Manual No.'18•SRK-T-234



# **TECHNICAL MANUAL**

# INVERTER WALL MOUNTED TYPE RESIDENTIAL AIR-CONDITIONERS

(Split system, air to air heat pump type)

SRK20ZSX-W, -WB, -WT SRK25ZSX-W, -WB, -WT SRK35ZSX-W, -WB, -WT SRK50ZSX-W, -WB, -WT SRK60ZSX-W, -WB, -WT

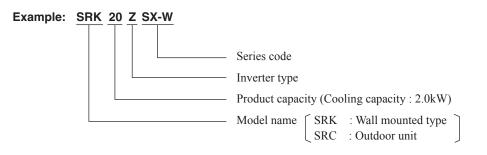
**MITSUBISHI HEAVY INDUSTRIES THERMAL SYSTEMS, LTD.** 

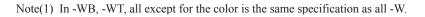
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## How to read the model name





# **1. SPECIFICATIONS**

				Model	SRK20ZSX-W					
Item					Indo		RK20ZSX-W	Outdoor unit S	RC20ZSX-W	
Power sou						1 F		', 50Hz / 220V, 60Hz		
	Nominal coolin			kW			2.0 ( 0.9(Min.			
	Nominal heatin		(range)	kW			2.7 ( 0.8(Min.)	) - 5.5 (Max.))		
	Heating capaci		o "	kW			-	-		
			Cooling		0.31 (0.16 - 0.76)					
	Power consum		Heating	kW	0.47(0.14 - 1.36)					
	Max nowar cor		Heating (H2)		1.92					
	Max power cor		Cooling		1.92 1.9 / 1.8 / 1.7 (220/ 230/ 240V)					
	Running currer		Cooling Heating	А			2.6/2.5/2.4 (2			
Operation	Inrush current,		<u> </u>				,	Max. 9		
data	,		Cooling					6		
aata	Power factor		Heating	%			8			
	EER		Cooling					45		
			Heating	1				74		
	COP		Heating (H2)	1			-	-		
	Sound power le	(	Cooling			53		56	j	
	Sound power le		Heating	1		55		58		
	Sound pressur		Cooling	dB(A)	Hi: 38	Me: 31 Lo	o: 24 ULo: 19	43	1	
			Heating		Hi: 38	Me: 33 Lo	o: 25 ULo: 19	45		
	Silent mode so					-		Cooling:33 /		
	imensions (Heig	ht x Width	x Depth)	mm		305 x 920		640 x 800(+		
	ppearance					Fine sn	-	Stucco		
(Equivaler	,				Munsell:		0.1 ), RAL: 9003	Munsell: ( 4.2Y 7.5		
Net weigh				kg		13		43.	-	
	sor type & Quant			1.54/		-		RMT5111SWE3(Twi		
	sor motor (Startin			kW		-		0.75 ( Invert		
	nt oil (Amount, ty		ere lese ette)	ł	D2	-		0.35 ( DIAMOND F		
Heat exch	nt (Type, amour	it, pre-char	ge length)	kg			grooved tubing	ne amount for the pipi M fins & inner g		
Refrigerar	0				Louver					
	& Quantity					Tangential	tronic expansion valv Propeller			
	r (Starting metho	d)		W		42 x1 (Direct drive)			ect drive)	
	r (otarting metric		Cooling				o: 6.0 ULo: 5.0	31.		
Air flow			Heating	m³/min			.o: 7.2 ULo: 5.4	31.		
Available	external static p		loating	Ра		0	0.1.2 020.0.1	011	0	
Outside a						Not poss	ible	-		
	Quality / Quantity	/			Polypro		Washable ) x 2	-		
	vibration absorbe						or fan motor)	Rubber sleeve (for fan i	notor & compresso	
Electric he	eater					-		-		
Operation	Remote contro	l					Wireless-rei	note control		
control	Room tempera	ture contro	l					er thermostat		
CONTINU	Operation disp	lay				RU	N: Green , TIMEF	R: Yellow , ECO: Blue		
								tion, Overcurrent protec		
Safety equ	uipments					,	0 1	ection, Indoor fan motor		
					Heating			ure control ), Cooling ove		
	Refrigerant pip		).D )	mm			e: φ6.35 (1/4")	Gas line: \$\$\phi_9.52 (3)	1	
	Connecting me					Flare conn		Flare con	nection	
Installation	Attached length			m	Liquid		Gas line : 0.48	-		
data	Insulation for p		) I a va avtit			N		ides ), independent		
	Refrigerant lin			m		15 ( 0 11	-	k.25	oit in Inversi	
	Vertical height di	n. between C	J.U. and I.U.	m		,	<u> </u>	/ Max.15 ( Outdoor un		
Drain au	Drain hose	.+			Hos	e connectab	ie (VP16)	Hole $\phi$ 20	x 5 pcs	
	np, max lift heigh			mm A		-	4	-		
	ended breaker si ocked rotor ampe			A				6 .5		
	ecting wires		Core number	~	1 Em-	$n^2 \times 4$ cores (		.ɔ e ) / Terminal block ( Sci	ow fixing type )	
IP number					1.500	IPX0		e)/Terminal block (Sci IPX		
	accessories				Mounting	-		1, Photocatalytic washable		
Option pa					wounting		Interface kit (			
Notes	(1) The data ar	e measure	d at the follow	ina con	ditions		(	ength is 5m.		
	Item		r temperature			temperature			1	
	Operation	DB	WB	$\rightarrow$	DB	WB	S S	tandards		
	Cooling	27°C	19°C		35°C	24°C	IS	O5151-T1	1	
	Heating	20°C	-		7°C	6°C		O5151-H1	1	
	Heating (H2)	20°C	-		2°C	1°C		O5151-H2	1	
	(2) This air-con		manufactured	and tes					-	
								ues are somewhat		
	higher due					5 -				

higher due to ambient conditions.(4) Select the breaker size according to the own national standard.

