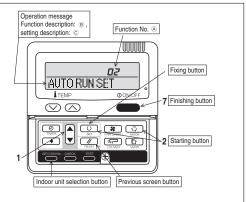
⑤ Press ◯ (SET)

"SET COMPLETE" will be indicated, and the setting will be completed.

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



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



[On the occasion of indoor unit function selection]

① "DATA LOADING" (Blinking for 2 to 23 seconds to read the data) Indication is changed to "02 FAN SPEED SET". Go to ②.

[Note]

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



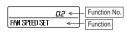
(2) Press ▲ or ▼ button.

Select the number of the indoor unit you are to set.

If you select "ALL UNIT ▼", you can set the same setting with

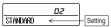
- (3) Press (SET) button.
- ② Press ▲ or ▼ button.

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



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

selected



- ④ Press ▲ or ▼ button. Select the setting.
- Press (SET) button.
 "SET COMPLETE" will be indicated, and the setting will be completed.

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



* When plural indoor units are connected to a remote control, press the AIR CON No. button, which allows you to go back to the indoor unit selection screen. (example "I/U 000 \(\textstyle{\textstyle{\textstyle{1}}} \))

- It is possible to finish by pressing ON/OFF button on the way, but unfinished change of setting is
- During setting, if you press (RESET) button, you return to the previous screen.
- Setting is memorized in the control and it is saved independently of power failure.

[How to check the current setting]

When you select from "No. and funcion" and press set button by the previous operation, the "Setting" displayed first is the current setting.

(But, if you select "ALL UNIT ▼ ", the setting of the lowest number indoor unit is displayed.)

(c) Operation and setting from wired remote control

Blank : Not compatible

— : No function on remote control

○ : Correspondence

△ : Corresponding part

Setting & display item		Description	RC-EX3A	RC-E5
Remote control network Control plural indoor units by a single remote control		A remote control can control plural indoor units up to 16 (in one group of remote control network). An address is set to each indoor unit.	0	0
2 Main/sub setting of remote controls		A pair of remote controls (including optional wireless remote control) can be connected within the remote control network. Set one to "Main" and the other to "Sub".	0	0
.TOP scrren, Switch manipu 1 Menu	ılation	"Control", "State", or "Details" can be selected. (3-8)	0	
2 Operation mode		"Cooling", "Heating", "Fan", "Dry" or "Auto" can be set.	0	0
3 Set temp.		"Set temperature" can be set by 0.5°C interval.	Ŏ	ŏ
4 Air flow direction		"Air flow direction" [Individual flap control] can be set. Select Enable or Disable for the "3D AUTO".	0	Δ
5 Fan speed		"Fan speed" can be set.	0	0
6 Timer setting 7 ON/OFF		"Timer operation" can be set. "On/Off operation of the system" can be done.	0	0
8 F1 SW		The system operates and is controlled according to the function specified to the F1 switch.	0	-
9 F2 SW		The system operates and is controlled according to the function specified to the F2 switch.	Ŏ	-
.Useful functions				
1 Individual flap control 2 Anti draft setting		The moving range (the positions of upper limit and lower limit) of the flap for individual flap can be set.		
	anti-draft function is assembled.	When the panel with the anti draft function is assembled, select to Enable or Disable the anti draft setting for each operation mode and for each blow outlet.		
3 Timer settings	Set On timer by hour	The period of time to start operation after stopping can be set. The period of set time can be set within range of 1hour-12houres (1hr interval). The operation mode, set temp, and fan speed at starting operation can be set.	Δ	_
	Set Off timer by hour	The period of time to stop operation after starting can be set.	<u> </u>	-
	-	The period of set time can be set within range of 1hour-12houres (1hr interval).	0	0
	Set On timer by clock	The clock time to start operation can be set. The set clock time can be set by 5 minutes interval. [Once (one time only)] or [Everyday] operation can be switched. The operation mode, set temp, and fan speed at starting operation can be	Δ	0
	Set Off timer by clock	The clock time to stop operation can be set. The set clock time can be set by 5 minutes interval. [Once (one time only)] or [Everyday] operation can be switched.	0	0
	Confirmation of timer settings	Status of timer settings can be seen.	0	_
4 Favorite setting [Administrator password	1]	Set the operation mode, setting temperature, air flow capacity and air flow direction for the choice setting operations. Set them for the Favorite set 1 and the Favorite set 2 respectively.	0	_
5 Weekly timer		On timer and Off timer on weekly basis can be set. - 8-operation patterns per day can be set at a maximum. - The setting clock time can be set by 5 minutes interval. - Holiday setting is available.		0
6 Home leave mode [Administrator password	i]	 • The operation mode, set temp. and fan speed at starting operation can be Wisten leaving home for a long period like a vaction leave, the unit can be operated to maintain the room temperature not to be hotter in summer or not to be colder in winter. • The judgment to switch the operation mode (Cooling ⇔ Heating) is done by the both factors of the set temp. and outdoor air temp. • The set temp. and fan speed can be set. 		_
7 External Ventilation When the ventilator is co	ombined.	On/Off operation of the external ventilator can be done. It is necessary to set from [Menu] ⇒ [Service setting] ⇒ [R/C function settings] ⇒ [Ventilation setting]. • If the "Independent" is selected for the ventilation setting, the ventilator can be operated or stopped.	0	0
8 Select the language		Select the language to display on the remote control. • Select from English, German, French, Spanish, Italian, Dutch, Turkish, Portuguese, Russian, Polish, Japanese and Chinese.	0	-
9 Look, look		Indoor temperature, outdoor temperature and power consumption are indicated.	Δ	-
10 Power consumption indic	cation	The power consumption of today, this week and this year is indicated by a chart. It is possible to compare with yesterday, last week and last year. • This item may not indicate depending on indoor and outdoor units which are combined.	0	_
.Energy-saving setting		Administrator password		
1 Sleep timer		To prevent the timer from keeping ON, set hours to stop operation automatically with this timer. - The selectable range of setting time is from 30 to 240 minutes. (10 minutes interval) - When setting is "Enable", this timer will activate whenever the ON timer is set.	0	_
2 Peak-cut timer		Power consumption can be reduced by restructing the maximum capacity. Set the [Start time], the [End time] and the capacity limit % (Peak-cut %). 4-operation patterns per day can be set at maximum. The setting time can be changed by 5-minutes interval. The selectable range of capacity limit % (Peak-cut %) is from 0% to 40-80% (20% interval). Holiday setting is available.		_
3 Automatic temp. set back		After the elapse of the set time period, the current set temp. will be set back to the [Set back time.] • The setting can be done in cooling and heating mode respectively. • Selectable range of the set time is from 20 min. to 120 min. (10 min. interval). • Set the [Set back temp.] by 1°C interval.	0	-
assembled.	Motion sensor control) e infrared sensor (motion sensor) is	When the infrared sensor (motion sensor) is used, it is necessary to set Enable or Disable for the "Power control" and the "Auto-off".	0	-
Filter	True :	TI CL : 1		
1 Filter sign reset	Filter sign reset Setting next cleaning date	The filter sign can be reset. The next cleaning date can be set.		
.User setting	potting next eleaning date	The next creating date can be set.		
	Clock setting	The current date and time can be set or revised. • If a power failure continues no longer than 80 hours, the clock continues to tick by the built-in power source.	0	_
1 Internal settings				
1 Internal settings	Date and time display Summer time	[Display] or [Hide] the date and/or time can be set, and [12H] or [24H] display can be set. When select [Enable], the +1hour adjustment of current time can be set. When select [Disable], the [Summer time]	0	_
1 Internal settings	Date and time display Summer time	[Display] or [Hide] the date and/or time can be set, and [12H] or [24H] display can be set. When select [Enable], the +1hour adjustment of current time can be set. When select [Disable], the [Summer time] adjustment can be reset.	0	
1 Internal settings	Date and time display	[Display] or [Hide] the date and/or time can be set, and [12H] or [24H] display can be set. When select [Enable], the +1hour adjustment of current time can be set. When select [Disable], the [Summer time]		_

Setting & di		Description	RC-EX3A	RC-E
Administrator settings [Administrator password]	Permission/Prohibition setting	Pormission/Prohibition setting of operation can be set. [On/Off] [Change set temp] [Change operation mode] [Change flap direction] [Change fan speed] [High power operation] [Energy-saving operation] [Timer] Request for administrator can be set. [Individual flap control] [Weekly timer] [Select the language] [Anti draft setting]	0	_
	Outdoor unit silent mode timer	The period of time to operate the outdoor unit by prioritizing the quiteness can be set. The [Start time] and the [End time] for operating outdoor unit in silent mode can be set. The period of the operation time can be set once aday by 5 minutes inteval.	0	0
	Setting temp. range	The upper/lower limit of temp. setting range can be set. The limitation of indoor temp. setting range can be set for each operation mode in cooling and heating.	0	0
	Temp increment setting	The temp. increment setting can be changed by 0.5°C or 1.0°C.	0	0
	Set temp. display	Ways of displaying setting temperatures can be selected.	0	0
	R/C display setting	Register [Room name] [Name of I/U] Display [Indoor temp. display] or not. Display [Error code display] or not. Display [Heating stand-by display] [Defrost operation display] [Auto cooling/heating display] [Display temp of R/C, Room, Outdoor] or not	0	_
	Change administrator password	The administrator password can be changed. (Default setting is "0000") The administrator password can be reset.	0	-
	F1/F2 function setting	Functions can be set for F1 and F2. Selectable functions: [High power operation], [Energy-saving operation], [Silent mode cont.], [Home leave mode], [Favorite set 1], [Favorite set 2] and [Filter sign reset].	0	_
Service setting		[a with the set 2] and [a men sign reset].		
Installer settings [Service password]	Installation date	The [Installation date] can be registed. • When registering the [Instaration date], the [Next service date] is displayed automatically. (For changing the [Next service date], please refer the item of [Service & Maintenance])	0	_
	Company information	The [Company information] can be registed and can be displayed on the R/C. • The [Company] can be registered within 26 characters. • The [Phone No.] can be registed within 13 digits.	0	-
	Test run	On/Off operation of the test run can be done.		
	Cooling test run Drain pump test run	The [Cooling test run] can be done at 5°C of set temp. for 30 minutes. Only drain pump can be operated.	0	С
	Static pressure adjustment	In case of combination with only the ducted indoor unit which has a function of static pressure adjustment, the static pressure is adjustable.		_
	Change auto-address	 It can be set for each indoor unit individually. The set address of each indoor unit decided by auto-address setting method can be changed to any other address. 		_
	Address setting of main IU	Main indoor unit address can be set. Only the Main indoor unit can change operation mode and the Sub indoor units dominated by the Main indoor shall follow. The Main indoor unit can domain 10 indoor units at a maximum.		_
	IU back-up function	• The Main motor unit can domain to motor units at a maximum. When a pair of indoor units (2 groups) is connected to one unit of remote control, it can be set Enable or Disable for the [IU rotation], [IU capacity back-up] and [IU fault back-up]	0	-
	Infrared sensor setting (Motion sensor setting) When the panel with the infrared	Set Enable or Disable for the infrared sensor detectors of indoor units connected to the remote control. If Disable is selected, it cannot be control the infrared sensor control for the energy-saving setting.	0	-
	sensor (motion sensor) is assembled. Grill lifting operation	Set enable for automatic lifting panel operation. When automatic lifting panel is assembled.		
2 R/C function setting	Main/Sub R/C	The R/C setting of [Main/Sub] can be changed.	0	-
[Service password]	Return air temp.	When two or more indoor units are connected to one unit of remote control, suction sensors, which are used for the judgement by thermostat, can be selected. • It can be selected from [Individual], [Master IU] and [Average temp].	0	-
	R/C sensor	It can be set the mode to switch to the remote control sensor. It can be selected from cooling and heating.	0	
	R/C sensor adjustment Operation mode	The offset value of [R/C sensor] sensing temp. can be set respectively in heating and cooling. Enable or Disable can be set for each operation mode.	0	
	°C / °F	Set the unit for setting temperatures. • °C or °F can be selected.	0	
	Fan speed	Fan speeds can be selected.	0	-
	External input Upper/lower flap control	When two or more indoor units are connected to one unit of remote control, the range to apply CnT inputs can be set. [Stop at fixed position] or [Stop at any position] can be selected for the upper and lower louvers.	0	
	Left/right flap control	[Fixed position stop] or [Stop at any position] can be selected for the right and left louvers.	0	-
	Ventilation setting	Combination control for ventilator can be set.	0	
	Auto-restart Auto temp. setting	The operation control method after recovery of power failure happened during operation can be set. [Enable] or [Disable] of [Auto temp. setting] can be selected.	8	-
	Auto fan speed	[Enable] or [Disable] of [Auto fan speed] can be selected.	0	-
IU settings	Fan speed setting Filter sign	The fan speed for indoor units can be set. The setting of filter sign display timer can be done from following patterns.		-
[Service password]	External input 1	The connect of control by external input 1 can be changed.	Δ	
	External input 1 signal External input 2	The type of external input 1 signal can be changed. The connect of control by external input 2 can be changed.	0	-
	External input 2 Signal	The type of external input 2 signal can be changed.		
	Heating thermo-OFF temp. adjustment	The judgement temp. of heating themo-off can be adjusted within the range from 0 to +3°C (1°C interval).		
		The sensing temp. of return air temp. sensor built in the indoor unit can be adjusted within the range of ±2°C. Fan control, when the cooling thermostat is turned OFF, can be changed.		-
		Fan control, when the heating thermostat is turned OFF, can be changed.	Δ	
	Anti-frost temp.	Judgment temperature for the anti-frost control during cooling can be changed.		
	Anti-frost control Drain pump operation Keep fan operating after cooling	When the anti-frost control of indoor unit in cooling is activated, the fan speed can be changed. In any operation mode in addition to cooling and dry mode, the setting of drain pump operation can be done. The time period residual fan operation after stopping or thermo-off in cooling mode can be set.		
	is stopped Keep fan operating after heating is stopped	The time period residual fan operation after stopping or thermo-off in heating mode can be set.		
	Intermittent fan operation in heating Fan circulator operation	The fan operation rule following the residual fan operation after stopping or themo-off in heating mode can be set. In case that the fan is operated as the circulator, the fan control rule can be set.		
	Auto operation mode Thermo. rule setting	When only the OA processing units are operated, control pressure value can be changed. The [Auto rule selection] for switching the operation mode automatically can be selected from 3 patterns. When selecting [Outdoor air temp, control], the judgment temp can be offset by outdoor temp		
	Auto fan speed control	Auto switching range for the auto fan speed control can be set.		
	IU overload alarm	If the difference between the setting temperature and the suction temperature becomes larger than the temperature difference set for the overload alarm, at 30 minutes after the start of operation, the overload alarm signal is transmitted from the external output (CnT-5).	0	-
				-

Setting & di	isplay item	Description	RC-EX3A	RC-E5
4 Service & Maintenance [Service password]	IU address	Max 16 indoor units can be connected to one remote control, and all address No. of the connected indoor units can be displayed. • The indoor unit conforming to the address No. can be identified by selecting the address No. and tapping [Check] to operate the indoor fan.	0	-
	Next service date	The [Next service date] can be registered. • The [Next service date] and [Company information] is displayed on the message screen.	0	-
	Operation data	The [Operation data] for indoor unit and outdoor unit can be displayed.	0	0
	Error display			
	Error history	The error history can be displayed.		
	Display anomaly data	The operation data just before the latest error stop can be displayed.		Δ
	Erase anomaly data	Anomaly operation data can be erased.		
	Reset periodical check	The timer for the periodical check can be reset.		
	Saving IU settings	The I/U settings memorized in the indoor PCB connected to the remote control can be saved in the memory of the remote control.	0	_
	Special settings	[Erase IU address] [CPU reset] [Restore of default setting] [Touch panel calibration]	0	\triangle
	Indoor unit capacity display	Address No. and capacities of indoor units connected to the remote control are displayed.	0	_
8.Contact company		Shows registered [Contact company] and [Contact phone].	0	_
9.Inspection				
Confirmation of Inspection		This is displayed when any error occurs.	0	_
10.PC connection	<u> </u>			
USB connection		Weekly timer setting and etc., can be set from PC.	0	_

^{*1} It supports only following functions.