				Model			SRK25	ZSX-W			
Item					Indoo		25ZSX-W	Outdoor unit S	RC25ZSX-W		
Power so	urce					1 Pha	ase, 220 - 240V	, 50Hz / 220V, 60Hz			
	Nominal cooling	g capacity (r	ange)	kW			2.5 ( 0.9(Min.	) - 3.8 (Max.))			
	Nominal heating		ange)	kW			3.2 ( 0.8(Min.)	) - 6.0 (Max.))			
	Heating capacit			kW			-	_			
			ooling			0.44 ( 0.16 - 0.91 )					
	Power consump		eating	kW	0.59 ( 0.14 - 1.54 )						
		Н	eating (H2)				-	-			
	Max power con	sumption					1.	92			
	Running curren	t C	ooling					220/ 230/ 240V)			
		H	eating	A		3	<u>,</u>	220/ 230/ 240V)	/		
Operation	Inrush current, i						3.0	Max. 9			
data	Power factor	С	ooling	%				0			
	I Ower lactor	H	eating	70			8	5			
	EER	С	ooling				5.	68			
	COP		eating				5.	42			
	001	H	eating (H2)				-	_			
	Sound power le	C	ooling			55		57	,		
		H	eating			56		58	}		
	Sound pressure	C C	ooling	dB(A)	Hi: 39	Me: 33 Lo: 2		44			
		H	eating		Hi: 40	Me: 34 Lo: 2	7 ULo: 19	45			
	Silent mode sou	und pressure	e level					Cooling:35 /	Heating:39		
Exterior d	imensions (Heigh			mm		305 x 920 x 2	220	640 x 800(+	71) x 290		
Exterior a	ppearance					Fine snow		Stucco	white		
Equivale					Munsell:	(8.0Y 9.3/0.1	), RAL: 9003	Munsell: ( 4.2Y 7.5			
vet weigh				kg		13		43.			
Compress	sor type & Quanti	ty				-		RMT5111SWE3( Tw	in rotary type ) x 1		
	sor motor (Startin			kW		-		0.75 ( Invert			
	nt oil (Amount, ty			ł		-		0.35 ( DIAMOND I			
Refrigerar	nt (Type, amoun	t. pre-charg	e lenath)	kg	R3	2 1.20 in outd	oor unit (Incl. th	e amount for the pipi	/		
leat exch		<b>-</b> - <b>-</b>				ins & inner gro		M fins & inner g			
Refrigerar						Capillary tubes + Electronic expansion valve					
	& Quantity					Tangential fan x 1 Propeller fan x 1					
	r (Starting metho	d)		W		42 x1 (Direct d		34 x1 (Dire			
	(		ooling			Me: 10.0 Lo:	,	31.	,		
Air flow			eating	m³/min		Me: 11.0 Lo:		31.			
Vailable	external static pr		oating	Pa		0		0			
Dutside a		000010				Not possibl	e				
	Quality / Quantity				Polynro	pylene net ( W					
	vibration absorbe	r				er sleeve (for f		Rubber sleeve (for fan	motor & compress		
Electric he					TUDD	-		-			
	Pemote control						Wireless-rer	mote control			
Operation	Room temperat	ure control						er thermostat			
control	Operation displa					DI INI:		R: Yellow , ECO: Blue			
		ау						tion, Overcurrent protect			
Safety eq	uipments				Frost			ection, Indoor fan motor			
balety eq	upments						• ·	ure control ), Cooling ove			
	Pefrigorant nini			mm	i icalili		$\phi$ 6.35 (1/4")	Gas line: $\phi$ 9.52 (			
	Refrigerant pipi		וע					, ,	,		
	Connecting met				ا انمینا	Flare connect ine : 0.55 / Ga		Flare con			
nstallation	Attached length	<u> </u>		m				idoo) indones-last			
lata	Insulation for pi		lonath			Nec		ides ), independent			
	Refrigerant line			m				x.25	ait in Isuran )		
	Vertical height diff	. perween O.	u. and I.U.	m				/ Max.15 ( Outdoor u			
	Drain hose	1			Hos	e connectable	(VP16)	Hole $\phi$ 20	x 5 pcs		
	np, max lift height			mm		-		-			
	ended breaker siz			A				6			
· · · ·	ocked rotor ampe			A		2		.0	-		
	ecting wires	Size x Co	ore number		1.5mr		luding earth cabl	e) / Terminal block (Sc			
P numbe						IPX0		IPX			
	accessories				Mounting	kit, Clean filter ( Al	-	1, Photocatalytic washable	deodorizing filter x 1		
Option pa							Interface kit (				
Notes	(1) The data are	e measured	at the follow				The pipe le	ength is 5m.	-		
	Item	Indoor air	temperature		Dutdoor air	temperature	<u>م</u>	tandards			
	Operation	DB	WB		DB	WB					
	Cooling	27°C	19°C		35°C	24°C		O5151-T1			
	Heating	20°C	-		7°C	6°C		6O5151-H1			
	Heating (H2)	20°C	-		2°C	1°C	IS	O5151-H2	]		
	(2) This air-cond	ditioner is m	anufactured	and tes	sted in conf	ormity with the	ISO.		-		
								ues are somewhat			
	higher due t					0 1					

higher due to ambient conditions.(4) Select the breaker size according to the own national standard.

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ce Nominal cooling capaci Nominal heating capaci Heating capacity (H2)			Indoo	runit CDK2	5ZSX-W			
Nominal cooling capaci Nominal heating capaci Heating capacity (H2)				i unit SKKJ	5237-11	Outdoor unit SF	RC35ZSX-W	
Nominal heating capaci Heating capacity (H2)						, 50Hz / 220V, 60Hz		
Heating capacity (H2)	ty (range)	kW			<u>, ,</u>	) - 4.5 (Max.))		
	<u>,  ,</u>	kW			4.3 ( 0.8(Min.)	) - 6.8 (Max.))		
	-	kW				_		
	Cooling		0.74 ( 0.16 - 1.27 )					
Power consumption	Heating	kW	0.90 ( 0.14 - 1.87 )					
	Heating (H2)							
Max power consumption						92		
Running current	Cooling	А	3.7 / 3.5 / 3.4 (220/ 230/ 240 V)					
nruch ourront max our		A		4.		,		
nirusn current, max cur								
Power factor		%						
ER					-			
COP	<u> </u>					-		
				58		61		
Sound power level						-		
		dB(A)	Hi· 43		6 ULO <sup>.</sup> 19			
Sound pressure level		(* 1)						
Silent mode sound pres			111. 72		5 520.10		leating 43	
		mm			20			
			Munsell		). RAL: 9003			
		ka			,,			
r type & Quantity				-				
	d)	kW		-				
	(4)	ł						
	arge length)	ka	R3	2 1 20 in outdo	or unit (Incl. th	· · · · ·	/	
	uige leilgui)							
		W						
otalting motilou)	Cooling	<u>_</u>		(	/			
		m³/min						
ternal static pressure		Ра		0		0		
intake				Not possible	9			
ality / Quantity			Polypro			-		
pration absorber						Rubber sleeve (for fan m	notor & compresso	
ter				-		-		
Remote control					Wireless-rer	mote control		
	rol							
				RUN: (				
				Compressor	overheat protect	tion, Overcurrent protecti	ion,	
oments			Frost p					
					•			
Refrigerant piping size (	(O.D)	mm	Č			Gas line: \$\$\phi_9.52 (3)		
Connecting method						Flare conr	,	
	g	m	Liquid I			-		
nsulation for piping	-					ides ), independent		
	ay) length	m						
<u> </u>	11 0	m	Мах	.15 ( Outdoor )			it is lower)	
Drain hose						Hole $\phi$ 20		
, max lift height		mm		-	,	-	•	
ded breaker size		Α			1	6		
ked rotor ampere)		Α			4	.3		
ting wires Size	x Core number		1.5mn	n <sup>2</sup> x 4 cores ( Incl	uding earth cabl	e) / Terminal block ( Scre	ew fixing type)	
				IPX0		IPX4		
			Mounting	kit, Clean filter ( All	ergen clear filter x	1, Photocatalytic washable d	leodorizing filter x 1 )	
ccessories								
ccessories s		1 1	Interface kit ( SC-BIKN2-E )					
S	red at the follow	ing con	ditions.		The pipe le	ength is 5m.		
s 1) The data are measu	red at the follow			temperature		Ŭ		
s 1) The data are measu				temperature WB		ength is 5m. itandards		
s 1) The data are measu Item Indoor Dperation DB	air temperature WB		Dutdoor air		S	Ŭ		
s 1) The data are measu Item Indoor Depration DB Cooling 27°C	air temperature WB 19°C		Dutdoor air DB	WB	S IS	tandards		
s 1) The data are measu Item Indoor Deration DB Cooling 27°C	air temperature WB 19°C -		Dutdoor air DB 35°C	WB 24°C	S ISI ISI	tandards 05151-T1		
	Power factor ER COP Sound power level Sound pressure level Sound pressure level Sound pressure level Sound pressure level Sound pressure level Control starting method oil (Amount, type) (Type, amount, pre-ch nger control Quantity Starting method) ternal static pressure ntake ality / Quantity Starting method) ternal static pressure ntake ality / Quantity ration absorber ter Remote control Remote control Room temperature cont Operation display oments Refrigerant piping size ( Connecting method attached length of pipin nsulation for piping Refrigerant line (one we fertical height diff. between Drain hose , max lift height	Heating         ER       Cooling         COP       Heating         Heating       Heating         Sound power level       Cooling         Bound pressure level       Cooling         Heating       Heating         Sound pressure level       Cooling         Heating       Heating         Sound pressure level       Heating         ensions (Height x Width x Depth)       Heating         rearance       Cooling         color)       Image: Cooling         rearance       Cooling         color)       Image: Cooling         rearance       Cooling         color)       Image: Cooling         (Type, amount, type)       Image: Cooling         (Type, amount, pre-charge length)       Image: Cooling         Guantity       Starting method)         Quantity       Starting method)         Starting method)       Cooling         Iternal static pressure       Image: Cooling         Iternal static pressure       Image: Cooling         Iternal static pressure       Image: Cooling         Reamote control       Cooling         Operation display       Image: Cooling         Diffigerant piping si	Arrush current, max current       Cooling       %         Power factor       Cooling       %         EER       Cooling       %         COP       Heating       %         Sound power level       Cooling       Heating         Sound pressure level       Ensions (Height x Width x Depth)       mm         erarance       coolor)       kg         color)       Kg       rtype & Quantity       kg         r type & Quantity       Kg       (Type, amount, pre-charge length)       kg         nger       Cooling       m³/min         Cooling       m³/min       Heating       m³/min         Cauntity       Eternal static pressure       Pa       Pa         ntake       Intake       Intake       Intake       Intake         ality / Quantity       Cooling       Pa       Pa         Refrigerant piping size ( O.D )       mm       Mm       Intached length of piping         Connecting method	Arrush current, max current       Cooling       %         Power factor       Cooling       %         EER       Cooling       %         COP       Heating       %         Heating       Heating       %         Sound power level       Cooling       Heating         Heating       Heating       %         Sound pressure level       Cooling       Heating         ensions (Height x Width x Depth)       mm       mm         wearance       kg       %         color)       Munsell:       %         rype & Quantity       motor (Starting method)       kW         romor (Starting method)       kW       %         oil (Amount, type)       l       %         Cooling       m³/min       Hi: 13.1         Heating       m³/min       Hi: 13.1         Heating       m³/min       Hi: 13.1         Heating       m³/min       Hi: 13.1         Guantity       Polyprogration absorber       Rubb         terr       Remote control       Musell         Quantity       Polyprogration display       Mii 13.1         Make       Polyprogration display       Mii 14.1         Operat	nrush current, max current       Cooling Heating       %         Power factor       Cooling Heating       %         COP       Heating Heating (H2)       %         Sound power level       Cooling Heating       58         Sound pressure level       Cooling Heating       68         Sound pressure level       Cooling Heating       68         Silent mode sound pressure level       Fine snow Munsell: (8.0Y 9.3/0.1         eerance       Fine snow Munsell: (8.0Y 9.3/0.1         cooling Age       R32 1.20 in outdot (8 0.9 9.3/0.1         rype & Quantity       -         r type & Quantity       -         Quantity       Tangential fan         Quantity       Tangential fan         Rubuer       -         Rubuer       -         Rubuer       -         Retring       -         Rubuer       -      <	Anush current, max current       4.3 f         Power factor       Cooling Heating       %         ER       Cooling Heating       %         Sound power level       Cooling Heating       4.         Sound power level       Cooling Heating       58         Sound power level       Cooling Heating       48         Sound pressure level       Cooling Heating       48         Sound pressure level       Fine snow Munsell: (8.0Y 9.3/0.1), RAL: 9003         errance       Fine snow Mussell: (8.0Y 9.3/0.1), RAL: 9003         rtype & Quantity       -         rmotor (Starting method)       kW         control       Cooling m <sup>3</sup> /min         fleating       m <sup>3</sup> /min         fleating       m <sup>3</sup> /min         fleating       m <sup>3</sup> /min         fleating       Not possible         ality / Quantity       Polypropylene net (Washable) x 2         ration absorber       Rubber sleeve (for fan motor)         terral static pressure       Pa         omethod control       Wicrocomput         poperation display       Rubber sleeve (for fan motor)         terral static pressure       Pa       0         ntake       Not possible       2         ality / Quantity<	nrush current, max current       4.3       Max. 9         Power factor       Cooling       91         Power factor       Cooling       91         EER       Cooling       4.73         COP       Heating (H2)	