Operation output / Heating output / Compressor ON output / Inspection (Error) output / Cooling output / Fan operation output 1 / Fan operation output 2 / Fan operation output 3 / Defrost/oil return output

RKZ012A099

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

Accessories included in package

Be sure to check all the accessories included in package.

No.	Part name				
1	Indoor unit's connection cable (cable length: 1.8m)	1			
2	Wood screws (for mounting the interface: ø4x 25)	2			
3	Tapping screws (for the cable clump and the interface mounting bracket)	3			
4	Interface mounting bracket	1			
⑤	Cable clamp (for the indoor unit's connection cable)	1			
6	CnT terminal connection cable (total cable length: 0.5m)	1			

Safety precautions

Before use, please read these Safety precautions thoroughly before installation.

 All the cautionary items mentioned below are important safety related items to be taken into consideration, so be sure to observe them at all times.

⚠Warning Incorrect installation could lead to serious consequences such as death, major injury or environmental destruction.

Symbols used in these precautions



Always go along these instruction.

• After completed installation, carry out trial operation to confirm no anomaly, and ask the user to keep this installation manual in a good place for future reference.



●Installation must be carried out by a qualified installer.

If you install it by yourself, it may cause an electric shock, fire and personal injury, as a result of a system malfunction.

• Install it in full accordance with the installation manual.

Incorrect installation may cause an electric shock, fire and personal injury.

• Electrical work must be carried out by a qualified electrician in accordance with the technical standard for electrical equipment, the indoor wiring standard and this installation manual.

Incorrect installation may cause an electric shock, fire and personal injury.

• Use the specific cables for wiring. And connect all the cables to terminals or connectors securely and clamp them with cable clamps in order for external forces not to be transmitted to the terminals directly.

Incomplete connection may cause malfunction, and lead to heat generation and fire.

• Use the original accessories and specified components for installation.

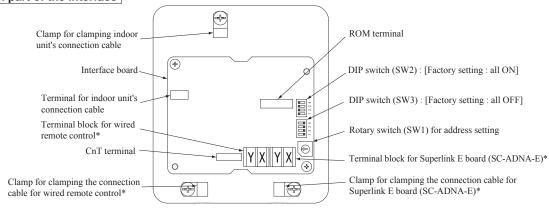
If the parts other than those prescribed by us are used, it may cause an electric shock, fire and personal injury.

Connecting the indoor unit's connection cable to the interface

- ①Remove the upper case of the interface.
 - Remove 2 screws from the interface casing before removal of upper casing.
- ②Connect the indoor unit's connection cable to the interface.
 - Connect the connector of the indoor unit connection cable to the connector on the interface's circuit board.
- (3) Fix the indoor unit's connection cable with the cable clamp.
 - Cable can be brought in from the top or from the back.
 - Cut out the punch-outs for the connection cables running into the casing with cutter.
- (4) Connect the indoor unit's connection cable to the indoor unit control PCB.
 - · Connect the indoor unit's connection cable to the indoor unit control PCB securely.
 - Clamp the connection cable to the indoor control box securely with the cable clamp provided as an accessory.
 - Regarding the cable connection to the indoor unit, refer to the installation manual for indoor unit.

© Fix the cable with the cable clamp © Connect the indoor unit's connection cable er. Direction Cable The structure of the upper case for

Name of each part of the interface



*Either the connection cables of Superlink E board (SC-ADNA-E) or of wired remote control is connectable.

Switch	Setting	Function	Switch	Setting	Function
SW2-1	ON**	CnT level input	SW2-3	ON**	External input (CnT input)
3 W 2-1	OFF	CnT pulse input	3 W 2-3	OFF	Operation permission/prohibition (CnT input)
SW2-2	ON**	Wired remote control : Enable	SW2-4	ON**	Annual cooling : Enable***
3 W 2-2	OFF	Wired remote control : Disable	3 W 2-4	OFF	Annual cooling : Disable***

^{**} Factory setting

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

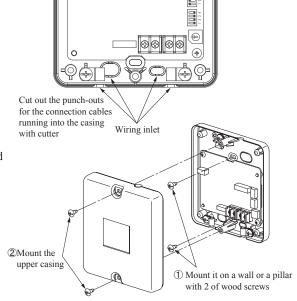
Wiring inlet

Installation of the interface

- Install the interface within the range of the connection cable length (approximately 1.3m) from the indoor unit.
- Be sure not to extend the connection cable on site. If the connection cable is extended, malfunction may occur.
- Fix the interface on the wall, pillar or the like.
- Don't install the interface and wired remote control at the following places.
 - OPlaces exposed to direct sunlight
 - OPlaces near heating devices
- OHigh humidity places
- OSurfaces where are enough hot or cold to generate condensation
- OPlaces exposed to oil mist or steam directly
- OUneven surface

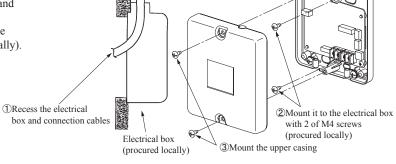
Mounting the interface directly on a wall

- ①Mount the lower casing of the interface on a flat surface with wood screws provided as standard accessory.
- 2 Mount the upper casing.



Recessing the interface in the wall

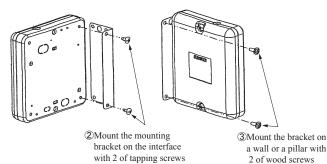
- ①Recess the electrical box (procured locally) and connection cables in the wall.
- ②Mount the lower casing of the interface to the electrical box with M4 screws (procured locally).
- 3 Mount the upper casing.



Connection cable

Mounting the interface with the mounting bracket

- ①Mount the upper casing.
- ②Mount the mounting bracket to the interface with tapping screws provided as standard accessory.
- ③Mount the mounting bracket on wall or the like with wood screws provided as standard accessory.



Installation check items

- ☐ Are the connection cables connected securely to the terminal blocks and connectors?
- ☐ Are the thickness and length of the connection cables conformed with the standard?

Functions of CnT connector

Function

Output 1 Operation output

Output 4 | Malfunction output

Output 3 | Compressor operation output

Output 2 | Heating output

Output

It is available to operate the air-conditioner and to monitor the operation status with the external control unit (remote display) by sending the input/output signal through CnT connector on the indoor unit control PCB.

Content

During air-conditioner operation

During heating operation

During anomalous stop

During compressor running

- ①Connect a external remote control unit (procured locally) to CnT terminal.
- ②In case of the pulse input, switch OFF the DIP switch SW2-1 on the interface PCB.
- ③When setting operation permission/prohibition mode, switch OFF the DIP switch SW2-3 on the interface PCB.

Output signal

Relav

 XR_1

 XR_2

 XR_3

XR4

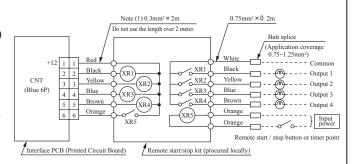
ON/OFF

ON

ON

ON

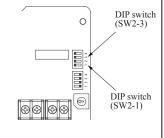
ON



- •XR₁₋₄ are for the DC 12V relay
- XR5 is a DC 12/24V or AC 220-240V relay
- CnT connector (local) maker, model

Connector	Molex	5264-06
Terminals	Molex	5263T

T 4/		SW2-1			SW2-3			Air-	On anotion by	
Input/ Output	Function		Setting	Setting	Input signal		Content	conditioner	Operation by remote control	
op			betting	betting	Level/Pulse	XR5	Content			
				ON*		OFF→ON	External input	ON		
		ON*	ON* Level input –	ON.	Level	ON→OFF	1	OFF	Allowed	
	F . 1	ON LC		OFF		OFF→ON	Operation permission	OFF		
Input	External					ON→OFF	Operation prohibition	OFF	Not allowed	
	input		OFF Pulse input	ON*	D 1	OFF OM	E ON E 4 1: 4	OFF→ON		
		OFF			Pulse	OFF→ON	External input	ON→OFF	Allowed	
		1 OFF→ON	Operation permission	ON						
				Orr	Level	ON→OFF	Operation prohibition	OFF	Not allowed	



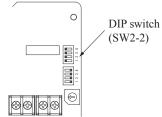
In case of the remote control (RC-EX3A or later model), the external outputs (1-4) and the external input can be changed using the function setting of remote control. For the setting method, refer to the installation manual. Also refer to the technical manual to know how it is adapted to the function setting for the external outputs and input, at the indoor unit side.

Connection of Superlink E board

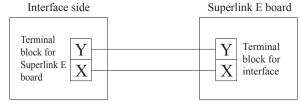
Regarding the connection of Superlink E board, refer to the installation manual of Superlink E board. For electrical work, power source for all of units in the Superlink system must be turned OFF.

①Switch ON the DIP switch SW2-2 (Factory setting: ON) on the interface PCB.

Caution:Wireless remote control attached to the indoor unit can be used in parallel, after connecting the wired remote control. However, some of functions other than the basic functions such as RUN/STOP, temperature setting, etc. may not work properly and may have a mismatch between the display and the actual behavior.



②Wiring connection between the interface and the Superlink E board.



No.	Names of recommended signal wires
1	Shielded wire
2	Vinyl cabtyre round cord
3	Vinyl cabtyre round cable
4	Vinyl insulated wire vinyl sheathed cable for control

Within 200 m $0.5 \text{ mm}^2 \times 2 \text{ cores}$ Within 300 m $0.75 \text{ mm}^2 \times 2 \text{ cores}$

Within 400 m $1.25 \text{ mm}^2 \times 2 \text{ cores}$ Within 600 m $2.0 \text{ mm}^2 \times 2 \text{ cores}$

(3) Clamp the connection cables with cable clamps.

^{*} Factory setting

Connection of wired remote control

Regarding the connection of wired remote control, refer to the installation manual of wired remote control. ①Switch ON the DIP switch SW2-2 (Factory setting : ON) on the interface PCB.

Caution: Wireless remote control attached to the indoor unit can be used in parallel, after connecting the wired remote control. However, some of functions other than the basic functions such as RUN/STOP, temperature setting, etc. may not work properly and may have a mismatch between the display and the actual behavior.

2) Wiring connection between the interface and the wired remote control.

O DIP suitch (SW2-2)

Installation and wiring of wired remote control

- (A) Install the wired remote control with reference to the attached installation manual of wired remote control.
- ⊕ 0.3mm² x 2 cores cable should be used for the wiring of wired remote control.
- Maximum length of wiring is 600m.

If the length of wiring exceeds 100m, change the size of cable as mentioned below.

100m-200m: 0.5mm² × 2 cores, 300m or less: 0.75mm² × 2 cores, 400m or less: 1.25mm² × 2 cores, 600m or less: 2.0mm² × 2 cores However, cable size connecting to the terminal of wired remote control should not exceed 0.5mm². Accordingly if the size of connection cable exceeds 0.5mm², be sure to downsize it to 0.5mm² at the nearest section of the wired remote control and waterproof treatment should be done at the connecting section in order to avoid contact failure.

- Don't use the multi-core cable to avoid malfunction.
- Except he wiring of wired remote control away from grounding (Don't touch it to any metal frame of building, etc.).
- © Connect the connection cables to the terminal blocks of the wired remote control and the interface securely (no polarity).
- 3Clamp the connection cables with cable clamps.

Control of multiple units by a single wired remote control

Multiple units (up to 16) can be controlled by a single wired remote control. In this case, all units connected with a single wired remote control will operate under the same mode and same setting temperature.

- ①Connect all the interface with 2 cores cables of wired remote control line.
- ②Set the address of indoor unit for remote control communication from "0" to "F" with the rotary switch SW1 on the interface PCB.
- ③After turning the power ON, the address of indoor unit can be displayed by pressing AIR CON No. button on the wired remote control.

 Make sure all indoor units connected are displayed in order by pressing

 or □ button

Master/Slave setting wired when 2 of wired remote control are used

Maximum two wired remote control can be connected to one indoor unit (or one group of indoor units)

- ①Set the DIP switch SW1 on the wired remote control to "Slave" for the slave remote control. (Factory setting: Master)
 - O Caution: Remote control sensor of the slave remote control is invalid.
- When using the wireless remote control in parallel with the wired remote control; Since temperature setting range of wired remote control is different from that of wireless remote control, please adjust the setting range of wired remote control to be the same setting range of wireless remote control by following procedure. (The set temperature may not be displayed correctly on the wireless remote control, unless change of temperature setting range is done.)

 Changing procedure of temperature setting range is as follows.

How to set upper and lower limit of temperature setting range

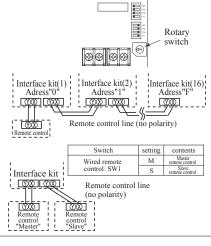
- 1. Stop the air-conditioner, and press (SET) and (MODE) button at the same time for 3 seconds or more.
 - The indication changes to "FUNCTION SET▼"
- 2. Press ▼button once, and change to the "TEMP RANGE ▲" indication.
- 3. Press (SET) button, and enter the temperature range setting mode.
- 4. Confirm that the "Upper limit ▼" is shown on the display.
- 5. Press (SET)button to fix.
- 6. ①Indication: " $\bigcirc \lor \land SETUP" \rightarrow "UPPER 28^{\circ}C \lor \land "$
 - ②Select the upper limit value 30°C with temperature setting button \triangle ."UPPER30°C \vee " (blinking)
 - ③Press (SET) button to fix. "UPPER 30°C" (Displayed for two seconds)

 After the fixed upper limit value displayed for two seconds, the indication will returm to "UPPER LIMIT ▼".
- Press button once, "LOWER LIMIT "is selected, press (SET) button to fix. DIndication: "b∨ ∧ SET UP" → "LOWER 20°C ∨ ∧"
 - ②Select the lower limit value 18°C with temperature setting button ☑."LOWER18°C ∧" (blinking)
 - ③Press ⊙ (SET) button to fix. "LOWER 18°C" (Displayed for two seconds)

 After the fixed lower limit value displayed for two seconds, the indication will returm to "LOWER LIMIT▼"
- 8. Press ON/OFF button to finish

Temperature setting range

emperature setting range	
Mode	Temperature setting range
Cooling, Heating, Dry, Auto	18-30℃



• It is possible to quit in the middle by pressing <u>ON/OFF</u> button, but the change of setting is incompleted.

0 8 0

 \blacksquare

Previous button

• During setting, if pressing (RESET) button, it returns to the previous screen.

TEMP RANGE

(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

Safety precautions

- Carefully read "Safety precautions" first. Follow the instructions for installation.
 Precautions are grouped into "Warning⚠" and "Caution⚠". The "Warning⚠" group includes items that may lead to serious injury or death if not observed. The items included in the "Caution⚠" group also may lead to serious results under certain conditions. Both groups are crucial for safety installation. Read and understand them carefully.
- After installation, conduct the test operation of the device to check for any abnormalities. Describe how to operate the device to the customer following the installation instruction manual. Instruct the customer to keep this installation instruction for future reference.

∆WARING

- 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)

Accessories

SL E board	Metal box	Metal cover	Screw for ground
	[9]		M4×8L 2 pieces
Pan head screws	Locking supports	Binding band	Grommet
ø4x8L 2 pieces	To secure the print board and the metal box Made of nylon 4 pieces	68	

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 SLE board as in the following.

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

ACAUTION

- 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.

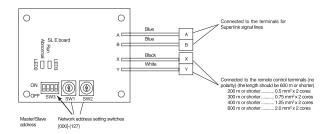
 Do not install the device in the following locations.
- - 1. Where there is mist/spray of oil or steam such as kitchens.

 - Where there is corrosive gases such as sulfurous acid gas.
 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)



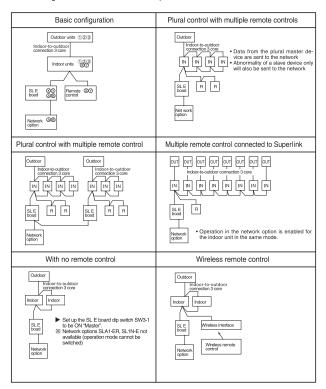
Whether the actual link is either the new Superlink or the previous Superlink depends on the models of the connected outdoor and indoor units. Consult the agent or the dealer.