RWA000Z271

			Mode		SRK50ZSX-W					
Item				Indo		50ZSX-W	Outdoor unit S	RC50ZSX-W		
Power sou					1 Pha		, 50Hz / 220V, 60Hz			
	Nominal cooling capa	city (range)	kW			5.0 ( 1.0(Min.	) - 6.2 (Max.))			
	Nominal heating capa		kW			6.0 ( 0.8(Min.	) - 8.2 (Max.))			
	Heating capacity (H2)		kW			-	-			
		Cooling		1.24 ( 0.19 - 1.90 )						
	Power consumption	Heating	kW		1.36 ( 0.20 - 2.46 )					
		Heating (H	2)							
	Max power consumpt	ion		2.90						
	Bupping ourront	Cooling			5.	7/5.4/5.2 (2	220/ 230/ 240V)			
	Running current	Heating	Α		6.	2/6.0/5.7 (2	220/ 230/ 240V)			
Operation	Inrush current, max c					5.0	Max.15			
data	D ( )	Cooling				9	9			
	Power factor	Heating	%			9	9			
	EER	Cooling				4.0	03			
		Heating	-			4.4				
	COP	Heating (H	2)							
		Cooling	-/		59		63			
	Sound power level	Heating	-		62		61			
		Cooling	dB(A)	Hi: 44	Me: 39 Lo: 3	1 ULo: 22	51			
	Sound pressure level	Heating			Me: 39 Lo: 3 Me: 41 Lo: 3		49			
	Silent mode sound pr		-	<u>пі. 4/</u>	WE. 41 LO. 3.	5 ULU. 23	49 Cooling:42 / F	Joating: 12		
					- 305 x 920 x 2	20				
	mensions (Height x W	uti x Deptn)	mm			20	640 x 800(+	l l		
•	opearance			Mu	Fine snow		Stucco v			
Equivalen	/		1	wunsell:	(8.0Y 9.3/0.1)	), KAL: 9003	Munsell: (4.2Y 7.5/	1.1), KAL:700		
Vet weight			kg		13		45			
	or type & Quantity				-		RMT5111SWE3( Twi			
	or motor (Starting met	hod)	kW		-		1.50 ( Inverte			
	t oil (Amount, type)		ł		-		0.45 ( DIAMOND F			
	t (Type, amount, pre-	charge length)	kg				e amount for the pipir			
leat excha	<u> </u>			Louve	Louver fins & inner grooved tubing M fins & inner grooved tub					
Refrigeran	t control				Capillary tubes + Electronic expansion valve					
Fan type 8	& Quantity				Tangential fan	x 1	Propeller	fan x 1		
Ean motor	(Starting method)		W		42 x1 (Direct dr	ive)	34 x1 (Dire	ct drive)		
an motor										
	(•••••••)	Cooling			Me: 12.4 Lo:	7.8 ULo: 5.4	39.	0		
	(	Cooling Heating	m³/min	Hi: 14.3						
Air flow	external static pressure	Heating	m³/min Pa	Hi: 14.3	Me: 12.4 Lo:		39.			
Air flow Available e	external static pressure	Heating		Hi: 14.3	Me: 12.4 Lo: Me: 14.3 Lo: 9	9.8 ULo: 6.2	39. 33.			
Air flow Available e Dutside air	external static pressure	Heating		Hi: 14.3 Hi: 17.3	Me: 12.4 Lo: Me: 14.3 Lo: 9 0	9.8 ULo: 6.2	39. 33. 0			
Air flow Available e Dutside air Air filter, Q	external static pressure r intake	Heating		Hi: 14.3 Hi: 17.3 Polypro	Me: 12.4 Lo: Me: 14.3 Lo: 9 0 Not possible pylene net (Wa	9.8 ULo: 6.2 e shable ) x 2	39. 33. 0	0		
Air flow Available e Outside air Air filter, Q Shock & vi	external static pressure r intake Quality / Quantity ibration absorber	Heating		Hi: 14.3 Hi: 17.3 Polypro	Me: 12.4 Lo: Me: 14.3 Lo: 9 0 Not possible	9.8 ULo: 6.2 e shable ) x 2	39. 33. 0 -	0		
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Air flow Available e Dutside air Air filter, Q Shock & vi Electric he Operation	external static pressure r intake quality / Quantity ibration absorber eater Remote control	Heating		Hi: 14.3 Hi: 17.3 Polypro	Me: 12.4 Lo: Me: 14.3 Lo: 9 0 Not possible pylene net (Wa	9.8 ULo: 6.2 e shable ) x 2 an motor) Wireless rer	39. 33. 0 - Rubber sleeve (for fan n - note control	0		
Air flow Available e Dutside air Air filter, Q Shock & vi Electric he Operation	external static pressure r intake puality / Quantity ibration absorber eater Remote control Room temperature co	Heating		Hi: 14.3 Hi: 17.3 Polypro	Me: 12.4 Lo: Me: 14.3 Lo: 9 0 Not possible pylene net (Wa her sleeve (for fa	9.8 ULo: 6.2 shable ) x 2 an motor) Wireless rer Microcomput	39. 33. 0 - Rubber sleeve (for fan n - note control er thermostat	0		
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Air flow Available e Outside ain Air filter, Q Shock & vi Electric he Operation control Safety equ nstallation data Drain pum Recomme R.A. (Loo nterconne P number Standard a Option par	external static pressure r intake puality / Quantity ibration absorber ater Remote control Room temperature cc Operation display upments Refrigerant piping siz Connecting method Attached length of pip Insulation for piping Refrigerant line (one Vertical height diff. betwe Drain hose p, max lift height nded breaker size cked rotor ampere) ecting wires Siz accessories ts (1) The data are mea	Heating e ontrol e ( O.D ) ing way) length een O.U. and I.U. e x Core numbe	Pa Pa Pa Pa Pa Pa Pa Pa Pa Pa Pa Pa Pa P	Hi: 14.3 Hi: 17.3 Polypro Rubb Frost   Heatin Liquid Ma: Hos Hos U	Me: 12.4 Lo: Me: 14.3 Lo: 9 Not possible pylene net (Wa ber sleeve (for fa - RUN: 0 Compressor protection, Serial g overload protec Liquid line: Flare connecti line : 0.55 / Gas Necce x.20 ( Outdoor u e connectable ( - m <sup>2</sup> x 4 cores ( Incl IPX0 kit, Clean filter ( All	$2.8$ ULo: 6.2         shable ) x 2       an motor)         Wireless rer       Microcomput         Microcomput       Green , TIMEF         roverheat protection(High pressumerts) $\phi$ 6.35 (1/4")         on       bine : 0.48         sssary (Both s       Maximum filt is higher)         VP16 )       2         uding earth cable       5.         uding earth cable       11         ergen clear filter x       The pipe left	39.     33.     0	0 notor & compress ion, error protection, rrload protection 1/2" ) nection hit is lower ) 0 x 5 pcs ew fixing type )		
Air flow Available e Dutside ain Air filter, Q Shock & vi Electric he Operation control Safety equ nstallation data Drain pum Recomme R.A. (Loo nterconne P number Standard a Option par	external static pressure r intake puality / Quantity ibration absorber ater Remote control Room temperature cc Operation display upments Refrigerant piping siz Connecting method Attached length of pip Insulation for piping Refrigerant line (one Vertical height diff. betwe Drain hose p, max lift height nded breaker size cked rotor ampere) coting wires Siz accessories ts (1) The data are mean Item Indo	Heating e introl e ( O.D ) ing way) length een O.U. and I.U. e x Core numbe sured at the foll or air temperat	Pa           Pa           Image: Second	Hi: 14.3 Hi: 17.3 Polypro Rubb Frost   Heatin Liquid Ma: Hos Hos Utiquid	Me: 12.4 Lo: Me: 14.3 Lo: 9 Not possible pylene net (Wa ber sleeve (for fa 	$2.8$ ULo: 6.2         shable ) x 2       an motor)         Wireless rer       Microcomput         Microcomput       Green , TIMEF         roverheat protection(High pressumerts) $\phi$ 6.35 (1/4")         on       bine : 0.48         sssary (Both s       Maximum filt is higher)         VP16 )       2         uding earth cable       5.         uding earth cable       11         ergen clear filter x       The pipe left	39.     33.     0  Rubber sleeve (for fan n mote control er thermostat R: Yellow , ECO: Blue tion, Overcurrent protect ection, Indoor fan motor e ure control ), Cooling ove Gas line:	0 notor & compress ion, error protection, rrload protection 1/2" ) nection hit is lower ) 0 x 5 pcs ew fixing type )		
Air flow Available e Outside ain Air filter, Q Shock & vi Electric he Operation control Safety equ Installation data Drain pum Recomme L.R.A. (Loo Interconne IP number Standard a Option par	external static pressure r intake puality / Quantity ibration absorber eater Remote control Room temperature cc Operation display upments Refrigerant piping siz Connecting method Attached length of pip Insulation for piping Refrigerant line (one Vertical height diff. betwo Drain hose p, max lift height diff. betwo Drain hose p, max lift height diff. betwo Drain hose p, max lift height diff. betwo Drain hose scting wires size cked rotor ampere) ecting wires sts (1) The data are mean Operation D	Heating introl e ( O.D ) ing way) length een O.U. and I.U. e x Core numbro sured at the foll or air temperat B W	Pa Pa Pa Pa Pa Pa Pa Pa Pa Pa Pa Pa Pa P	Hi: 14.3 Hi: 17.3 Polypro Rubb Frost   Heatin Liquid Ma: Hos Hos Utiquid	Me: 12.4 Lo: Me: 14.3 Lo: 9 Not possible pylene net (Wa ber sleeve (for fa 	2.8       ULo: 6.2 $2.8$ shable ) x 2         an motor)       Wireless rer         Microcompute       State of the s	39.         33.         0         -         Rubber sleeve (for fan n         -         mote control         er thermostat         X: Yellow , ECO: Blue         tion, Overcurrent protect         action, Indoor fan motor e         ure control ), Cooling ove         Gas line: $\phi$ 12.7 (1         Flare conr         -         ides ), independent         <<.30	0 notor & compresse ion, error protection, rrload protection 1/2" ) nection hit is lower ) 0 x 5 pcs ew fixing type )		
Air flow Available e Outside ain Air filter, Q Shock & vi Electric he Operation control Safety equ nstallation data Drain pum Recomme R.A. (Loo nterconne P number Standard a Option par	external static pressure r intake puality / Quantity ibration absorber eater Remote control Room temperature cc Operation display upments Refrigerant piping siz Connecting method Attached length of pip Insulation for piping Refrigerant line (one Vertical height diff. betwo Drain hose p, max lift height nded breaker size cked rotor ampere) ecting wires sts (1) The data are mean Operation D Cooling 275	Heating Heating introl e ( O.D ) ing way) length een O.U. and I.U. e x Core number sured at the foll or air temperat B W C 19°	Pa Pa Pa Pa Pa Pa Pa Pa Pa Pa Pa Pa Pa P	Hi: 14.3 Hi: 17.3 Polypro Rubb Frost   Heatin Liquid Ma: Hos Hos Utiquid Ma: Buthos Hos Soc	Me: 12.4 Lo: Me: 14.3 Lo: 9 Not possible pylene net (Wa ber sleeve (for fa 	2.8       ULo: 6.2 $2.8$ shable ) x 2         an motor)       Wireless rer         Microcompute       Signal error protection (High pressumption of the second protection of the secon	39.           33.           0           -           Rubber sleeve (for fan n           -           mote control           er thermostat           ?: Yellow , ECO: Blue           tion, Overcurrent protect           action, Indoor fan motor e           ure control ), Cooling ove           Gas line: φ12.7 (1           Flare conr           -           ides ), independent           κ.30           / Max.20 ( Outdoor un           Hole φ20           -           0           1, Photocatalytic washable of SC-BIKN2-E )           ength is 5m.           tan	0 notor & compresse ion, error protection, rrload protection 1/2" ) nection hit is lower ) 0 x 5 pcs ew fixing type )		
Air flow Available e Outside ain Air filter, Q Shock & vi Electric he Operation control Safety equ nstallation data Drain pum Recomme R.A. (Loo nterconne P number Standard a Option par	external static pressure r intake puality / Quantity ibration absorber eater Remote control Room temperature cc Operation display upments Refrigerant piping siz Connecting method Attached length of pip Insulation for piping Refrigerant line (one Vertical height diff. betwo Drain hose p, max lift height diff. betwo Drain hose p, max lift height diff. betwo Drain hose p, max lift height diff. betwo Drain hose scting wires size cked rotor ampere) ecting wires sts (1) The data are mean Operation D	Heating Heating Introl Intr	Pa Pa Pa Pa Pa Pa Pa Pa Pa Pa Pa Pa Pa P	Hi: 14.3 Hi: 17.3 Polypro Rubb Frost   Heatin Liquid Ma: Hos Hos Utiquid	Me: 12.4 Lo: Me: 14.3 Lo: 9 Not possible pylene net (Wa ber sleeve (for fa 	2.8       ULo: 6.2 $2.8$ shable ) x 2         an motor)       Wireless rer         Microcompute       Green , TIMEF         overheat protection (High pressume) $0.35 (1/4")$ oon $0.35 (1/4")$ oon $0.35 (1/4")$ oon $0.35 (1/4")$ oon $0.48$ essary (Both s       Max         unit is higher ) $0.48$ vP16 )       2 $5.000000000000000000000000000000000000$	39.         33.         0         -         Rubber sleeve (for fan n         -         mote control         er thermostat         X: Yellow , ECO: Blue         tion, Overcurrent protect         action, Indoor fan motor e         ure control ), Cooling ove         Gas line: $\phi$ 12.7 (1         Flare conr         -         ides ), independent         <<.30	0 notor & compresse ion, error protection, rrload protection 1/2" ) nection hit is lower ) 0 x 5 pcs ew fixing type )		