Signal line specification

	Communication method	Previous Superlink	New Superlink
Li	ine type	MVVS	MVVS
Li	ne diameter	0.75 - 1.25mm ²	0.75/1.25mm ²
S	ignal line (total length)	up to 1000m	up to 1500/1000m (*2)
S	ignal line (maximum length)	up to 1000m	up to 1000m

- (*2) Up to 1500 m for 0.75 mm^2 , and up to 1000 m for 1.25 mm^2 . Do not use 2.0 mm². It may cause an error.
- (*3) Connect grounding on both ends of the shielding wire. For the grounding method, refer to the section "6 Installation".

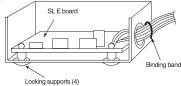
- Set the Superlink network address with SW1 (tens place), SW2 (ones place), and SW3 (hundreds place).
- (2) Set the SL E board SW3-1 to be ON (Master) when using this without any remote control (no wired remote control nor wireless remote control).
- (3) Set up the plural master/slave device using the 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):
 - (1) Mount the SL E board in the metal box using the locking supports.
 - (2) Wiring should go through the provided grommet since then through the wiring to the hole on the Metal box.

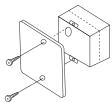
Secure the grommet after inserting the grommet into the Metal box as shown in below figure, then tie the wiring at the outlet of the unit using a binding band.



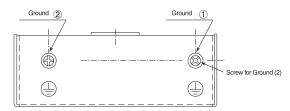
▲ When installed outside the indoor unit, put the metal cover on.



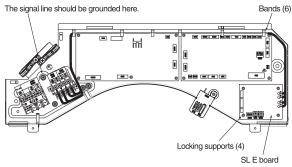
▲ When installed on the back of the remote control, mount it directly on the remote control bottom case.



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



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



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

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

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

Location of installation

Install the device at the location where there are no electromagnetic waves nor where there is water and dust. The specified temperature range of the device is 0 to 40° C. Install the device at the location where the ambient temperature stays within the range. If it exceeds the specification, make sure to provide solution such as installing a cooling fan. When used outside of the range, it may cause abnormal operation.

7 Indicator display

Check the LED 3 (green) and LED 2 (red) on the SL E board for flashing.

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

12. TECHNICAL INFORMATION Model SRK20ZS-W

Model SRK20ZS-W	\ to which the inferre	ation valatos to:	I life franction includes be ation. Indicate	a tha baating as	a a m th a
Information to identify the model(s Indoor unit model name) to which the information (SRK20ZS-W	ation relates to:	If function includes heating: Indicate information relates to. Indicated val		
Outdoor unit model name	SRC20ZS-W		heating season at a time. Include a		
	•				
Function(indicate if present)			Average(mandatory)	Yes	
cooling	Yes		Warmer(if designated)	Yes	
neating	Yes		Colder(if designated)	No	
tem	symbol val	ue unit	Item	symbol	value class
Design load			Seasonal efficiency and energy effi		
cooling		2.00 kW	cooling	SEER	8.50 A++-
neating / Average		2.60 kW	heating / Average	SCOP/A	4.60 A++
neating / Warmer		3.30 kW	heating / Warmer	SCOP/W	5.80 A++-
neating / Colder	Pdesignh	- kW	heating / Colder	SCOP/C	
Declared capacity at outdoor temp	erature Tdesignh		Back up heating capacity at outdoo	r temperature To	unit Tesianh
neating / Average (-10°C)		2. 60 kW	heating / Average (-10°C)	elbu	- kW
neating / Warmer (2°C)	Pdh	3.30 kW	heating / Warmer (2°C)	elbu	- kW
neating / Colder (-22°C)	Pdh	- kW	heating / Colder (-22°C)	elbu	- kW
			1		
Declared capacity for cooling, at ir	ndoor temperature 27	′(19)℃ and	Declared energy efficiency ratio, at	indoor temperatu	ure 27(19)°C and
outdoor temperature Tj	Ddo 4	2.00	outdoor temperature Tj	EED4 [A EE
Γj=35°C Γj=30°C		2.00 kW 1.40 kW	Tj=35°C Tj=30°C	EERd EERd	4.55 - 6.80 -
Tj=30 C Tj=25°C		1.00 kW	Tj=30 C	EERd	11.80 -
Γj=20°C		1.00 kW	Tj=20°C	EERd	18.20 -
<u> </u>		r a passi	1		
Declared capacity for heating / Av		oor	Declared coefficient of performance		on, at indoor
emperature 20°C and outdoor ten		1	temperature 20°C and outdoor tem		
Γj=-7°C		2.40 kW	Tj=-7°C	COPd	2.50 -
Γj=2°C		1.40 kW	Tj=2°C	COPd	4.70 -
Γj=7°C Γj=12°C		0.95 kW 1.10 kW	Tj=7°C Tj=12°C	COPd COPd	6.24 - 7.80 -
rj=12 C rj=bivalent temperature		1.10 KVV 2.60 KW	Tj=12 C	COPa	2.20 -
[j=operating limit		2.10 kW	Tj=blvalent temperature Tj=operating limit	COPd	2.05
j-operating in the	T UII	L.10 KVV	II)—operating infin	001 0	2.00
Declared capacity for heating / Wa	armer season, at indo	oor	Declared coefficient of performance	e / Warmer seaso	on, at indoor
emperature 20°C and outdoor ten	nperature Tj		temperature 20°C and outdoor tem	perature Tj	
Γj=2°C		3.30 kW	Tj=2°C	COPd	2.57 -
Γj=7°C		2.10 kW	Tj=7°C	COPd	5.12 -
Гj=12°С		1.10 kW	Tj=12°C	COPd	7.80 -
j=bivalent temperature		3.30 kW	Tj=bivalent temperature	COPd	2.57 -
Γj=operating limit	Pdh 2	2.10 kW	Tj=operating limit	COPd	2.05 -
Declared capacity for heating / Co	lder season, at indoo	r	Declared coefficient of performance	e / Colder seasor	at indoor
temperature 20°C and outdoor ten		•	temperature 20°C and outdoor tem		1, 41 114001
Γj=-7°C	Pdh	- kW	Tj=-7°C	COPd	
Γj=2°C	Pdh	- kW	Tj=2°C	COPd	
Tj=7°C	Pdh	- kW	Tj=7°C	COPd	
Tj=12°C	Pdh	- kW	Tj=12°C	COPd	
Tj=bivalent temperature	Pdh	- kW	Tj=bivalent temperature	COPd	
Γj=operating limit	Pdh	- kW	Tj=operating limit	COPd	
Гj=-15°С	Pdh	- kW	Tj=-15°C	COPd	
Bivalent temperature			Operating limit temperature		
neating / Average	Tbiv	-10 °C	heating / Average	Tol	-15 °C
neating / Warmer	Tbiv	-10 °C	heating / Warmer	Tol	-15 °C
neating / Colder	Tbiv	<u>-</u> ℃	heating / Colder	Tol	- 1 0 °C
5		1-	<u> </u>		
Cycling interval capacity	=		Cycling interval efficiency		
or cooling	Pcycc	- kW	for cooling	EERcyc	-
or heating	Pcych	- kW	for heating	COPcyc	
Dogradation coefficient			Dogradation as afficiant		
Degradation coefficient cooling	Cdc	0.25 -	Degradation coefficient heating	Cdh	0.25 -
- Coming	Out (Ouii	0.20
Electric power input in power mod	es other than 'active	mode'	Annual electricity consumption		
Electric power input in power mod off mode	Poff	4 W	cooling	Qce	83 kWh/a
standby mode	Psb	4 W	heating / Average	Qhe	793 kWh/a
hermostat-off mode	Pto(cooling)	10 W	heating / Warmer	Qhe	797 kWh/a
	Pto(heating)	11 W	heating / colder	Qhe	- kWh/a
crankcase heater mode	Pck	0 W	J		
Capacity control(indicate one of th	ree ontions)		Other items		
Sapacity Control(indicate one of th	ree options)		Sound power level(indoor)	Lwa	48 dB(A)
			Sound power level(indoor)	Lwa	56 dB(A)
ixed	No		Global warming potential	GWP	675 kgCO2
staged	No		Rated air flow(indoor)	-	558 m3/h
variable	Yes		Rated air flow(outdoor)	-	1644 m3/h
	•				
Contact details for obtaining			nufacturer or of its authorised represer	ntative.	
	subishi Heavy Indust				
		нагк, Uxbridge,	Middlesex, UB11 1ET,		
Un	ited Kingdom				

SRK25ZS-W

SRK25ZS-W						
Information to identify the model(s) to	which the info	rmation relates to:	If function includes heating: Indicate	the heating se	ason the	
Indoor unit model name	SRK25ZS		information relates to. Indicated value			
Outdoor unit model name	SRC25ZS	-W	heating season at a time. Include at	least the heati	ng seasor	'Average'.
Function/indicate if present)			Average (mandatanı)	Vac		
Function(indicate if present) cooling	Yes		Average(mandatory) Warmer(if designated)	Yes Yes		
heating	Yes		Colder(if designated)	No		
Treating	163		Colder(ii designated)	I NO		
Item	symbol	value unit	Item	symbol	value	class
Design load			Seasonal efficiency and energy effici	ency class		
cooling	Pdesignc	2.50 kW	cooling	SEER	8.50	A+++
heating / Average	Pdesignh	2.70 kW	heating / Average	SCOP/A	4.70	A++
heating / Warmer	Pdesignh	3.30 kW	heating / Warmer	SCOP/W	5.90	A+++
heating / Colder	Pdesignh	- kW	heating / Colder	SCOP/C	-	- unit
Declared capacity at outdoor temperate	ture Tdesianh		Back up heating capacity at outdoor	temperature T	desianh	unit
heating / Average (-10°C)	Pdh	2.70 kW	heating / Average (-10°C)	elbu	-	kW
heating / Warmer (2°C)	Pdh	3.30 kW	heating / Warmer (2°C)	elbu	-	kW
heating / Colder (-22°C)	Pdh	- kW	heating / Colder (-22°C)	elbu	-	kW
		•			•	•
Declared capacity for cooling, at indoo	r temperature	27(19)°C and	Declared energy efficiency ratio, at ir	ndoor tempera	ture 27(19)°C and
outdoor temperature Tj	- · I		outdoor temperature Tj			-
Tj=35°C	Pdc	2.50 kW	Tj=35°C	EERd	4.03	_ -
Tj=30°C	Pdc	1.80 kW	Tj=30°C	EERd	6.45	
Tj=25°C	Pdc	1.11 kW	Tj=25°C	EERd	11.80	- -
Tj=20°C	Pdc	1.10 kW	Tj=20°C	EERd	18.20	<u> </u> -
Declared capacity for heating / Average	le season at i	ndoor	Declared coefficient of performance	/ Average sea	son at inc	loor
temperature 20°C and outdoor temper			temperature 20°C and outdoor temperature		, ut 1110	
Tj=-7°C	Pdh	2.40 kW	Tj=-7°C	COPd	2.50	7-
Tj=2°C	Pdh	1.40 kW	Tj=2°C	COPd	4.92	7-
Tj=7°C	Pdh	0.95 kW	Tj=7°C	COPd	6.15	7-
Tj=12°C	Pdh	1.10 kW	Tj=12°C	COPd	7.86]-
Tj=bivalent temperature	Pdh	2.70 kW	Tj=bivalent temperature	COPd	2.40	7-
Tj=operating limit	Pdh	2.30 kW	Tj=operating limit	COPd	2.10]-
		•				•
Declared capacity for heating / Warme		ndoor	Declared coefficient of performance		on, at ind	oor
temperature 20°C and outdoor temper		0.00	temperature 20°C and outdoor temperature 20°C and outdoor temperature		0.70	7
Tj=2°C	Pdh	3.30 kW	Tj=2°C	COPd	2.70	
Tj=7°C	Pdh	2.10 kW	Tj=7°C	COPd	5.23	
Tj=12°C	Pdh	1.10 kW	Tj=12°C	COPd	7.86	
Tj=bivalent temperature	Pdh	3.30 kW	Tj=bivalent temperature	COPd	2.70	
Tj=operating limit	Pdh	2.10 kW	Tj=operating limit	COPd	2.10	-
Declared capacity for heating / Colder	season at in	door	Declared coefficient of performance	/ Colder seaso	n at indo	or
temperature 20°C and outdoor temper			temperature 20°C and outdoor temperature		, atao	0.
Tj=-7°C	Pdh	- kW	Tj=-7°C	COPd	-	7-
Tj=2°C	Pdh	- kW	Tj=2°C	COPd	-	7-
Tj=7°C	Pdh	- kW	Tj=7°C	COPd	-	1 -
Tj=12°C	Pdh	- kW	Tj=12°C	COPd	-	7-
Tj=bivalent temperature	Pdh	- kW	Tj=bivalent temperature	COPd	-	7-
Tj=operating limit	Pdh	- kW	Tj=operating limit	COPd	-	7-
Tj=-15℃	Pdh	- kW	Tj=-15℃	COPd	-	-
			112			
Bivalent temperature	This I	40 °C	Operating limit temperature	Tal	45	¬∘ _∽
heating / Average	Tbiv	-10 °C 2 °C	heating / Average heating / Warmer	Tol	-15	_°C _°C
heating / Warmer	Tbiv			Tol	-15	- C
heating / Colder	Tbiv	- °C	heating / Colder	Tol	-	IC
Cycling interval capacity			Cycling interval efficiency			
for cooling	Pcycc	- kW	for cooling	EERcyc	-	7-
for heating	Pcych	- kW	for heating	COPcyc	-	7-
-						
Degradation coefficient			Degradation coefficient			
cooling	Cdc	0.25 -	heating	Cdh	0.25	-
			Appual algorigity as a supporting			
Electric power input in power modes o			Annual electricity consumption cooling	Qce	103	kWh/a
off mode	Poff	4W	heating / Average	Qce Qhe	804	kWh/a
standby mode	Psb	4 W	heating / Warmer	Qhe	784	kWh/a
thermostat-off mode	Pto(cooling) Pto(heating)	10 W 11 W	heating / warmer	Qhe		kWh/a
crankcase heater mode	Pck Pck	0 W	sating / colder	Q.IC		[ATTING
	1 011	J ĮVV				
Capacity control(indicate one of three	options)		Other items			_
	•		Sound power level(indoor)	Lwa	50	dB(A)
			Sound power level(outdoor)	Lwa	56	dB(A)
fixed	No		Global warming potential	GWP	675	kgCO2eq.
staged	No		Rated air flow(indoor)	-	594	m3/h
variable	Yes		Rated air flow(outdoor)	-	1644	m3/h
Contact details for obtaining			anufacturer or of its authorised represent	ative.		
			oning Europe, Ltd. , Middlesex, UB11 1ET,			
		icy i aik, Oxbiiuge	, MINGUICOCA, ODITIEI,			
II Initad	Kinddom					
United	Kingdom					