ομ iy (a) Sound level indicates the value in an ancenoic chamber. During higher due to ambient conditions.(4) Select the breaker size according to the own national standard.

			Model		60ZSX-W				
Item				Indoor unit SRK60ZSX-W	Outdoor unit SRC60ZSX-W				
Power sou			L		0V, 50Hz / 220V, 60Hz				
	Nominal cooling capa		kW		n.) - 6.9 (Max.))				
	Nominal heating capa	city (range)	kW	6.8 ( 0.8(Mi	n.) - 8.8 (Max.))				
	Heating capacity (H2)		kW		_				
		Cooling	-	<u>1.71 ( 0.19 - 2.50 )</u> 1.65 ( 0.20 - 2.86 )					
	Power consumption	Heating	kW	1.65 ( U	).20 - 2.86 )				
	NA	Heating (H2)	4						
	Max power consumpt			2.90					
	Running current	Cooling		7.9 / 7.5 / 7.2 (220/ 230/ 240V) 7.6 / 7.2 / 6.9 (220/ 230/ 240V)					
Oneration	lamah aumant manya	Heating	A						
	Inrush current, max cu			5.0	Max. 15				
data	Power factor	Cooling	%		99 99				
		Heating							
	EER	Cooling Heating	-		3.57 4.12				
	COP	Ŭ	4		4.12				
		Heating (H2)		63	65				
ļ	Sound power level	Cooling	1	62 63	<u>65</u> 64				
		Heating Cooling	dB(A)	Hi: 48 Me: 41 Lo: 33 ULo: 22	52				
	Sound pressure level	Heating		Hi: 47 Me: 42 Lo: 34 ULo: 23	52				
	Silent mode cound ar		1	HI. 47 Me. 42 LO. 34 OLO. 23	Cooling:42 / Heating:43				
Exterior di	Silent mode sound pro mensions (Height x Wi		mm	- 305 x 920 x 220	640 x 800(+71) x 290				
	opearance			Fine snow	Stucco white				
Equivalen			1	Munsell: ( 8.0Y 9.3/0.1 ), RAL: 9003					
Net weight			kg	13	45				
	or type & Quantity		Ng	-	RMT5111SWE3(Twin rotary type) x 1				
	or motor (Starting met	nod)	kW	-	1.50 ( Inverter driven )				
	it oil (Amount, type)	iou)	ł		0.45 ( DIAMOND FREEZE MB75 )				
	it (Type, amount, pre-	charge length)	kg	P32_1_30 in outdoor unit (Incl	the amount for the piping of 15m )				
Heat excha		inarge lengtit)	Ng	Louver fins & inner grooved tubing	M fins & inner grooved tubing				
Refrigeran	<u> </u>			° °	ectronic expansion valve				
Fan type 8				Tangential fan x 1					
	(Starting method)		W	42 x1 (Direct drive)	Propeller fan x 1 34 x1 (Direct drive)				
	(otarting method)	Cooling		Hi: 16.3 Me: 13.4 Lo: 8.9 ULo: 5.4	· · · · · · · · · · · · · · · · · · ·				
Air flow		Heating	m³/min	Hi: 17.8 Me: 13.7 Lo: 10.9 ULo: 6.2					
Available (	external static pressure		Ра	0	0				
Outside ai			·α	Not possible	-				
	Quality / Quantity			Polypropylene net (Washable ) x 2					
	ibration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compress				
Electric he				-	-				
	Remote control			Wireless r	emote control				
Operation	Room temperature co	ntrol							
				Microcomputer thermostat					
	Operation display								
	Operation display			RUN: Green , TIM	ER: Yellow , ECO: Blue				
control	• • • • •			RUN: Green , TIM Compressor overheat prof					
control	• • • • •			RUN: Green , TIM Compressor overheat prot Frost protection, Serial signal error pr	ER: Yellow , ECO: Blue tection, Overcurrent protection,				
control	uipments		mm	RUN: Green , TIM Compressor overheat prot Frost protection, Serial signal error pr	ER: Yellow , ECO: Blue tection, Overcurrent protection, otection, Indoor fan motor error protection, ssure control ), Cooling overload protection				
control	uipments Refrigerant piping size		mm	RUN: Green , TIM Compressor overheat prot Frost protection, Serial signal error pr Heating overload protection( High pres	ER: Yellow , ECO: Blue tection, Overcurrent protection, otection, Indoor fan motor error protection, ssure control ), Cooling overload protection				
Control	uipments	e(O.D)	mm	RUN: Green         TIM           Compressor overheat prof         Frost protection, Serial signal error pr           Heating overload protection( High pres         Liquid line: $\phi$ 6.35 ( 1/4"           Flare connection         Flare connection	ER: Yellow , ECO: Blue tection, Overcurrent protection, otection, Indoor fan motor error protection, ssure control ), Cooling overload protection ) Gas line: $\phi$ 12.7 (1/2")				
control Safety equ	uipments Refrigerant piping size Connecting method	e(O.D)		RUN: Green         TIM           Compressor overheat prof         Frost protection, Serial signal error pr           Heating overload protection( High pres         Liquid line: $\phi$ 6.35 ( 1/4"           Flare connection         Flare signal ine : 0.48	ER: Yellow , ECO: Blue tection, Overcurrent protection, otection, Indoor fan motor error protection, ssure control ), Cooling overload protection ) Gas line: $\phi$ 12.7 (1/2")				
control Safety equ	uipments Refrigerant piping size Connecting method Attached length of pip Insulation for piping	e ( O.D ) ing		RUN: Green         TIM           Compressor overheat prof         Frost protection, Serial signal error pr           Heating overload protection( High pres         Liquid line: $\phi$ 6.35 ( 1/4"           Flare connection         Flate in connection           Liquid line : 0.55 / Gas line : 0.48         Necessary ( Both	ER: Yellow , ECO: Blue tection, Overcurrent protection, otection, Indoor fan motor error protection, ssure control ), Cooling overload protection ) Gas line: $\phi$ 12.7 ( 1/2" ) Flare connection				
control Safety equ	uipments Refrigerant piping size Connecting method Attached length of pip	e ( O.D ) ing way) length	m	RUN: Green         TIM           Compressor overheat prot         Frost protection, Serial signal error pr           Heating overload protection( High pres         Liquid line: $\phi$ 6.35 ( 1/4"           Flare connection         Liquid line : 0.48           Necessary ( Both         Necessary ( Both	ER: Yellow , ECO: Blue tection, Overcurrent protection, otection, Indoor fan motor error protection, ssure control ), Cooling overload protection ) Gas line: $\phi$ 12.7 ( 1/2" ) Flare connection 				
control Safety equ	uipments Refrigerant piping size Connecting method Attached length of pip Insulation for piping Refrigerant line (one	e ( O.D ) ing way) length	m m	RUN: Green , TIM         Compressor overheat prot         Frost protection, Serial signal error pr         Heating overload protection( High pres         Liquid line: $\phi$ 6.35 ( 1/4"         Flare connection         Liquid line : 0.55 / Gas line : 0.48         Necessary ( Both         Max.20 ( Outdoor unit is higher	ER: Yellow , ECO: Blue tection, Overcurrent protection, otection, Indoor fan motor error protection, ssure control ), Cooling overload protection ) Gas line: $\phi$ 12.7 ( 1/2" ) Flare connection - a sides ), independent				
Safety equ nstallation lata	Refrigerant piping size Connecting method Attached length of pip Insulation for piping Refrigerant line (one Vertical height diff. betwee Drain hose	e ( O.D ) ing way) length	m m	RUN: Green         TIM           Compressor overheat prot         Frost protection, Serial signal error pr           Heating overload protection( High pres         Liquid line: $\phi$ 6.35 ( 1/4"           Flare connection         Liquid line : 0.48           Necessary ( Both         Necessary ( Both	ER: Yellow , ECO: Blue tection, Overcurrent protection, otection, Indoor fan motor error protection, ssure control ), Cooling overload protection ) Gas line: $\phi$ 12.7 ( 1/2" ) Flare connection - n sides ), independent lax.30 c) / Max.20 ( Outdoor unit is lower )				
Safety equ Installation data	Lipments Refrigerant piping size Connecting method Attached length of pip Insulation for piping Refrigerant line (one Vertical height diff. betwee	e ( O.D ) ing way) length	m m m	RUN: Green , TIM         Compressor overheat prof         Frost protection, Serial signal error pr         Heating overload protection( High pressor         Liquid line: $\phi$ 6.35 ( 1/4"         Flare connection         Liquid line : 0.55 / Gas line : 0.48         Necessary ( Both         Max.20 ( Outdoor unit is higher         Hose connectable ( VP16 )	ER: Yellow , ECO: Blue tection, Overcurrent protection, otection, Indoor fan motor error protection, ssure control ), Cooling overload protection ) Gas line: $\phi$ 12.7 ( 1/2" ) Flare connection 				
Safety equ Installation data Drain pum Recomme	August Angle	e ( O.D ) ing way) length	m m m m	RUN: Green , TIM         Compressor overheat prof         Frost protection, Serial signal error pr         Heating overload protection( High pressor         Liquid line: $\phi$ 6.35 ( 1/4"         Flare connection         Liquid line : 0.55 / Gas line : 0.48         Necessary ( Both         Max.20 ( Outdoor unit is higher         Hose connectable ( VP16 )	ER: Yellow , ECO: Blue tection, Overcurrent protection, otection, Indoor fan motor error protection, ssure control ), Cooling overload protection ) Gas line: $\phi$ 12.7 ( 1/2" ) Flare connection - n sides ), independent lax.30 - / Max.20 ( Outdoor unit is lower ) Hole $\phi$ 20 x 5 pcs -				
Safety equ Installation lata Drain pum Recomme R.A. (Loo	Refrigerant piping size Connecting method Attached length of pip Insulation for piping Refrigerant line (one Vertical height diff. betwe Drain hose p, max lift height inded breaker size cked rotor ampere)	e ( O.D ) ing way) length ten O.U. and I.U.	m m m m mm A	RUN: Green , TIM Compressor overheat prof Frost protection, Serial signal error pr Heating overload protection( High pres Liquid line: $\phi$ 6.35 ( 1/4" Flare connection Liquid line : 0.55 / Gas line : 0.48 Necessary ( Both Max.20 ( Outdoor unit is higher Hose connectable ( VP16 )	ER: Yellow , ECO: Blue tection, Overcurrent protection, otection, Indoor fan motor error protection, ssure control ), Cooling overload protection ) Gas line: $\phi$ 12.7 ( 1/2" ) Flare connection - n sides ), independent lax.30 - ) / Max.20 ( Outdoor unit is lower ) Hole $\phi$ 20 x 5 pcs - 20				
Safety equ Installation Jata Drain pum Recomme R.A. (Loo Interconne	Refrigerant piping size Connecting method Attached length of pip Insulation for piping Refrigerant line (one Vertical height diff. betwe Drain hose up, max lift height inded breaker size cked rotor ampere) ecting wires	e ( O.D ) ing way) length	m m m m mm A	RUN: Green , TIM Compressor overheat prof Frost protection, Serial signal error pr Heating overload protection( High pres Liquid line: $\phi$ 6.35 ( 1/4" Flare connection Liquid line : 0.55 / Gas line : 0.48 Necessary ( Both Max.20 ( Outdoor unit is higher Hose connectable ( VP16 )	ER: Yellow , ECO: Blue tection, Overcurrent protection, otection, Indoor fan motor error protection, ssure control ), Cooling overload protection ) Gas line: $\phi$ 12.7 ( 1/2" ) Flare connection - n sides ), independent lax.30 - / Max.20 ( Outdoor unit is lower ) Hole $\phi$ 20 x 5 pcs - 20 5.0				
Safety equ Safety equ Installation Jata Drain pum Recomme R.A. (Loo Interconne P number	Refrigerant piping size Connecting method Attached length of pip Insulation for piping Refrigerant line (one Vertical height diff. betwe Drain hose up, max lift height inded breaker size cked rotor ampere) ecting wires	e ( O.D ) ing way) length ten O.U. and I.U.	m m m m mm A	RUN: Green , TIM         Compressor overheat prof         Frost protection, Serial signal error pr         Heating overload protection( High pres         Liquid line: $\phi$ 6.35 ( 1/4"         Flare connection         Liquid line : 0.55 / Gas line : 0.48         Necessary ( Both         Max.20 ( Outdoor unit is higher         Hose connectable ( VP16 )         -         1.5mm <sup>2</sup> x 4 cores ( Including earth ca         IPX0	ER: Yellow , ECO: Blue tection, Overcurrent protection, otection, Indoor fan motor error protection ) Gas line: $\phi$ 12.7 ( 1/2" ) Flare connection - a sides ), independent lax.30 c) / Max.20 ( Outdoor unit is lower ) Hole $\phi$ 20 x 5 pcs - 20 5.0 able ) / Terminal block ( Screw fixing type ) IPX4				
Safety equ Installation Jata Drain pum Recomme R.A. (Loo Interconne P number Standard a	A constraint service of the service	e ( O.D ) ing way) length ten O.U. and I.U.	m m m m mm A	RUN: Green , TIM         Compressor overheat prof         Frost protection, Serial signal error pr         Heating overload protection(High pres         Liquid line: $\phi$ 6.35 (1/4"         Flare connection         Liquid line : 0.55 / Gas line : 0.48         Necessary (Both         Max.20 (Outdoor unit is higher         Hose connectable (VP16)         -         1.5mm <sup>2</sup> x 4 cores (Including earth ca         IPX0         Mounting kit, Clean filter (Allergen clear filter)	ER: Yellow , ECO: Blue tection, Overcurrent protection, otection, Indoor fan motor error protection ) Gas line: $\phi$ 12.7 ( 1/2" ) Flare connection - a sides ), independent lax.30 c) / Max.20 ( Outdoor unit is lower ) Hole $\phi$ 20 x 5 pcs - 20 5.0 able ) / Terminal block ( Screw fixing type ) IPX4				
Safety equ Installation Jata Drain pum Recomme R.A. (Loo Interconne P number Standard a	Refrigerant piping size Connecting method Attached length of pip Insulation for piping Refrigerant line (one Vertical height diff. betwe Drain hose p, max lift height anded breaker size cked rotor ampere) ecting wires Size accessories	e ( O.D ) ing way) length en O.U. and I.U. e x Core number	m m m A A A	RUN: Green , TIM         Compressor overheat prof         Frost protection, Serial signal error pr         Heating overload protection( High pres         Liquid line: $\phi$ 6.35 ( 1/4"         Flare connection         Liquid line : 0.55 / Gas line : 0.48         Necessary ( Both         Max.20 ( Outdoor unit is higher         Hose connectable ( VP16 )         -         1.5mm <sup>2</sup> x 4 cores ( Including earth ca         IPX0         Mounting kit, Clean filter ( Allergen clear filter	ER: Yellow , ECO: Blue tection, Overcurrent protection, otection, Indoor fan motor error protection ) Gas line: $\phi$ 12.7 (1/2") Flare connection - a sides ), independent lax.30 c) / Max.20 (Outdoor unit is lower ) Hole $\phi$ 20 x 5 pcs - 20 5.0 able ) / Terminal block (Screw fixing type ) IPX4 r x 1, Photocatalytic washable deodorizing filter x 1				