SRK35ZS-W

SRK35ZS-W							
Information to identify the model(s) to v	hich the info	ormation rela	ates to:	If function includes heating: Indicate th	e heating se	ason the	
Indoor unit model name	SRK35ZS			information relates to. Indicated values			
Outdoor unit model name	SRC35ZS	5-W		heating season at a time. Include at le	ast the heati	ng season	'Average'.
Function/indicate if present)				Average (mandatage)	Vaa		
Function(indicate if present) cooling	Yes			Average(mandatory) Warmer(if designated)	Yes Yes		
heating	Yes			Colder(if designated)	No		
neating	163			Colder(ii designated)	140		
Item	symbol	value u	ınit	Item	symbol	value	class
Design load				Seasonal efficiency and energy efficient	ncy class		
cooling	Pdesignc		:W	cooling	SEER	8.40	A++
heating / Average	Pdesignh		W	heating / Average	SCOP/A	4.70	A++
heating / Warmer	Pdesignh		:W	heating / Warmer	SCOP/W	6.00	A+++
heating / Colder	Pdesignh	- k	W	heating / Colder	SCOP/C	-	- unit
Declared capacity at outdoor temperate	ıre Tdesianh	1		Back up heating capacity at outdoor te	mnerature T	desianh	unit
heating / Average (-10°C)	Pdh		:W	heating / Average (-10°C)	elbu		kW
heating / Warmer (2°C)	Pdh		:W	heating / Warmer (2°C)	elbu	-	kW
heating / Colder (-22°C)	Pdh		:W	heating / Colder (-22°C)	elbu	-	kW
						•	•
Declared capacity for cooling, at indoor	temperature	e 27(19)℃ a	ind	Declared energy efficiency ratio, at ind	oor tempera	ture 27(19)°C and
outdoor temperature Tj				outdoor temperature Tj			7
Tj=35°C	Pdc		:W	Tj=35°C	EERd	3.82	_ -
Tj=30°C	Pdc		:W	Tj=30°C	EERd	5.82	
Tj=25°C	Pdc		W.	Tj=25°C	EERd	11.20	- -
Tj=20°C	Pdc	1.07 k	:W	Tj=20°C	EERd	18.50	<u> </u>
Declared capacity for heating / Average	season at	indoor		Declared coefficient of performance / /	Average sea	son at ind	loor
temperature 20°C and outdoor tempera				temperature 20°C and outdoor temper		, at 111U	
Tj=-7°C	Pdh	2.65 k	W	Tj=-7°C	COPd	2.50	7-
Tj=2℃	Pdh		:W	Tj=2°C	COPd	4.92	7-
Tj=7°C	Pdh		W	Tj=7°C	COPd	6.10	7-
Tj=12°C	Pdh	1.16 k	W	Tj=12°C	COPd	7.86]-
Tj=bivalent temperature	Pdh	3.00 k	W	Tj=bivalent temperature	COPd	2.40	7-
Tj=operating limit	Pdh	2.52 k	W	Tj=operating limit	COPd	2.10]-
		-					•
Declared capacity for heating / Warme		indoor		Declared coefficient of performance / \		on, at ind	oor
temperature 20°C and outdoor tempera		0.70		temperature 20°C and outdoor temper		0.00	7
Tj=2°C	Pdh		:W	Tj=2°C	COPd	2.80	
Tj=7°C	Pdh		:W	Tj=7°C	COPd	5.20	
Tj=12°C	Pdh		:W	Tj=12°C	COPd	7.86	- 1
Tj=bivalent temperature	Pdh		:W	Tj=bivalent temperature	COPd	2.80	
Tj=operating limit	Pdh	2.52 k	W	Tj=operating limit	COPd	2.10	-
Declared capacity for heating / Colder:	season at in	door		Declared coefficient of performance / 0	Colder seaso	n at indo	or
temperature 20°C and outdoor tempera				temperature 20°C and outdoor temper		, atao.	0.
Tj=-7°C	Pdh	- k'	:W	Tj=-7°C	COPd	-	7-
Tj=2°C	Pdh	- k'	:W	Tj=2°C	COPd	-	7-
Tj=7°C	Pdh	- k'	W	Tj=7°C	COPd	-	1 -
Tj=12°C	Pdh	- k'	:W	Tj=12°C	COPd	-	7-
Tj=bivalent temperature	Pdh	- k'	:W	Tj=bivalent temperature	COPd	-	7-
Tj=operating limit	Pdh	- k'	W	Tj=operating limit	COPd	-	7-
Tj=-15°C	Pdh	- k'	:W	Tj=-15°C	COPd	-	-
Bivalent temperature	Thiv	40 %	_	Operating limit temperature	Tal	4.5	¬∘ _∽
heating / Average	Tbiv		C C	heating / Average heating / Warmer	Tol	-15	_°C _°C
heating / Warmer	Tbiv		C		Tol	-15	- C
heating / Colder	Tbiv	- "	<u> </u>	heating / Colder	Tol	-	IC
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pcycc	- k'	:W	for cooling	EERcyc	-	7-
for heating	Pcych		:W	for heating	COPcyc	-	7-
Degradation coefficient	_			Degradation coefficient	_		
cooling	Cdc	0.25 -		heating	Cdh	0.25	-
				Appual ala atriaitu cara constitue			
Electric power input in power modes of				Annual electricity consumption cooling	Qce	146	kWh/a
off mode	Poff	4 V		heating / Average	Qte	895	kWh/a
standby mode	Psb	4 V		heating / Average heating / Warmer	Qhe	863	kWh/a
thermostat-off mode	Pto(cooling) Pto(heating)	10 V		heating / warmer	Qhe	-	kWh/a
crankcase heater mode	Pck Pck	0 V		saarig / coldoi	Q110		[ATTING
S.GGGO HOULD HIDGO	1 010	. 5	•				
Capacity control(indicate one of three of	ptions)			Other items			_
	•			Sound power level(indoor)	Lwa	54	dB(A)
				Sound power level(outdoor)	Lwa	61	dB(A)
fixed	No			Global warming potential	GWP	675	kgCO2eq.
staged	No			Rated air flow(indoor)	-	678	m3/h
variable	Yes			Rated air flow(outdoor)	-	1890	m3/h
Contact details for obtaining				ufacturer or of its authorised representat	ive.		
more information Mitsubis				ing Europe, Ltd.			
	uliato Ctori						
5 The S		kiey Park, Ux	xbriage, i	Middlesex, UB11 1ET,			
5 The S	quare, Stock (ingdom	кіеў Рагк, Ох	xbridge, i	vildalesex, UB11 1E1,			

SRK50ZS-W

SRK50ZS-W			
Information to identify the model(s)	to which the information relates to:	If function includes heating: Indicate	the heating season the
Indoor unit model name	SRK50ZS-WB	information relates to. Indicated value	
Outdoor unit model name	SRC50ZS-W	heating season at a time. Include at	t least the heating season 'Average
Function/indicate if proceed)		Average (mandatamy)	Vac
Function(indicate if present) cooling	Yes	Average(mandatory) Warmer(if designated)	Yes Yes
heating	Yes	Colder(if designated)	No
neating	163	Colder(ii designated)	NO
Item	symbol value unit	Item	symbol value class
Design load	,	Seasonal efficiency and energy efficiency	
cooling	Pdesignc 5.00 kW	cooling	SEER 7.00 A++
heating / Average	Pdesignh 3.80 kW	heating / Average	SCOP/A 4.60 A++
heating / Warmer	Pdesignh 4.60 kW	heating / Warmer	SCOP/W 5.70 A+++
heating / Colder	Pdesignh - kW	heating / Colder	SCOP/C
		16	unit
Declared capacity at outdoor tempe	rature I designn Pdh 3.80 kW	Back up heating capacity at outdoor	
heating / Average (-10°C) heating / Warmer (2°C)	Pdh 4.60 kW	heating / Average (-10°C) heating / Warmer (2°C)	elbu - kW elbu - kW
heating / Colder (-22°C)	Pdh - kW	heating / Warmer (2 C)	elbu - kW
riedling / Colder (-22 C)	1 dii - RVV	rieating / Colder (-22 C)	elbu - RVV
Declared capacity for cooling, at ind	oor temperature 27(19)°C and	Declared energy efficiency ratio, at	indoor temperature 27(19)°C and
outdoor temperature Tj		outdoor temperature Tj	
Tj=35°C	Pdc 5.00 kW	Tj=35°C	EERd 3.70 -
Tj=30°C	Pdc 3.65 kW	Tj=30°C	EERd 5.40 -
Tj=25°C	Pdc 2.37 kW	Tj=25°C	EERd 8.30 -
Tj=20°C	Pdc 1.90 kW	Tj=20°C	EERd 13.00 -
Declared capacity for heating / Aver		Declared coefficient of performance	
temperature 20°C and outdoor temp		temperature 20°C and outdoor temp	
Tj=-7°C	Pdh 3.35 kW	Tj=-7°C	COPd 2.80 -
Tj=2°C Tj=7°C	Pdh 2.00 kW Pdh 1.30 kW	Tj=2°C Tj=7°C	COPd 4.60 - COPd 6.02 -
Tj=12°C	Pdh 1.30 kW		COPd 6.02 - COPd 7.41 -
Tj=bivalent temperature	Pdh 3.80 kW	Tj=bivalent temperature	COPd 7.41 -
Tj=blvalent temperature Tj=operating limit	Pdh 3.20 kW	Tj=blvalent temperature	COPd 2.30 -
Tj-operating inflit	1 dil 3.20 KVV	1]-operating limit	2.30
Declared capacity for heating / War	mer season, at indoor	Declared coefficient of performance	/ Warmer season, at indoor
temperature 20°C and outdoor temp		temperature 20°C and outdoor temp	
Tj=2°C	Pdh 4.60 kW	Tj=2°C	COPd 2.80 -
Tj=7°C	Pdh 2.90 kW	Tj=7°C	COPd 5.38 -
Tj=12°C	Pdh 1.50 kW	Tj=12°C	COPd 7.00 -
Tj=bivalent temperature	Pdh 4.60 kW	Tj=bivalent temperature	COPd 2.80 -
Tj=operating limit	Pdh 3.20 kW	Tj=operating limit	COPd 2.30 -
Declared conscitution beating / Cold	lar access of indeer	Declared coefficient of norformance	/ Calday assays at indees
Declared capacity for heating / Cold temperature 20°C and outdoor temp		Declared coefficient of performance temperature 20°C and outdoor 20°C and out	
Tj=-7°C	Pdh - kW	Tj=-7°C	COPd
Tj=2°C	Pdh - kW	Tj=2°C	COPd -
Tj=7°C	Pdh - kW	Tj=7°C	COPd -
Tj=12°C	Pdh - kW	Ti=12°C	COPd
Tj=bivalent temperature	Pdh - kW	Tj=bivalent temperature	COPd
Tj=operating limit	Pdh - kW	Tj=operating limit	COPd
Tj=-15℃	Pdh - kW	Tj=-15°C	COPd
] [-7	
Bivalent temperature		Operating limit temperature	
heating / Average	Tbiv -10 °C	heating / Average	Tol -15 ℃
heating / Warmer	Tbiv 2 °C	heating / Warmer	Tol -15 ℃
heating / Colder	Tbiv - °C	heating / Colder	Tol - °C
Cycling interval canasity		Cycling intorval officians:	
Cycling interval capacity for cooling	Pcycc - kW	Cycling interval efficiency for cooling	EERcyc
for heating	Pcych - kW	for heating	COPcyc
is. nodung	- NVV	I let flooding	
Degradation coefficient		Degradation coefficient	
cooling	Cdc 0.25 -	heating	Cdh 0.25 -
		11.	
Electric power input in power modes		Annual electricity consumption	0
off mode	Poff 4 W	cooling	Qce 250 kWh/a
standby mode	Psb 4 W	heating / Average	Qhe 1158 kWh/a
thermostat-off mode	Pto(cooling) 14 W	heating / Warmer	Qhe 1131 kWh/a
crankcase heater mode	Pto(heating) 15 W	heating / colder	Qhe - kWh/a
crankcase heater mode	Pck 0 W	1	
Capacity control(indicate one of thre	ee options)	Other items	
, , , , , , , , , , , , , , , , , , , ,		Sound power level(indoor)	Lwa 59 dB(A)
		Sound power level(outdoor)	Lwa 61 dB(A)
fixed	No	Global warming potential	GWP 675 kgCO2ed
staged	No	Rated air flow(indoor)	- 726 m3/h
variable	Yes	Rated air flow(outdoor)	- 1968 m3/h
	·		,
Contact details for obtaining		nufacturer or of its authorised represen	itative.
	ubishi Heavy Industries Air-Conditio		
	e Square, Stockley Park, Uxbridge,	ıvıladlesex, UB11 1ET,	
Unite	ed Kingdom		

SRK20ZS-WB

SRK20ZS-WB			
Information to identify the model(s)	to which the information relates to:	If function includes heating: Indicate	e the heating season the
Indoor unit model name	SRK20ZS-WB	information relates to. Indicated val	
Outdoor unit model name	SRC20ZS-W	heating season at a time. Include a	at least the heating season 'Average'.
Cupation/indicate if present		A. (araga (mandatan)	Vac
Function(indicate if present) cooling	Yes	Average(mandatory) Warmer(if designated)	Yes Yes
heating	Yes	Colder(if designated)	No
neating	163	Colder(ii designated)	NO
Item	symbol value unit	Item	symbol value class
Design load		Seasonal efficiency and energy efficiency	
cooling	Pdesignc 2.00 kW	cooling	SEER 8.50 A+++
heating / Average	Pdesignh 2.60 kW	heating / Average	SCOP/A 4.60 A++
heating / Warmer	Pdesignh 3.30 kW	heating / Warmer	SCOP/W 5.80 A+++
heating / Colder	Pdesignh - kW	heating / Colder	SCOP/C
Declared conscitu at outdoor town	oratura Tdaaigah	Back up heating capacity at outdoo	unit
Declared capacity at outdoor temporal heating / Average (-10°C)	Pdh 2.60 kW	Back up heating capacity at outdoo heating / Average (-10°C)	elbu - kW
heating / Warmer (2°C)	Pdh 3.30 kW	heating / Warmer (2°C)	elbu - kW
heating / Colder (-22°C)	Pdh - kW	heating / Colder (-22°C)	elbu - kW
		nearing recites (== e)	0.00
Declared capacity for cooling, at in-	door temperature 27(19)°C and	Declared energy efficiency ratio, at	indoor temperature 27(19)°C and
outdoor temperature Tj		outdoor temperature Tj	
Tj=35°C	Pdc 2.00 kW	Tj=35°C	EERd 4.55 -
Tj=30°C	Pdc 1.40 kW	Tj=30℃	EERd 6.80 -
Tj=25°C	Pdc 1.00 kW	Tj=25℃	EERd 11.80 -
Tj=20°C	Pdc 1.00 kW	Tj=20°C	EERd 18.20 -
Declared conseit for the first		Designed as #65' (f) f	
Declared capacity for heating / Ave		Declared coefficient of performance	
temperature 20°C and outdoor tem Tj=-7°C	Pdh 2.40 kW	temperature 20°C and outdoor and	COPd 2.50 -
Tj=2°C	Pdh 2.40 kW	Tj=2°C	COPd 2.50 -
Tj=2°C	Pdh 1.40 kW	Tj=2°C	COPd 4.70 -
Tj=12℃	Pdh 1.10 kW	Ti=12°C	COPd 7.80 -
Tj=bivalent temperature	Pdh 2.60 kW	Tj=bivalent temperature	COPd 2.20 -
Tj=operating limit	Pdh 2.10 kW	Tj=operating limit	COPd 2.05 -
., operating in inc		i j oporazing iii ii	33.4 2.00
Declared capacity for heating / Wa	rmer season, at indoor	Declared coefficient of performance	e / Warmer season, at indoor
temperature 20°C and outdoor tem		temperature 20°C and outdoor temp	perature Tj
Tj=2°C	Pdh 3.30 kW	Tj=2°C	COPd 2.57 -
Tj=7°C	Pdh 2.10 kW	Tj=7°C	COPd 5.12 -
Tj=12°C	Pdh 1.10 kW	Tj=12°C	COPd 7.80 -
Tj=bivalent temperature	Pdh 3.30 kW	Tj=bivalent temperature	COPd 2.57 -
Tj=operating limit	Pdh 2.10 kW	Tj=operating limit	COPd 2.05 -
Declared conscitutor beating / Cal	day access of indees	Declared apolicient of newformans	. / Caldar assault at indees
Declared capacity for heating / Col- temperature 20°C and outdoor tem		Declared coefficient of performance temperature 20°C and outdoor 20°C a	
Tj=-7°C	Pdh - kW	Tj=-7°C	COPd
Tj=2°C	Pdh - kW	Ti=2°C	COPd -
Tj=7°C	Pdh - kW	Tj=7°C	COPd
Tj=12℃	Pdh - kW	Ti=12°C	COPd
Tj=bivalent temperature	Pdh - kW	Tj=bivalent temperature	COPd
Tj=operating limit	Pdh - kW	Tj=operating limit	COPd
Tj=-15°C	Pdh - kW	Ti=-15°C	COPd
.,] [-]	
Bivalent temperature		Operating limit temperature	
heating / Average	Tbiv -10 °C	heating / Average	Tol <u>-15</u> °C
heating / Warmer	Tbiv 2 °C	heating / Warmer	Tol <u>-15</u> °C
heating / Colder	Tbiv - °C	heating / Colder	Tol - ℃
Cycling intonual conscitu		Cycling interval officiency	
Cycling interval capacity for cooling	Pcycc - kW	Cycling interval efficiency for cooling	EERcyc
for heating	Pcych - kW	for heating	COPcyc
.o. nouning	- KVV	_ por nodeing	
Degradation coefficient		Degradation coefficient	
cooling	Cdc 0.25 -	heating	Cdh 0.25 -
		11.	
Electric power input in power mode		Annual electricity consumption	0
off mode	Poff 4 W	cooling	Qce 83 kWh/a
standby mode	Psb 4 W	heating / Average	Qhe 793 kWh/a
thermostat-off mode	Pto(cooling) 10 W	heating / Warmer	Qhe 797 kWh/a
crankcase heater mode	Pto(heating) 11 W	heating / colder	Qhe - kWh/a
crankcase heater mode	Pck 0 W	_	
Capacity control(indicate one of thr	ree options)	Other items	
, , , , , , , , , , , , , , , , , , , ,	, ,	Sound power level(indoor)	Lwa 48 dB(A)
		Sound power level(outdoor)	Lwa 56 dB(A)
fixed	No	Global warming potential	GWP 675 kgCO2eq.
staged	No	Rated air flow(indoor)	- 558 m3/h
variable	Yes	Rated air flow(outdoor)	- 1644 m3/h
	· · · · · · · · · · · · · · · · · · ·	· · · · · ·	
Contact details for obtaining		nufacturer or of its authorised represer	ntative.
	subishi Heavy Industries Air-Conditio		
	he Square, Stockley Park, Uxbridge,	iviiadiesex, UB11 1E1,	
Uni	ted Kingdom		