Control Safety equ Installation data Drain pum Recomme L.R.A. (Loo Interconne IP number Standard a Option par	Refrigerant piping size Connecting method Attached length of pip Insulation for piping Refrigerant line (one Vertical height diff. betwe Drain hose p, max lift height inded breaker size cked rotor ampere) ecting wires Size accessories rts (1) The data are meas	e ( O.D ) ing way) length ten O.U. and I.U. e x Core number sured at the follow	m m m A A A	RUN: Green , TIM         Compressor overheat prof         Frost protection, Serial signal error pr         Heating overload protection( High pressor         Liquid line: $\phi$ 6.35 ( 1/4"         Flare connection         Liquid line : 0.55 / Gas line : 0.48         Necessary ( Both         M         Max.20 ( Outdoor unit is higher         Hose connectable ( VP16 )         1.5mm <sup>2</sup> x 4 cores ( Including earth ca         IPX0         Mounting kit, Clean filter ( Allergen clear filter         Interface kit         ditions.       The pipe	ER: Yellow , ECO: Blue tection, Overcurrent protection, otection, Indoor fan motor error protection ) Gas line: $\phi$ 12.7 ( 1/2" ) Flare connection 				
Control Safety equ Installation data Drain pum Recomme L.R.A. (Loo Interconne IP number Standard a Option par	Refrigerant piping size         Connecting method         Attached length of pip         Insulation for piping         Refrigerant line (one         Vertical height diff. betwee         Drain hose         up, max lift height         inded breaker size         cked rotor ampere)         accessories         rts         (1) The data are meas	e ( O.D ) ing way) length ten O.U. and I.U. e x Core number sured at the follow or air temperature	m m m A A A	RUN: Green , TIM         Compressor overheat prof         Frost protection, Serial signal error pr         Heating overload protection( High pres         Liquid line: $\phi$ 6.35 ( 1/4"         Flare connection         Liquid line : 0.55 / Gas line : 0.48         Necessary ( Both         Max.20 ( Outdoor unit is higher         Hose connectable ( VP16 )         -         1.5mm <sup>2</sup> x 4 cores ( Including earth ca         IPX0         Mounting kit, Clean filter ( Allergen clear filter	ER: Yellow , ECO: Blue tection, Overcurrent protection, otection, Indoor fan motor error protection ) Gas line: $\phi$ 12.7 ( 1/2" ) Flare connection - a sides ), independent lax.30 - / Max.20 ( Outdoor unit is lower ) Hole $\phi$ 20 x 5 pcs - 20 5.0 able ) / Terminal block ( Screw fixing type ) IPX4 r x 1, Photocatalytic washable deodorizing filter x 1 ( SC-BIKN2-E )				
Control Safety equ Installation data Drain pum Recomme L.R.A. (Loo Interconne IP number Standard a Option par	Refrigerant piping size         Connecting method         Attached length of pip         Insulation for piping         Refrigerant line (one         Vertical height diff. betwee         Drain hose         up, max lift height         inded breaker size         cked rotor ampere)         accessories         rts         (1) The data are meas         Operation         D         Dration         D         Drain hose         Drain hose         Size         Checker of the size         Contract of the size         Contract of the size         Description         D	e ( O.D ) ing way) length en O.U. and I.U. e x Core number sured at the follow or air temperature 3 WB	m m m A A A	RUN: Green , TIM         Compressor overheat prof         Frost protection, Serial signal error pr         Heating overload protection( High pressor         Liquid line: $\phi$ 6.35 ( 1/4"         Flare connection         Liquid line : 0.55 / Gas line : 0.48         Necessary ( Both         Max.20 ( Outdoor unit is higher         Hose connectable ( VP16 )         -         1.5mm² x 4 cores ( Including earth ca         IPX0         Mounting kit, Clean filter ( Allergen clear filter         Interface kit         ditions.       The pipe         DB       WB	ER: Yellow , ECO: Blue tection, Overcurrent protection, otection, Indoor fan motor error protection ) Gas line: $\phi$ 12.7 ( 1/2" ) Flare connection 				
Control Safety equ Installation data Drain pum Recomme L.R.A. (Loo Interconne IP number Standard a Option par	Refrigerant piping size         Connecting method         Attached length of pip         Insulation for piping         Refrigerant line (one         Vertical height diff. betwee         Drain hose         up, max lift height         inded breaker size         cked rotor ampere)         accessories         rts         (1) The data are meas         Operation       DI         Cooling       27°	e ( O.D ) ing way) length en O.U. and I.U. e x Core number sured at the follow or air temperature 3 WB C 19°C	m m m A A A	RUN: Green , TIM         Compressor overheat prof         Frost protection, Serial signal error pr         Heating overload protection( High pressor         Liquid line: $\phi$ 6.35 ( 1/4"         Flare connection         Liquid line : 0.55 / Gas line : 0.48         Necessary ( Both         Max.20 ( Outdoor unit is higher         Hose connectable ( VP16 )         -         1.5mm² x 4 cores ( Including earth ca         IPX0         Mounting kit, Clean filter ( Allergen clear filter         Interface kit         ditions.       The pipe         DB       WB         35°C       24°C	ER: Yellow , ECO: Blue tection, Overcurrent protection, otection, Indoor fan motor error protection ) Gas line: $\phi$ 12.7 ( 1/2" ) Flare connection 				
Safety equ nstallation Jata Drain pum Recomme R.A. (Loo nterconne P number Standard a Option par	Refrigerant piping size         Connecting method         Attached length of pip         Insulation for piping         Refrigerant line (one         Vertical height diff. betwee         Drain hose         up, max lift height         inded breaker size         cked rotor ampere)         accessories         rts         (1) The data are meas         Operation         D         Dration         D         Drain hose         Drain hose         Size         Checker of the size         Contract of the size         Contract of the size         Description         D	e ( O.D ) ing way) length en O.U. and I.U. e x Core number sured at the follow or air temperature 3 WB C 19°C C -	m m m A A A	RUN: Green , TIM         Compressor overheat prof         Frost protection, Serial signal error pr         Heating overload protection( High pressor         Liquid line: $\phi$ 6.35 ( 1/4"         Flare connection         Liquid line: 0.55 / Gas line : 0.48         Necessary ( Both         Max.20 ( Outdoor unit is higher         Hose connectable ( VP16 )         -         1.5mm² x 4 cores ( Including earth ca         IPX0         Mounting kit, Clean filter ( Allergen clear filter         Interface kit         ditions.       The pipe         DB       WB         35°C       24°C         7°C       6°C	ER: Yellow , ECO: Blue tection, Overcurrent protection, otection, Indoor fan motor error protection ) Gas line: $\phi$ 12.7 ( 1/2" ) Flare connection a sides ), independent lax.30 ) / Max.20 ( Outdoor unit is lower ) Hole $\phi$ 20 x 5 pcs - 20 5.0 able ) / Terminal block ( Screw fixing type ) IPX4 x 1, Photocatalytic washable deodorizing filter x 1 ( SC-BIKN2-E ) e length is 5m. Standards ISO5151-T1				