SRK25ZS-WB

Information to identify the model(s) to						
Indoor unit model name	SRK25ZS		information relates to. Indicated val			
Outdoor unit model name	SRC25ZS	i-W	heating season at a time. Include a	t least the heating	ng season	'Average'
Function(indicate if present)			Average(mandatory)	Yes		
cooling	Yes		Warmer(if designated)	Yes		
heating	Yes		Colder(if designated)	No		
			_			
Item	symbol	value unit	ltem	symbol	value	class
Design load	D	0.50	Seasonal efficiency and energy effi		0.50	
cooling	Pdesignc	2.50 kW	cooling	SEER	8.50	A+++
heating / Average	Pdesignh	2.70 kW	heating / Average	SCOP/A	4.70	A++
heating / Warmer	Pdesignh	3.30 kW	heating / Warmer	SCOP/W	5.90	A+++
heating / Colder	Pdesignh	- kW	heating / Colder	SCOP/C	-	-
						unit
Declared capacity at outdoor tempera			Back up heating capacity at outdoor		designh	_
heating / Average (-10°C)	Pdh	2.70 kW	heating / Average (-10°C)	elbu	-	kW
heating / Warmer (2°C)	Pdh	3.30 kW	heating / Warmer (2°C)	elbu	-	kW
heating / Colder (-22°C)	Pdh	- kW	heating / Colder (-22°C)	elbu	-	kW
Declared capacity for cooling, at indoo	or temperature	e 27(19)°C and	Declared energy efficiency ratio, at	indoor tempera	ture 27(19)℃ and
outdoor temperature Tj			outdoor temperature Tj			_
Tj=35°C	Pdc	2.50 kW	Tj=35°C	EERd	4.03	
Tj=30°C	Pdc	1.80 kW	Tj=30°C	EERd	6.45	
Tj=25°C	Pdc	1.11 kW	Tj=25°C	EERd	11.80	
Tj=20°C	Pdc	1.10 kW	Tj=20°C	EERd	18.20	7-
Declared capacity for heating / Averag		indoor	Declared coefficient of performance		son, at ind	oor
temperature 20°C and outdoor temper			temperature 20°C and outdoor tem	perature Tj		_
Tj=-7°C	Pdh	2.40 kW	Tj=-7°C	COPd	2.50	
Tj=2℃	Pdh	1.40 kW	Tj=2°C	COPd	4.92	-
Tj=7°C	Pdh	0.95 kW	Tj=7°C	COPd	6.15]-
Tj=12°C	Pdh	1.10 kW	Tj=12°C	COPd	7.86	1-
Tj=bivalent temperature	Pdh	2.70 kW	Tj=bivalent temperature	COPd	2.40	-
Tj=operating limit	Pdh	2.30 kW	Tj=operating limit	COPd	2.10	վ_
r) specialis mini						
Declared capacity for heating / Warme	er season, at i	indoor	Declared coefficient of performance	e / Warmer seas	son, at ind	oor
temperature 20°C and outdoor temper			temperature 20°C and outdoor tem		,	
Tj=2°C	Pdh	3.30 kW	Tj=2°C	COPd	2.70	7-
Ti=7°C	Pdh	2.10 kW	∏i=7°C	COPd	5.23	վ_
Tj=12°C	Pdh	1.10 kW	Ti=12°C	COPd	7.86	┥_
Tj=bivalent temperature	Pdh	3.30 kW	Tj=bivalent temperature	COPd	2.70	1
Tj=operating limit	Pdh	2.10 kW	Tj=blvalent temperature	COPd	2.10	-[
1)-operating infin	1 dii	2.10	1]-operating infin	001 u	2.10	
Declared capacity for heating / Colder	easeon at in	door	Declared coefficient of performance	a / Colder seaso	n at indo	or
temperature 20°C and outdoor temper		uooi	temperature 20°C and outdoor tem		iii, at iiiuoi	JI
Tj=-7°C	Pdh	- kW	Tj=-7°C	COPd	-	1
Ti=2°C	Pdh		Ti=2°C	COPd	- -	- ⁻
Tj=2 C Ti=7°C	Pdh		Tj=7°C	COPd		- ⁻
,	-					- ⁻
Tj=12°C	Pdh	- kW	Tj=12°C	COPd	-	- -
Tj=bivalent temperature	Pdh	- kW	Tj=bivalent temperature	COPd	-	_ -
Tj=operating limit	Pdh	- kW	Tj=operating limit	COPd	-	
Tj=-15°C	Pdh	- kW	Tj=-15°C	COPd	-	-
Bivalent temperature	- 1.	40 00	Operating limit temperature	+ .		٦٠,
heating / Average	Tbiv	-10 °C	heating / Average	Tol	-15	_°C
L = -4!: / \ \ /:		2 ℃	heating / Warmer	+ ·		°C
heating / Warmer	Tbiv			Tol	-15	00
heating / Warmer heating / Colder	Tbiv	- ℃	heating / Colder	Tol Tol	-15 -	°C
heating / Colder	-		heating / Colder		-15	°C
heating / Colder Cycling interval capacity	Tbiv	- °C	heating / Colder Cycling interval efficiency	Tol	-15]°c
heating / Colder Cycling interval capacity for cooling	Tbiv	- ℃	heating / Colder Cycling interval efficiency for cooling	Tol EERcyc	-]°c
heating / Colder Cycling interval capacity	Tbiv	- °C	heating / Colder Cycling interval efficiency	Tol	-15]- -
heating / Colder Cycling interval capacity for cooling for heating	Tbiv	- ℃	heating / Colder Cycling interval efficiency for cooling for heating	Tol EERcyc	-	
heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient	Tbiv Pcycc Pcych	- kW - kW	heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient	Tol EERcyc COPcyc]- -
heating / Colder Cycling interval capacity for cooling for heating	Tbiv	- ℃	heating / Colder Cycling interval efficiency for cooling for heating	Tol EERcyc	-]- - -
heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient	Tbiv Pcycc Pcych	- kW - kW	heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating	Tol EERcyc COPcyc]- - -
heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient	Pcycc Pcych Cdc	- °C - kW - kW - one of the control	heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption	Tol EERcyc COPcyc	0.25]:
heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of mode	Pcycc Pcych Cdc Other than 'act Poff	- °C kW kW 0.25 -	heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling	Tol EERcyc COPcyc Cdh	0.25	- - -]-
heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of mode standby mode	Tbiv Pcycc Pcych Cdc Other than 'act Poff Psb	- C kW kW - kW - www.	heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average	Tol EERcyc COPcyc Cdh Qce Qhe	- - - 0.25	- - - -
heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of mode	Pcycc Pcych Cdc Other than 'act Poff Psb Pto(cooling)	- °C - kW - kW 0.25 - ive mode' 4 W 4 W 10 W	heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer	Tol EERcyc COPcyc Cdh Qce Qhe Qhe	- - - 0.25	- - - kWh/a kWh/a kWh/a
heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode	Pcycc Pcych Cdc Other than 'act Poff Psb Pto(cooling) Pto(heating)	- C kW - kW - W w w w w w w w w w w w w w w w w w	heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average	Tol EERcyc COPcyc Cdh Qce Qhe	- - - 0.25	- - - -
heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of mode standby mode	Pcycc Pcych Cdc Other than 'act Poff Psb Pto(cooling)	- °C - kW - kW 0.25 - ive mode' 4 W 4 W 10 W	heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer	Tol EERcyc COPcyc Cdh Qce Qhe Qhe	- - - 0.25	kWh/a kWh/a kWh/a
heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of ff mode standby mode thermostat-off mode crankcase heater mode	Tbiv Pcycc Pcych Cdc Other than 'act Poff Psb Pto(cooling) Pto(heating) Pck	- C kW - kW - W w w w w w w w w w w w w w w w w w	heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder	Tol EERcyc COPcyc Cdh Qce Qhe Qhe	- - - 0.25	- - - kWh/a kWh/a kWh/a
heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode	Tbiv Pcycc Pcych Cdc Other than 'act Poff Psb Pto(cooling) Pto(heating) Pck	- C kW - kW - W w w w w w w w w w w w w w w w w w	heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder Other items	Cdh Qce Qhe Qhe Qhe	0.25 0.25	kWh/a kWh/a kWh/a kWh/a
heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of ff mode standby mode thermostat-off mode crankcase heater mode	Tbiv Pcycc Pcych Cdc Other than 'act Poff Psb Pto(cooling) Pto(heating) Pck	- C kW - kW - W w w w w w w w w w w w w w w w w w	heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder Other items Sound power level(indoor)	Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Qhe Lwa		kWh/a kWh/a kWh/a kWh/a
heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of three	Peycc Peych Cdc Other than 'act Poff Psb Pto(cooling) Pto (heating) Pck options)	- C kW - kW - W w w w w w w w w w w w w w w w w w	heating / Colder	EERcyc COPcyc Cdh Qce Qhe Qhe Qhe		kWh/a kWh/a kWh/a kWh/a dB(A)
heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of three	Tbiv Pcycc Pcych Cdc Other than 'act Poff Psb Pto(cooling) Pck options)	- C kW - kW - W w w w w w w w w w w w w w w w w w	heating / Colder	Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Qhe Lwa		kWh/a kWh/a kWh/a kWh/a kWh/a dB(A) dB(A)
heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of three	Peycc Peych Cdc Other than 'act Poff Psb Pto(cooling) Pto (heating) Pck options)	- C kW - kW - W w w w w w w w w w w w w w w w w w	Cycling interval efficiency for cooling for heating	EERcyc COPcyc Cdh Qce Qhe Qhe Qhe		kWh/a kWh/a kWh/a kWh/a kWh/a dB(A) dB(A) kgCO2ec m3/h
heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of three	Tbiv Pcycc Pcych Cdc Other than 'act Poff Psb Pto(cooling) Pck options)	- C kW - kW - W w w w w w w w w w w w w w w w w w	heating / Colder	EERcyc COPcyc Cdh Qce Qhe Qhe Qhe		kWh/a kWh/a kWh/a kWh/a kWh/a dB(A) dB(A)
heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of mode standby mode thermostat-off mode Crankcase heater mode Capacity control(indicate one of three fixed staged	Tbiv Pcycc Pcych Cdc Other than 'act Poff Psb Pto(cooling) Pto(heating) Pck options)	- C kW - kW - W w w w w w w w w w w w w w w w w w	Cycling interval efficiency for cooling for heating	EERcyc COPcyc Cdh Qce Qhe Qhe Qhe		kWh/a kWh/a kWh/a kWh/a kWh/a dB(A) dB(A) kgCO2ec m3/h
heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of mode standby mode thermostat-off mode Crankcase heater mode Capacity control(indicate one of three fixed staged	Tbiv Pcycc Pcych Cdc Other than 'act Poff Psb Pto(cooling) Pto(heating) Pck Options) No No Yes	- °C - kW - kW 0.25 - ive mode' 4 W 10 W 11 W 0 W	Cycling interval efficiency for cooling for heating	Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Che Che Che Che Che Che Che Che Che C		kWh/a kWh/a kWh/a kWh/a kWh/a dB(A) dB(A) kgCO2ec m3/h
heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of the standby mode standby mode thermostat-off mode Capacity control(indicate one of three fixed staged variable Contact details for obtaining	Tbiv Pcycc Pcych Cdc Other than 'act Poff Psb Pto(cooling) Pck Options) No No Yes Name and	- °C - kW - kW 0.25 - ive mode' 4 W 4 W 10 W 11 W 0 W	Cycling interval efficiency for cooling for heating	Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Che Che Che Che Che Che Che Che Che C		kWh/a kWh/a kWh/a kWh/a kWh/a dB(A) dB(A) kgCO2ec m3/h
neating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of the mode standby mode thermostat-off mode Crankcase heater mode Capacity control(indicate one of three staged variable Contact details for obtaining more information Mitsub 5 The	Tbiv Pcycc Pcych Cdc Other than 'act Poff Psb Pto(cooling) Pto(heating) Pck options) No No Yes Name and Square, Stock	- C - kW kW - NW - N	Cycling interval efficiency for cooling for heating	Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Che Che Che Che Che Che Che Che Che C		kWh/a kWh/a kWh/a kWh/a kWh/a dB(A) dB(A) kgCO2ed m3/h
neating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of the mode standby mode hermostat-off mode Crankcase heater mode Capacity control(indicate one of three staged variable Contact details for obtaining more information Mitsub 5 The	Tbiv Pcycc Pcych Cdc Other than 'act Poff Psb Pto(cooling) Pck options) No No Yes Name and ishi Heavy Inc	- C - kW kW - NW - N	Cycling interval efficiency for cooling for heating	Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Che Che Che Che Che Che Che Che Che C		kWh/a kWh/a kWh/a kWh/a kWh/a dB(A) dB(A) kgCO2e m3/h

SRK35ZS-WB

Information to identify the model(s) to v Indoor unit model name							
			ates to:	If function includes heating: Indicate			
	SRK35ZS			information relates to. Indicated value			
Outdoor unit model name	SRC35ZS	S-W		heating season at a time. Include at	east the heatir	ng seasor	'Average
Function(indicate if present)				Average(mandatory)	Yes		
cooling	Yes			Warmer(if designated)	Yes		
heating	Yes			Colder(if designated)	No		
Item	symbol	value i	unit	Item	symbol	value	class
Design load	Delevier	0.50		Seasonal efficiency and energy effici		0.40	I A
cooling	Pdesignc		kW	cooling	SEER	8.40	A++
heating / Average	Pdesignh		kW	heating / Average	SCOP/A	4.70	A++
heating / Warmer	Pdesignh	$\overline{}$	kW	heating / Warmer	SCOP/W	6.00	A+++
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C	-	-
							unit
Declared capacity at outdoor temperate				Back up heating capacity at outdoor		designh	_
heating / Average (-10°C)	Pdh		kW	heating / Average (-10°C)	elbu	-	kW
heating / Warmer (2°C)	Pdh		kW	heating / Warmer (2°C)	elbu	-	kW
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	-	kW
Declared capacity for cooling, at indoor	r temperature	e 27(19)℃ a	and	Declared energy efficiency ratio, at ir	idoor temperat	ture 27(19)°C and
outdoor temperature Tj				outdoor temperature Tj			_
Tj=35°C	Pdc		kW	Tj=35°C	EERd	3.82	_ -
Tj=30°C	Pdc		kW	Tj=30°C	EERd	5.82	_ -
Tj=25°C	Pdc		kW	Tj=25°C	EERd	11.20	_ -
Tj=20°C	Pdc	1.07	kW	Tj=20°C	EERd	18.50	
Declared capacity for heating / Average		indoor		Declared coefficient of performance		son, at ind	loor
temperature 20°C and outdoor tempera				temperature 20°C and outdoor temperature			_
Tj=-7°C	Pdh		kW	Tj=-7°C	COPd	2.50	
Tj=2°C	Pdh	1.62	kW	Tj=2°C	COPd	4.92	-
Tj=7°C	Pdh		kW	Tj=7°C	COPd	6.10	7-
Tj=12°C	Pdh	1.16	kW	Tj=12°C	COPd	7.86	7-
Tj=bivalent temperature	Pdh	3.00	kW	Tj=bivalent temperature	COPd	2.40	7-
Tj=operating limit	Pdh	2.52	kW	Tj=operating limit	COPd	2.10	٦_
<u> </u>				, .,			
Declared capacity for heating / Warme	r season, at	indoor		Declared coefficient of performance	Warmer seas	on, at ind	oor
temperature 20°C and outdoor tempera				temperature 20°C and outdoor temperature		,	
Tj=2°C	Pdh	3.70	kW	Tj=2°C	COPd	2.80	٦-
Tj=7°C	Pdh		kW	Tj=7°C	COPd	5.20	− _
Tj=12°C	Pdh		kW	Tj=12°C	COPd	7.86	┪_
Tj=bivalent temperature	Pdh		kW	Tj=bivalent temperature	COPd	2.80	1
Tj=operating limit	Pdh		kW	Tj=operating limit	COPd	2.10	-[
Declared capacity for heating / Colder		idoor		Declared coefficient of performance		n, at indo	or
temperature 20°C and outdoor tempera				temperature 20°C and outdoor temperature			_
Tj=-7°C	Pdh		kW	Tj=-7°C	COPd	-	
Tj=2°C	Pdh		kW	Tj=2°C	COPd	-	
Tj=7°C	Pdh		kW	Tj=7°C	COPd	-	_
Tj=12°C	Pdh		kW	Tj=12°C	COPd	-	_
Tj=bivalent temperature	Pdh	- 1	kW	Tj=bivalent temperature	COPd	-	-
	Pdh	- 1	kW	Tj=operating limit	COPd	-	7-
Tj=operating limit		- 1	kW	Tj=-15°C	COPd		7-
	Pdh	, - ı		1]13 0	COPu		
Tj=operating limit Tj=-15°C	Pdh	[COPu		
Tj=-15°C Bivalent temperature	-		20	Operating limit temperature			700
Tj=-15°C Bivalent temperature heating / Average	Tbiv	-10 °	°C	Operating limit temperature heating / Average	Tol	-15]°C
Tj=-15°C Bivalent temperature heating / Average heating / Warmer	Tbiv Tbiv	-10	°C	Operating limit temperature heating / Average heating / Warmer	Tol Tol	-15 -15	°C
Tj=-15°C Bivalent temperature	Tbiv	-10		Operating limit temperature heating / Average	Tol		
Tj=-15°C Bivalent temperature heating / Average heating / Warmer heating / Colder	Tbiv Tbiv	-10	°C	Operating limit temperature heating / Average heating / Warmer heating / Colder	Tol Tol		°C
Tj=-15°C Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity	Tbiv Tbiv Tbiv	-10	C C	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency	Tol Tol Tol		°C
Tj=-15°C Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling	Tbiv Tbiv Tbiv	-10 2 -	°C °C kW	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling	Tol Tol Tol EERcyc	-15 -	°C
Tj=-15°C Bivalent temperature heating / Average heating / Warmer heating / Colder	Tbiv Tbiv Tbiv	-10 2 -	C C	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency	Tol Tol Tol		°C
Tj=-15°C Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating	Tbiv Tbiv Tbiv	-10 2 -	°C °C kW	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating	Tol Tol Tol EERcyc	-15 -	°C
Tj=-15°C Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient	Tbiv Tbiv Tbiv Pcycc Pcych	-10 2	°C °C kW	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient	Tol Tol Tol EERcyc COPcyc	-15 -	°C
Tj=-15°C Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling	Tbiv Tbiv Tbiv	-10 2 -	°C °C kW	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating	Tol Tol Tol EERcyc	-15 -	°C
Tj=-15°C Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling	Tbiv Tbiv Tbiv Pcycc Pcych	-10 2 -	°C °C kW	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating	Tol Tol Tol EERcyc COPcyc	-15 -	°C
Tj=-15°C Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of	Tbiv Tbiv Tbiv Pcycc Pcych Cdc	-10 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	°C °C kW kW	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption	Tol Tol Tol EERcyc COPcyc	-15 - - - - 0.25	
Tj=-15°C Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode	Tbiv Tbiv Tbiv Pcycc Pcych Cdc ther than 'act	-10 2 - -	°C °C kW kW	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling	Tol Tol Tol EERcyc COPcyc	-15 -	°C
Tj=-15°C Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode	Tbiv Tbiv Tbiv Pcycc Pcych Cdc ther than 'act Poff Psb	-10 2 - - - 0.25 - tive mode'	°C °C kW kW	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average	Tol Tol Tol EERcyc COPcyc	-15 - - - - 0.25	- - - - - - - - - - - - - - - - - - -
Tj=-15°C Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode	Tbiv Tbiv Tbiv Pcycc Pcych Cdc ther than 'act Poff Psb Pto(cooling)	-10 2	PC PC kW kW W W	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling	Tol Tol Tol EERcyc COPcyc	-15 - - - - 0.25	c c c
Tj=-15°C Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode	Tbiv Tbiv Tbiv Pcycc Pcych Cdc ther than 'act Poff Psb Pto(cooling) Pto(heating)	-10 2	PC PC RW RW WW WW WW	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer	Tol Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe	-15 - - - - 0.25 - - - - - - - - - - - - - - - - - - -	c c c kWh/a kWh/a kWh/a
Tj=-15°C Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode	Tbiv Tbiv Tbiv Pcycc Pcych Cdc ther than 'act Poff Psb Pto(cooling)	-10 2	PC PC kW kW W W	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer	Tol Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe	-15 - - - - 0.25 - - - - - - - - - - - - - - - - - - -	c c c kWh/a kWh/a kWh/a
Tj=-15°C Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode crankcase heater mode	Tbiv Tbiv Tbiv Pcycc Pcych Cdc ther than 'act Poff Psb Pto(cooling) Pto(heating) Pck	-10 2	PC PC RW RW WW WW WW	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder	Tol Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe	-15 - - - - 0.25 - - - - - - - - - - - - - - - - - - -	c c c kWh/a kWh/a kWh/a
Tj=-15°C Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode crankcase heater mode	Tbiv Tbiv Tbiv Pcycc Pcych Cdc ther than 'act Poff Psb Pto(cooling) Pto(heating) Pck	-10 2	PC PC RW RW WW WW WW	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder Other items	Tol Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Qhe	-15 - - - - - - - - - - - - - - - - - -	c c c
Tj=-15°C Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode crankcase heater mode	Tbiv Tbiv Tbiv Pcycc Pcych Cdc ther than 'act Poff Psb Pto(cooling) Pto(heating) Pck	-10 2	PC PC RW RW WW WW WW	Operating limit temperature heating / Average heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder Other items Sound power level(indoor)	Tol Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Qhe	-15 - - - - 0.25 146 895 863 -	c c c
Tj=-15°C Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of three of	Tbiv Tbiv Tbiv Tbiv Pcycc Pcych Cdc ther than 'act Poff Psb Pto(cooling) Pto(heating) Pck options)	-10 2	PC PC RW RW WW WW WW	Operating limit temperature heating / Average heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / Colder Other items Sound power level(indoor) Sound power level(outdoor)	Tol Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Lwa Lwa	-15 0.25 146 895 863 	c c c - - - - - - - - - - - - - - - - -
Tj=-15°C Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode Crankcase heater mode Capacity control(indicate one of three of this capacity control)	Tbiv Tbiv Tbiv Pcycc Pcych Cdc ther than 'act Poff Psb Pto(cooling) Pto(heating) Pck options)	-10 2	PC PC RW RW WW WW WW	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential	Tol Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Qhe	-15 0.25 146 895 863 54 61 675	°C °
Tj=-15°C Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode Capacity control(indicate one of three of fixed staged	Tbiv Tbiv Tbiv Tbiv Pcycc Pcych Cdc ther than 'act Poff Psb Pto(cooling) Pto(heating) Pck pptions)	-10 2	PC PC RW RW WW WW WW	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor)	Tol Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Lwa Lwa	-15 - - - - - - - - - - - - - - - - - -	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Tj=-15°C Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode Crankcase heater mode Capacity control(indicate one of three of this capacity control)	Tbiv Tbiv Tbiv Pcycc Pcych Cdc ther than 'act Poff Psb Pto(cooling) Pto(heating) Pck options)	-10 2	PC PC RW RW WW WW WW	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential	Tol Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Lwa Lwa	-15 0.25 146 895 863 54 61 675	°C °
Tj=-15°C Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of three of staged variable	Tbiv Tbiv Tbiv Tbiv Pcycc Pcych Cdc ther than 'act Poff Psb Pto(cooling) Pto(heating) Pck options) No No Yes	-10 2	PC PC kW kW - - W W W W	Operating limit temperature heating / Average heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Average heating / Warmer heating / Colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor)	Tol Tol Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Qhe Che Che Che Che Che Che Che Che Che C	-15 - - - - - - - - - - - - - - - - - -	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Tj=-15°C Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode Capacity control(indicate one of three of the staged variable Contact details for obtaining	Tbiv Tbiv Tbiv Tbiv Pcycc Pcych Cdc ther than 'act Poff Psb Pto(cooling) Pto(heating) Pck Poptions)	-10 2	CCCKWWkWWWWWWWWW	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Average heating / Colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor)	Tol Tol Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Qhe Che Che Che Che Che Che Che Che Che C	-15 - - - - - - - - - - - - - - - - - -	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Tj=-15°C Bivalent temperature neating / Average neating / Warmer neating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode Crankcase heater mode Capacity control(indicate one of three of staged variable Contact details for obtaining more information Mitsubis	Tbiv Tbiv Tbiv Tbiv Tbiv Pcycc Pcych Cdc ther than 'act Poff Psb Pto(cooling) Pto(heating) Pck Options) No No Yes Name and shi Heavy Ind	-10 -2 - - - - - - - -	CCCCKWWKWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Average heating / Colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor) ufacturer or of its authorised representing Europe, Ltd.	Tol Tol Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Qhe Che Che Che Che Che Che Che Che Che C	-15 - - - - - - - - - - - - - - - - - -	c c c c c c c c c c c c c c c c c c c
Givalent temperature neating / Average neating / Warmer neating / Colder Cycling interval capacity or heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode hermostat-off mode crankcase heater mode Capacity control(indicate one of three of staged variable Contact details for obtaining more information Mitsubis 5 The S	Tbiv Tbiv Tbiv Tbiv Tbiv Pcycc Pcych Cdc ther than 'act Poff Psb Pto(cooling) Pto(heating) Pck Options) No No Yes Name and shi Heavy Ind	-10 -2 - - - - - - - -	CCCCKWWKWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Average heating / Colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor)	Tol Tol Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Qhe Che Che Che Che Che Che Che Che Che C	-15 - - - - - - - - - - - - - - - - - -	°C °

SRK50ZS-WB

Pdesignc Pdesignh Pdesignh Pdesignh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh	value 5.00 3.80 4.60 - 3.80	unit kW kW kW kW	If function includes heating: Indicate information relates to. Indicated valid heating season at a time. Include at Average(mandatory) Warmer(if designated) Colder(if designated) Item Seasonal efficiency and energy efficiency efficiency and energy efficiency e	ves should relatit least the heatin Yes Yes No symbol ciency class SEER SCOP/A SCOP/W SCOP/C	value 7.00 4.60 5.70 - designh -	class A++ A++ A++ - unit
Yes Yes symbol Pdesignc Pdesignh Pdesignh Pdesignh Pdh Pdh Pdh Pdh Pdh Pdh Pdc Pdc Pdc Pdc Pdc Pdc Pdc	value 5.00 3.80 4.60 - 3.80 4.60 - 5.00 5.00	kW kW kW kW kW	heating season at a time. Include at Average(mandatory) Warmer(if designated) Colder(if designated) Item Seasonal efficiency and energy efficiently energy	Yes Yes No symbol ciency class SEER SCOP/A SCOP/W SCOP/C r temperature To	value 7.00 4.60 5.70 - designh -	class A++ A++ A++ - unit
Yes Yes symbol Pdesignc Pdesignh Pdesignh Pdesignh Pdh Pdh Pdh Pdh Pdh Pdc Pdc Pdc Pdc Pdc Pdc Pdc	value 5.00 3.80 4.60 - 3.80 4.60 - 27(19)°C 5.00	kW kW kW kW kW	Average (mandatory) Warmer(if designated) Colder(if designated) Item Seasonal efficiency and energy efficiency energy efficiency energy efficiency energy efficiency efficiency energy energy efficiency energy efficiency energy efficiency energy efficiency energy energy efficiency energy efficiency energy	Yes Yes No symbol ciency class SEER SCOP/A SCOP/W SCOP/C r temperature To	value 7.00 4.60 5.70 - designh	class A++ A++ A++ - unit
yes symbol Pdesignc Pdesignh Pdesignh Pdesignh Pdh Pdh Pdh Pdh Pdh Pdc Pdc Pdc Pdc Pdc Pdc Pdc	5.00 3.80 4.60 - 3.80 4.60 - = 27(19)°C	kW kW kW kW kW	Warmer(if designated) Colder(if designated) Item Seasonal efficiency and energy effications and energy effications are seasonal efficiency and energy effications are seasonal efficiency and energy effications are seasonal efficiency and energy effications are seasonal energy efficiency heating / Colder Back up heating capacity at outdoor heating / Average (-10°C) heating / Warmer (2°C) heating / Colder (-22°C)	yes No symbol ciency class SEER SCOP/A SCOP/W SCOP/C r temperature To	7.00 4.60 5.70 -	A++ A++ A+++ - unit
yes symbol Pdesignc Pdesignh Pdesignh Pdesignh Pdh Pdh Pdh Pdh Pdh Pdc Pdc Pdc Pdc Pdc Pdc Pdc	5.00 3.80 4.60 - 3.80 4.60 - = 27(19)°C	kW kW kW kW kW	Warmer(if designated) Colder(if designated) Item Seasonal efficiency and energy effications and energy effications are seasonal efficiency and energy effications are seasonal efficiency and energy effications are seasonal efficiency and energy effications are seasonal energy efficiency heating / Colder Back up heating capacity at outdoor heating / Average (-10°C) heating / Warmer (2°C) heating / Colder (-22°C)	yes No symbol ciency class SEER SCOP/A SCOP/W SCOP/C r temperature To	7.00 4.60 5.70 -	A++ A++ A+++ - unit
yes symbol Pdesignc Pdesignh Pdesignh Pdesignh Pdh Pdh Pdh Pdh Pdh Pdc Pdc Pdc Pdc Pdc Pdc Pdc	5.00 3.80 4.60 - 3.80 4.60 - = 27(19)°C	kW kW kW kW kW	Item Seasonal efficiency and energy efficiency are seasonal efficiency and energy efficiency heating / Average heating / Colder Back up heating capacity at outdoor heating / Average (-10°C) heating / Warmer (2°C) heating / Colder (-22°C)	symbol ciency class SEER SCOP/A SCOP/W SCOP/C r temperature To	7.00 4.60 5.70 -	A++ A++ A+++ - unit
symbol Pdesignc Pdesignh Pdesignh Pdesignh Pdh Pdh Pdh Pdh Pdh Pdc Pdc Pdc Pdc Pdc Pdc	5.00 3.80 4.60 - 3.80 4.60 - = 27(19)°C	kW kW kW kW kW	Item Seasonal efficiency and energy efficiency and energy efficiency and energy efficiency and energy efficiency are seasonal efficiency and energy efficiency heating / Average (and energy efficiency) Heating / Warmer (2°C) Heating / Colder (-22°C)	symbol ciency class SEER SCOP/A SCOP/W SCOP/C r temperature To elbu elbu	7.00 4.60 5.70 -	A++ A++ A+++ - unit
Pdesignc Pdesignh Pdesignh Pdesignh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh	5.00 3.80 4.60 - 3.80 4.60 - = 27(19)°C	kW kW kW kW kW	Seasonal efficiency and energy efficiency heating / Colder Seasonal efficiency and energy efficiency heating / Colder (-10°C) heating / Warmer (2°C) heating / Colder (-22°C)	ciency class SEER SCOP/A SCOP/W SCOP/C r temperature Toelbu elbu	7.00 4.60 5.70 -	A++ A++ A+++ - unit
Pdesignc Pdesignh Pdesignh Pdesignh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh	5.00 3.80 4.60 - 3.80 4.60 - = 27(19)°C	kW kW kW kW kW	Seasonal efficiency and energy efficiency heating / Colder Seasonal efficiency and energy efficiency heating / Colder (-10°C) heating / Warmer (2°C) heating / Colder (-22°C)	ciency class SEER SCOP/A SCOP/W SCOP/C r temperature Toelbu elbu	7.00 4.60 5.70 -	A++ A++ A+++ - unit
Pdesignh Pdesignh Pdesignh Pdh Pdh Pdh Pdh Pdh Pdh Pdc Pdc Pdc Pdc Pdc	3.80 4.60 - 3.80 4.60 - 27(19)°C	kW kW kW kW kW kW	cooling heating / Average heating / Warmer heating / Colder Back up heating capacity at outdoor heating / Average (-10°C) heating / Warmer (2°C) heating / Colder (-22°C)	SEER SCOP/A SCOP/W SCOP/C r temperature To elbu elbu	4.60 5.70 - designh	A++ A+++ - unit
Pdesignh Pdesignh Pdesignh Pdh Pdh Pdh Pdh Pdh Pdh Pdc Pdc Pdc Pdc Pdc	4.60 - 3.80 4.60 - 27(19)°C	kW kW kW kW kW	heating / Warmer heating / Colder Back up heating capacity at outdoor heating / Average (-10°C) heating / Warmer (2°C) heating / Colder (-22°C)	SCOP/W SCOP/C r temperature To elbu elbu	5.70 - designh	A+++ - unit
Pdesignh ure Tdesignh Pdh Pdh Pdh temperature Pdc	3.80 4.60 - = 27(19)°C	kW kW kW kW	heating / Colder Back up heating capacity at outdoor heating / Average (-10°C) heating / Warmer (2°C) heating / Colder (-22°C)	scop/c r temperature To elbu elbu	designh	unit
re Tdesignh Pdh Pdh Pdh remperature Pdc	3.80 4.60 - = 27(19)°C	kW kW kW	Back up heating capacity at outdoor heating / Average (-10°C) heating / Warmer (2°C) heating / Colder (-22°C)	r temperature To elbu elbu	-	
Pdh Pdh Pdh 	3.80 4.60 - = 27(19)°C 5.00	kW kW	heating / Average (-10°C) heating / Warmer (2°C) heating / Colder (-22°C)	elbu elbu	-	
Pdh Pdh Pdh 	3.80 4.60 - = 27(19)°C 5.00	kW kW	heating / Average (-10°C) heating / Warmer (2°C) heating / Colder (-22°C)	elbu elbu	-	7
Pdh Pdh temperature Pdc Pdc Pdc Pdc Pdc Pdc	4.60 - e 27(19)°C 5.00	kW kW	heating / Warmer (2°C) heating / Colder (-22°C)	elbu	-	
Pdh temperature Pdc Pdc Pdc Pdc Pdc Pdc Pdc	- e 27(19)°C 5.00	kW	heating / Colder (-22°C)			kW
Pdc Pdc Pdc Pdc Pdc Pdc	= 27(19)°C 5.00			elbu	-	kW
Pdc Pdc Pdc Pdc	5.00	and	1		-	kW
Pdc Pdc Pdc Pdc	5.00	and				
Pdc Pdc Pdc			Declared energy efficiency ratio, at	indoor temperat	ure 27(19	ı)℃ and
Pdc Pdc Pdc		1.347	outdoor temperature Tj	EED4	0.70	7
Pdc Pdc	3.65	kW	Tj=35°C	EERd	3.70	- ⁻
Pdc	2 27	kW	Tj=30°C	EERd	5.40	- ⁻
	2.37 1.90	kW kW	Tj=25°C Tj=20°C	EERd	8.30 13.00	- ⁻
a accordant of	1.90	KVV	[1]=20 C	EERd	13.00	
	indoor		Declared coefficient of performance	A / Average see	on at ind	loor
e season, at ature Tj	1110001		temperature 20°C and outdoor temp		ion, at mu	JUI
Pdh	3.35	kW	Ti=-7°C	COPd	2.80	٦-
Pdh	2.00	kW	Tj=2°C	COPd	4.60	−
Pdh	1.30	kW		COPd	6.02	−
Pdh	1.50	kW	Ti=12°C	COPd	7.41	1 ₋
Pdh	3.80	kW	Tj=bivalent temperature	COPd	2.50	7-
Pdh	3.20	kW	1 1 2	COPd	2.30	7-
-		ļ	<u> </u>			
r season, at	indoor		Declared coefficient of performance	/ Warmer seas	on, at ind	oor
ature Tj		_	temperature 20°C and outdoor temp	perature Tj		_
Pdh	4.60	kW	Tj=2°C	COPd	2.80]-
Pdh		kW		COPd		
Pdh	1.50	kW	117	COPd]-
Pdh		kW	Tj=bivalent temperature	COPd]-
Pdh	3.20	kW	Tj=operating limit	COPd	2.30	-
			1 15			
	door				n, at indoo	or
		1				7
						- -
						- ⁻
		4			-	- ⁻
		4	117			- -
		4				- ⁻
			, , ,		<u> </u>	4
Full	_	LVV	[1]=-15 C	COFU	<u> </u>	
			Operating limit temperature			
Thiv	-10]°c		Tol	-15	°C
						-©
					-	-©
	l		induing / deladi			1-
			Cycling interval efficiency			
Pcycc	-	kW	for cooling	EERcyc	-	7-
Pcych	-	kW	for heating	COPcyc	-	1
			Degradation coefficient			_
Cdc	0.25	-	heating	Cdh	0.25	<u> -</u>
			I Annual alastic s			
	ive mode'	-	11 ,	0	050	71.000-7
Poff	4	W				kWh/a
	4					kWh/a
						kWh/a kWh/a
			meaning / colder	QIIB		LVVII/d
FUK	U	ΙVV	1			
ntions)			Other items			
γμισιίο)				l wa	59	dB(A)
						dB(A)
No			Global warming potential	GWP	675	kgCO2ed
No			Rated air flow(indoor)	-	726	m3/h
Yes			Rated air flow(inddoir)	-	1968	m3/h
1						
	d address					
Name and		of the man	ufacturer or of its authorised represen	ntative.		
	dustries Ai		ufacturer or of its authorised represen ning Europe, Ltd.	ntative.		
shi Heavy Ind quare, Stock		r-Condition		ntative.		
shi Heavy Inc		r-Condition	ning Europe, Ltd.	ntative.		
	r season, at ature Tj Pdh Pdh Pdh Pdh Pdh Pdh Season, at in ature Tj Pdh	r season, at indoor ature Tj Pdh	r season, at indoor ature Tj Pdh	r season, at indoor ature Tj Pdh	Declared coefficient of performance / Warmer seas temperature 7j Pdh	reseason, at indoor ature Tj Pdh

SRK20ZS-WT

SRK20ZS-WT			
Information to identify the model(s)	to which the information relates to:	If function includes heating: Indicate	e the heating season the
Indoor unit model name	SRK20ZS-WT	information relates to. Indicated val	
Outdoor unit model name	SRC20ZS-W	heating season at a time. Include a	it least the heating season 'Average'.
Cupation/indicate if present		A. (araga (mandatan)	Vac
Function(indicate if present) cooling	Yes	Average(mandatory) Warmer(if designated)	Yes Yes
heating	Yes	Colder(if designated)	No
neating	163	Colder(ii designated)	NO
Item	symbol value unit	Item	symbol value class
Design load		Seasonal efficiency and energy efficiency	ciency class
cooling	Pdesignc 2.00 kW	cooling	SEER 8.50 A+++
heating / Average	Pdesignh 2.60 kW	heating / Average	SCOP/A 4.60 A++
heating / Warmer	Pdesignh 3.30 kW	heating / Warmer	SCOP/W 5.80 A+++
heating / Colder	Pdesignh - kW	heating / Colder	SCOP/C
Declared capacity at outdoor temper	erature Tdesignh	Back up heating capacity at outdoo	unit or temperature Tdesignh
heating / Average (-10°C)	Pdh 2.60 kW	heating / Average (-10°C)	elbu - kW
heating / Warmer (2°C)	Pdh 3.30 kW	heating / Warmer (2°C)	elbu - kW
heating / Colder (-22°C)	Pdh - kW	heating / Colder (-22°C)	elbu - kW
	•		•
Declared capacity for cooling, at in-	door temperature 27(19)°C and	Declared energy efficiency ratio, at	indoor temperature 27(19)°C and
outdoor temperature Tj		outdoor temperature Tj	
Tj=35°C	Pdc 2.00 kW	Tj=35°C	EERd 4.55 -
Tj=30°C	Pdc 1.40 kW	Tj=30°C	EERd 6.80 -
Tj=25°C	Pdc 1.00 kW	Tj=25°C	EERd 11.80 -
Tj=20°C	Pdc 1.00 kW	Tj=20°C	EERd 18.20 -
Declared capacity for heating / Ave	erage season, at indoor	Declared coefficient of performance	e / Average season, at indoor
temperature 20°C and outdoor tem		temperature 20°C and outdoor temperature	
Tj=-7°C	Pdh 2.40 kW	Tj=-7°C	COPd 2.50 -
Tj=2°C	Pdh 1.40 kW	Tj=2°C	COPd 4.70 -
rj=7°C	Pdh 0.95 kW	Tj=7°C	COPd 6.24 -
Tj=12℃	Pdh 1.10 kW	Tj=12°C	COPd 7.80 -
Tj=bivalent temperature	Pdh 2.60 kW	Tj=bivalent temperature	COPd 2.20 -
Tj=operating limit	Pdh 2.10 kW	Tj=operating limit	COPd 2.05 -
	•		•
Declared capacity for heating / Wa		Declared coefficient of performance	
temperature 20°C and outdoor tem		temperature 20°C and outdoor temp	
Tj=2°C	Pdh 3.30 kW	Tj=2°C	COPd 2.57 -
Tj=7°C	Pdh 2.10 kW	Tj=7°C	COPd 5.12 -
Tj=12°C	Pdh 1.10 kW	Tj=12°C	COPd 7.80 -
Tj=bivalent temperature	Pdh 3.30 kW	Tj=bivalent temperature	COPd 2.57 -
Tj=operating limit	Pdh 2.10 kW	Tj=operating limit	COPd 2.05 -
Declared capacity for heating / Col-	der season, at indoor	Declared coefficient of performance	e / Colder season, at indoor
temperature 20°C and outdoor tem		temperature 20°C and outdoor temperature	
Tj=-7°C	Pdh - kW	Tj=-7°C	COPd
Tj=2°C	Pdh - kW	Tj=2°C	COPd
Tj=7°C	Pdh - kW	Tj=7°C	COPd
Tj=12°C	Pdh - kW	Tj=12°C	COPd
Tj=bivalent temperature	Pdh - kW	Tj=bivalent temperature	COPd
Tj=operating limit	Pdh - kW	Tj=operating limit	COPd
Tj=-15℃	Pdh - kW	Tj=-15°C	COPd
		1	
Bivalent temperature	This 40 °C	Operating limit temperature	Tol 45 °C
heating / Average	Tbiv -10 °C Tbiv 2 °C	heating / Average heating / Warmer	Tol
heating / Warmer heating / Colder	——————————————————————————————————————	heating / Vvarmer	Tol
neating / Coldel	Tbiv - °C	Ineating / Colder	101 -
Cycling interval capacity		Cycling interval efficiency	
for cooling	Pcycc - kW	for cooling	EERcyc
for heating	Pcych - kW	for heating	COPcyc
3			
Degradation coefficient		Degradation coefficient	
cooling	Cdc 0.25 -	heating	Cdh 0.25 -
		Appropriate	
Electric power input in power mode		Annual electricity consumption cooling	Qce 83 kWh/a
off mode	Poff 4 W	heating / Average	Qte 83 kwh/a Qhe 793 kWh/a
standby mode	Psb 4 W	heating / Average	Qhe 793 kWh/a
thermostat-off mode	Pto(cooling) 10 W Pto(heating) 11 W	heating / warmer	Qhe - kWh/a
crankcase heater mode	Pck 0 W	incasing / colder	- NVVII/G
S.SOGO HOGO HIOGO	1 310 0	_	
Capacity control(indicate one of thr	ee options)	Other items	
		Sound power level(indoor)	Lwa 48 dB(A)
		Sound power level(outdoor)	Lwa 56 dB(A)
fixed	No	Global warming potential	GWP 675 kgCO2eq.
staged	No	Rated air flow(indoor)	- 558 m3/h
variable	Yes	Rated air flow(outdoor)	- 1644 m3/h
Contact details for obtaining		nufacturer or of its authorised represer	ntative.
	subishi Heavy Industries Air-Condition		
	he Square, Stockley Park, Uxbridge,	iviiadiesex, UB11 1E1,	
Uni	ted Kingdom		

SRK25ZS-WT

SRK25ZS-WT							
Information to identify the model(s) to w	hich the info	rmation re	elates to:	If function includes heating: Indicate th	e heating se	ason the	
Indoor unit model name	SRK25ZS			information relates to. Indicated values			
Outdoor unit model name	SRC25ZS	-W		heating season at a time. Include at lea	ast the heatir	ng season	'Average'.
Function(indicate if present)				Average(mandatory)	Yes		
cooling	Yes			Warmer(if designated)	Yes		
heating	Yes			Colder(if designated)	No		
Item	symbol	value	unit	Item	symbol	value	class
Design load	D	0.50	1	Seasonal efficiency and energy efficier		0.50	1
cooling	Pdesigno	2.50	kW kW	cooling	SEER SCOP/A	8.50 4.70	A+++
heating / Average heating / Warmer	Pdesignh Pdesignh	2.70 3.30	kW	heating / Average heating / Warmer	SCOP/W	5.90	A++ A+++
heating / Colder	Pdesignh	-	kW	heating / Warrier	SCOP/C	3.90	-
ricating / Coldor	1 doolgilli		1000	industry / dolaci	000170		unit
Declared capacity at outdoor temperatu	re Tdesignh			Back up heating capacity at outdoor te	mperature T	designh	
heating / Average (-10°C)	Pdh	2.70	kW	heating / Average (-10°C)	elbu	-	kW
heating / Warmer (2°C)	Pdh	3.30	kW	heating / Warmer (2°C)	elbu	-	kW
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	-	kW
Dealared canceity for earling at indeer	tomporatura	27/10\°C	and	Declared aparay officiancy ratio at ind	oor tompore	turo 27/10	N°C and
Declared capacity for cooling, at indoor outdoor temperature Ti	temperature	27(19)0	anu	Declared energy efficiency ratio, at indicated outdoor temperature Ti	oor tempera	ture 27 (19) C and
Ti=35°C	Pdc	2.50	kW	Ti=35°C	EERd	4.03	7-
Tj=30°C	Pdc	1.80	kW	Tj=30°C	EERd	6.45	-
Tj=25°C	Pdc	1.11	kW	Tj=25°C	EERd	11.80	-
Tj=20°C	Pdc	1.10	kW	Tj=20°C	EERd	18.20	<u></u>
				1 -			
Declared capacity for heating / Average		indoor		Declared coefficient of performance / A		son, at ind	oor
temperature 20°C and outdoor tempera Tj=-7°C	ure Tj Pdh	2.40	lkW	temperature 20°C and outdoor tempera	ature Tj COPd	2.50	٦
Tj=-7 C Tj=2°C	Pan Pdh	1.40	kW		COPd	4.92	-[
Ti=7°C	Pdh	0.95	kW		COPd	6.15	1_
Tj=12°C	Pdh	1.10	kW	Ti=12°C	COPd	7.86	- -
Tj=bivalent temperature	Pdh	2.70	kW	Tj=bivalent temperature	COPd	2.40	-
Tj=operating limit	Pdh	2.30	kW	Tj=operating limit	COPd	2.10	-
,				1			
Declared capacity for heating / Warmer		indoor		Declared coefficient of performance / V		on, at ind	oor
temperature 20°C and outdoor tempera		0.00	1	temperature 20°C and outdoor tempera		0.00	7
Tj=2°C	Pdh		kW	Tj=2°C	COPd	2.70	_ -
Tj=7°C	Pdh	2.10	kW	Tj=7°C	COPd	5.23	
Tj=12°C	Pdh	1.10	kW	Tj=12°C	COPd	7.86	
Tj=bivalent temperature Tj=operating limit	Pdh Pdh	3.30 2.10	kW kW	Tj=bivalent temperature Tj=operating limit	COPd COPd	2.70	-
Tj-operating iiriit	Full	2.10	KVV	Tj-operating limit	COFU	2.10	F
Declared capacity for heating / Colder s	eason, at in	door		Declared coefficient of performance / 0	Colder seaso	n, at indo	or
temperature 20°C and outdoor tempera				temperature 20°C and outdoor tempera		•	
Tj=-7°C	Pdh	-	kW	Tj=-7°C	COPd	-	-
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	_
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	-
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	-
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-
Tj=-15°C	Pdh	-	kW	Tj=-15°C	COPd	-	-
Bivalent temperature				Operating limit temperature			
heating / Average	Tbiv	-10	°C	heating / Average	Tol	-15	°C
heating / Warmer	Tbiv	2	°C	heating / Warmer	Tol	-15	°C
heating / Colder	Tbiv	-	°C	heating / Colder	Tol	-	°C
Cycling interval capacity			1	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	7-
Ĭ							•
Electric power input in power modes oth	er than 'act	ive mode'		Annual electricity consumption			
off mode	Poff	4	W	cooling	Qce	103	kWh/a
standby mode	Psb	4	W	heating / Average	Qhe	804	kWh/a
thermostat-off mode	Pto(cooling)	10	W	heating / Warmer	Qhe	784	kWh/a
	Pto(heating)	11	W	heating / colder	Qhe	-	kWh/a
crankcase heater mode	Pck	0	W	J			
Capacity control(indicate one of three o	otions)			Other items			
Supusity control(maloute one of three o)			Sound power level(indoor)	Lwa	50	dB(A)
				Sound power level(outdoor)	Lwa	56	dB(A)
fixed	No			Global warming potential	GWP	675	kgCO2eq.
staged	No			Rated air flow(indoor)	-	594	m3/h
variable	Yes			Rated air flow(outdoor)	-	1644	m3/h
	1			, , ,			<u>. </u>
Contact details for obtaining				nufacturer or of its authorised representat	ive.		
				ning Europe, Ltd.			
		iley Park, I	uxbridge,	Middlesex, UB11 1ET,			
United K	ıııguom						

SRK35ZS-WT

SRK35ZS-WT			
Information to identify the model(s)	to which the information relates to	: If function includes heating: Indicate	e the heating season the
Indoor unit model name	SRK35ZS-WT	information relates to. Indicated val	
Outdoor unit model name	SRC35ZS-W	heating season at a time. Include a	at least the heating season 'Average'.
Franking/indiants if annually			V
Function(indicate if present) cooling	Yes	Average(mandatory) Warmer(if designated)	Yes Yes
heating	Yes	Colder(if designated)	No
neating	163	Colder (II designated)	NO
Item	symbol value unit	Item	symbol value class
Design load		Seasonal efficiency and energy effi	
cooling	Pdesignc 3.50 kW	cooling	SEER 8.40 A++
heating / Average	Pdesignh 3.00 kW	heating / Average	SCOP/A 4.70 A++
heating / Warmer	Pdesignh 3.70 kW	heating / Warmer	SCOP/W 6.00 A+++
heating / Colder	Pdesignh - kW	heating / Colder	SCOP/C
Declared capacity at outdoor tempe	erature Tdesignh	Back up heating capacity at outdoo	unit or temperature Tdesignh
heating / Average (-10°C)	Pdh 3.00 kW	heating / Average (-10°C)	elbu - kW
heating / Warmer (2°C)	Pdh 3.70 kW	heating / Warmer (2°C)	elbu - kW
heating / Colder (-22°C)	Pdh - kW	heating / Colder (-22°C)	elbu - kW
			·
Declared capacity for cooling, at ind	door temperature 27(19)°C and	Declared energy efficiency ratio, at	indoor temperature 27(19)°C and
outdoor temperature Tj		outdoor temperature Tj	
Tj=35°C	Pdc 3.50 kW	Tj=35°C	EERd 3.82 -
Tj=30°C	Pdc 2.58 kW	Tj=30°C	EERd 5.82 -
Tj=25°C	Pdc 1.60 kW	Tj=25°C	EERd 11.20 -
Tj=20°C	Pdc 1.07 kW	Tj=20°C	EERd 18.50 -
Declared capacity for heating / Aver	rage season, at indoor	Declared coefficient of performance	e / Average season, at indoor
temperature 20°C and outdoor temp		temperature 20°C and outdoor tem	
Tj=-7°C	Pdh 2.65 kW	Tj=-7°C	COPd 2.50 -
Tj=2°C	Pdh 1.62 kW	Tj=2°C	COPd 4.92 -
Tj=7°C	Pdh 1.04 kW	Tj=7°C	COPd 6.10 -
Tj=12°C	Pdh 1.16 kW	Tj=12°C	COPd 7.86 -
Tj=bivalent temperature	Pdh 3.00 kW	Tj=bivalent temperature	COPd 2.40 -
Tj=operating limit	Pdh 2.52 kW	Tj=operating limit	COPd 2.10 -
Declared capacity for heating / War		Declared coefficient of performance	
temperature 20°C and outdoor temp Tj=2°C	Pdh 3.70 kW	temperature 20°C and outdoor tem	COPd 2.80 -
Tj=7°C	Pdh 2.38 kW	Ti=7°C	COPd 2.30 -
Tj=12°C	Pdh 1.16 kW	Tj=12°C	COPd 7.86 -
Tj=bivalent temperature	Pdh 3.70 kW	Tj=bivalent temperature	COPd 2.80 -
Tj=operating limit	Pdh 2.52 kW	Tj=operating limit	COPd 2.10 -
in operating in the		ij sperating iiint	55. 5 2115
Declared capacity for heating / Cold	der season, at indoor	Declared coefficient of performance	e / Colder season, at indoor
temperature 20°C and outdoor temp		temperature 20°C and outdoor tem	
Tj=-7°C	Pdh - kW	Tj=-7°C	COPd
Tj=2°C	Pdh - kW	Tj=2°C	COPd
Tj=7°C	Pdh - kW	Tj=7°C	COPd
Tj=12°C	Pdh - kW	Tj=12°C	COPd
Tj=bivalent temperature	Pdh - kW	Tj=bivalent temperature	COPd
Tj=operating limit	Pdh - kW	Tj=operating limit	COPd
Tj=-15°C	Pdh - kW	Tj=-15°C	COPd
Bivalent temperature		Operating limit temperature	
heating / Average	Tbiv -10 °C	heating / Average	Tol -15 °C
heating / Warmer	Tbiv 2°C	heating / Warmer	Tol -15 °C
heating / Colder	Tbiv - °C	heating / Colder	Tol - °C
Cycling interval capacity		Cycling interval efficiency	
for cooling	Pcycc - kW	for cooling	EERcyc
for heating	Pcych - kW	for heating	COPcyc
Dogradation coefficient		Degradation coefficient	
Degradation coefficient cooling	Cdc 0.25 -	heating	Cdh 0.25 -
Cooming	0.20	picating	Odii 0.23 -
Electric power input in power mode	es other than 'active mode'	Annual electricity consumption	
off mode	Poff 4 W	cooling	Qce 146 kWh/a
standby mode	Psb 4 W	heating / Average	Qhe 895 kWh/a
thermostat-off mode	Pto(cooling) 10 W	heating / Warmer	Qhe 863 kWh/a
	Pto(heating) 11 W	heating / colder	Qhe - kWh/a
crankcase heater mode	Pck 0 W		
Congoity control/indiast 511	on ontions)	Other items	
Capacity control(indicate one of three	ze options)	Other items Sound power level(indoor)	Lwa 54 dB(A)
		Sound power level(indoor) Sound power level(outdoor)	Lwa 61 dB(A)
fixed	No	Global warming potential	GWP 675 kgCO2eq.
	No	Rated air flow(indoor)	- 678 m3/h
staged variable	Yes	Rated air flow(indoor) Rated air flow(outdoor)	- 6/8 m3/n - 1890 m3/h
variable	169	I valed all How(outdoor)	- 1030 III3/II
Contact details for obtaining	Name and address of the m	anufacturer or of its authorised represer	ntative.
	ubishi Heavy Industries Air-Condit		
	ne Square, Stockley Park, Uxbridge		
	ed Kingdom		
		·	

SRK50ZS-WT

SRK50ZS-WT			
Information to identify the model(s) to	which the information relates	o: If function includes heating: Indicate	e the heating season the
Indoor unit model name	SRK50ZS-WT	information relates to. Indicated val	
Outdoor unit model name	SRC50ZS-W	heating season at a time. Include a	t least the heating season 'Average'.
Franchis (in disease if annual)			V
Function(indicate if present) cooling	Yes	Average(mandatory) Warmer(if designated)	Yes Yes
heating	Yes	Colder(if designated)	No
neating	163	Colder(ii designated)	140
Item	symbol value unit	Item	symbol value class
Design load		Seasonal efficiency and energy efficiency	ciency class
cooling	Pdesignc 5.00 kW	cooling	SEER 7.00 A++
heating / Average	Pdesignh 3.80 kW	heating / Average	SCOP/A 4.60 A++
heating / Warmer	Pdesignh 4.60 kW	heating / Warmer	SCOP/W 5.70 A+++
heating / Colder	Pdesignh - kW	heating / Colder	SCOP/C
Declared capacity at outdoor tempera	ture Tdesianh	Back up heating capacity at outdoor	unit r temperature Tdesignh
heating / Average (-10°C)	Pdh 3.80 kW	heating / Average (-10°C)	elbu - kW
heating / Warmer (2°C)	Pdh 4.60 kW	heating / Warmer (2°C)	elbu - kW
heating / Colder (-22°C)	Pdh - kW	heating / Colder (-22°C)	elbu - kW
			<u> </u>
Declared capacity for cooling, at indoo	or temperature 27(19)°C and	Declared energy efficiency ratio, at	indoor temperature 27(19)°C and
outdoor temperature Tj		outdoor temperature Tj	
Tj=35°C	Pdc 5.00 kW	Tj=35°C	EERd 3.70 -
Tj=30°C	Pdc 3.65 kW	Tj=30°C	EERd 5.40 -
Tj=25°C	Pdc 2.37 kW	Tj=25°C	EERd 8.30 -
Tj=20°C	Pdc 1.90 kW	Tj=20°C	EERd 13.00 -
Declared capacity for heating / Average	ne season, at indoor	Declared coefficient of performance	e / Average season, at indoor
temperature 20°C and outdoor temper		temperature 20°C and outdoor temp	
Tj=-7°C	Pdh 3.35 kW	Tj=-7°C	COPd 2.80 -
Tj=2°C	Pdh 2.00 kW	Tj=2°C	COPd 4.60 -
rj=7°C	Pdh 1.30 kW	Tj=7°C	COPd 6.02 -
Tj=12°C	Pdh 1.50 kW	Tj=12°C	COPd 7.41 -
Tj=bivalent temperature	Pdh 3.80 kW	Tj=bivalent temperature	COPd 2.50 -
Tj=operating limit	Pdh 3.20 kW	Tj=operating limit	COPd 2.30 -
	•		·
Declared capacity for heating / Warm		Declared coefficient of performance	
temperature 20°C and outdoor temper		temperature 20°C and outdoor temp	
Tj=2°C	Pdh 4.60 kW	Tj=2°C	COPd 2.80 -
Tj=7°C	Pdh 2.90 kW	Tj=7°C	COPd 5.38 -
Tj=12°C	Pdh 1.50 kW	Tj=12°C	COPd 7.00 -
Tj=bivalent temperature	Pdh 4.60 kW	Tj=bivalent temperature	COPd 2.80 -
Tj=operating limit	Pdh 3.20 kW	Tj=operating limit	COPd 2.30 -
Declared capacity for heating / Colder	season at indoor	Declared coefficient of performance	/ Colder season, at indoor
temperature 20°C and outdoor temper		temperature 20°C and outdoor temp	
Tj=-7°C	Pdh - kW	Tj=-7°C	COPd
Tj=2°C	Pdh - kW	Tj=2°C	COPd
Tj=7°C	Pdh - kW	Tj=7°C	COPd
Tj=12°C	Pdh - kW	Tj=12°C	COPd
Tj=bivalent temperature	Pdh - kW	Tj=bivalent temperature	COPd
Tj=operating limit	Pdh - kW	Tj=operating limit	COPd
Tj=-15°C	Pdh - kW	Tj=-15°C	COPd
		1.5	
Bivalent temperature	This 10 °C	Operating limit temperature	Tol 45 °C
heating / Average	Tbiv -10 °C Tbiv 2 °C	heating / Average heating / Warmer	Tol
heating / Warmer			
heating / Colder	Tbiv - °C	heating / Colder	Tol - C
Cycling interval capacity		Cycling interval efficiency	
for cooling	Pcycc - kW	for cooling	EERcyc
for heating	Pcych - kW	for heating	COPcyc
Degradation coefficient		Degradation coefficient	
cooling	Cdc 0.25 -	heating	Cdh 0.25 -
		Appropriate a service to the service	
Electric power input in power modes of		Annual electricity consumption cooling	Qce 250 kWh/a
off mode	Poff 4 W	heating / Average	Qce 250 kWh/a Qhe 1158 kWh/a
standby mode	Psb 4 W	heating / Average	Qhe 1131 kWh/a
thermostat-off mode	Pto(cooling) 14 W Pto(heating) 15 W	heating / warmer	Qhe - kWh/a
crankcase heater mode	Pck 0 W	p.odding / doidd/	- II/4411/G
S.GSGO HOULD HIDGO	0 1//		
Capacity control(indicate one of three	options)	Other items	<u></u>
		Sound power level(indoor)	Lwa 59 dB(A)
		Sound power level(outdoor)	Lwa 61 dB(A)
fixed	No	Global warming potential	GWP 675 kgCO2eq.
staged	No	Rated air flow(indoor)	- 726 m3/h
variable	Yes	Rated air flow(outdoor)	- 1968 m3/h
Contact details for obtaining		nanufacturer or of its authorised represer	ntative.
	ishi Heavy Industries Air-Cor Square, Stockley Park, Uxbri		
		ie. minuriesex. UDII IEI.	
		,-,, ,	
	Kingdom	,-,	

INVERTER WALL MOUNTED TYPE RESIDENTIAL AIR-CONDITIONERS



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