(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		SRK20ZSX-WB					
Item					Indoc	or unit SRK2	20ZSX-WB	Outdoor unit S	RC20ZSX-W		
Power sou	irce							/, 50Hz / 220V, 60Hz			
	Nominal coolin	ng capacity	(range)	kW			2.0 ( 0.9(Min.	) - 3.4 (Max.))			
	Nominal heatir			kW			2.7 ( 0.8(Min.	) - 5.5 (Max.))			
	Heating capac	ity (H2)		kW			-	_			
			Cooling		0.31 ( 0.16 - 0.76 )						
	Power consum	nption	Heating	kW	0.47 ( 0.14 - 1.36 )						
			Heating (H2)	r.vv		_					
	Max power con	nsumption					1.	92			
	Running curre	nt	Cooling			1.9 / 1.8 / 1.7 (220/ 230/ 240V)					
	Running curren	m	Heating	А	2.6 / 2.5 / 2.4 (220/ 230/ 240V)						
Operation	Inrush current,	max curre	ent				2.5 I	Max. 9			
data	Power factor		Cooling	%			7	6			
	Fower lactor		Heating	/0			8	51			
	EER		Cooling				6.	45			
	COP		Heating				5.	74			
	001		Heating (H2)				-	_			
	Sound power I	aval	Cooling			53		56			
	Sound power i	evei	Heating			55		58			
	Sound pressur		Cooling	dB(A)	Hi: 38	Me: 31 Lo: 2	24 ULo: 19	43			
			Heating	1 1	Hi: 38	Me: 33 Lo: 2	5 ULo: 19	45			
	Silent mode so							Cooling:33 / I	leating:38		
Exterior di	mensions (Heig	ght x Width	x Depth)	mm		305 x 920 x 2	220	640 x 800(+	71) x 290		
Exterior ap	opearance				Fine snov	v (8.0Y 9.3/0.1	), (RAL:9003)	Stucco	white		
(Equivaler	nt color)					0PB 2.44/0.25		Munsell: ( 4.2Y 7.5	/1.1 ), RAL:7004		
Net weigh				kg		13		43.			
Compress	or type & Quan	tity				-		RMT5111SWE3( Twi	n rotary type) x 1		
Compress	or motor (Starti	ng method	)	kW		-		0.75 ( Inverte	er driven)		
Refrigerar	it oil (Amount, t	ype)		ł		-		0.35 ( DIAMOND F	REEZE MB75)		
Refrigerar	it (Type, amou	nt, pre-cha	rge length)	kg	R3	2 1.20 in outd	oor unit (Incl. th	ne amount for the pipi	ng of 15m )		
Heat exch	anger				Louver f	fins & inner gro	oved tubing	M fins & inner g	rooved tubing		
Refrigerar	it control					Capillary tubes + Electronic expansion valve					
Fan type &	& Quantity					Tangential fan	i x 1	Propeller	fan x 1		
Fan motor	(Starting method	od)		W		42 x1 (Direct d	rive)	34 x1 (Dire	ct drive)		
Air flow			Cooling	3, .	Hi: 11.3	Me: 9.1 Lo:	6.0 ULo: 5.0	31.	0		
All IIOW			Heating	m³/min	Hi: 12.2	Me: 10.3 Lo:	7.2 ULo: 5.4	31.	C		
Available e	external static p	ressure		Pa		0		0			
Outside ai	r intake					Not possibl	е	-			
Air filter, C	uality / Quantity	у			Polypro	pylene net (Wa	ashable ) x 2	-			
Shock & v	ibration absorb	er			Rubb	er sleeve (for f	an motor)	Rubber sleeve (for fan r	notor & compressor		
Electric he	ater					-		-			
Operation	Remote contro	bl					Wireless-re	mote control			
control	Room tempera	ature contro	ol				Microcomput	er thermostat			
CONTION	Operation disp	lay				RUN:	Green , TIMEF	R: Yellow , ECO: Blue			
						Compresso	r overheat protec	ction, Overcurrent protect	ion,		
Safety equ	uipments				Frost p	protection, Serial	signal error prote	ection, Indoor fan motor	error protection,		
					Heating	g overload protec	ction( High press	ure control ), Cooling ove	rload protection		
	Refrigerant pip	oing size ( (	D.D)	mm		Liquid line:	$\phi 6.35 (1/4")$	Gas line: <i>ф</i> 9.52 ( 3	3/8")		
	Connecting me	ethod				Flare connect	tion	Flare con	nection		
Install-ti-	Attached lengt	h of piping		m	Liquid I	ine : 0.55 / Ga	s line : 0.48	-			
Installation data	Insulation for p							ides ), independent			
udia	Refrigerant lin	e (one wa	y) length	m			Ma	x.25			
	Vertical height di			m	Max	k.15 ( Outdoor	unit is higher)	/ Max.15 ( Outdoor ur	nit is lower)		
	Drain hose				Hos	e connectable	(VP16)	Hole $\phi$ 20	) x 5 pcs		
Drain pum	p, max lift heigl	ht		mm		-		-			
	nded breaker s			Α			1	6			
	cked rotor amp			А				.5			
	ecting wires		Core number		1.5mr	n <sup>2</sup> x 4 cores ( Inc	luding earth cabl	e) / Terminal block ( Scr	ew fixing type)		
IP number	0					IPX0		IPX			
	accessories				Mounting	kit, Clean filter ( Al	lergen clear filter x	1, Photocatalytic washable	deodorizing filter x 1)		
Option pa						•	Interface kit (		. ,		
Notes	(1) The data a	re measure	ed at the follow	ing con	ditions.		(	ength is 5m.			
	Item		air temperature			temperature			1		
	Operation	DB	WB		DB	WB	1 <sup>s</sup>	tandards			
	Cooling	27°C	19°C		35°C	24°C	IS	O5151-T1	1		
	Heating	20°C			7°C	6°C		O5151-H1	1		
	Heating (H2)	20°C	-		2°C	1°C		O5151-H2	1		
	(2) This air-cor			and tes					1		
								ues are somewhat			
	(3) Sound leve	I indicates	the value in ar	n anech	oic chambe	er. During oper	ation these val	ues are somewhat			

(3) Sound level indicates the value in an anechoic chamber. During higher due to ambient conditions.(4) Select the breaker size according to the own national standard.

1			Model		SRK25Z	ZSX-WB			
Item				Indoor unit SRK25	5ZSX-WB	Outdoor unit SRC25ZSX-W			
Power sou	urce					, 50Hz / 220V, 60Hz			
	Nominal cooling capac		kW		2.5 ( 0.9(Min.)	) - 3.8 (Max.))			
	Nominal heating capa	city (range)	kW		3.2 ( 0.8(Min.)	) - 6.0 (Max.))			
	Heating capacity (H2)		kW						
		Cooling		0.44 ( 0.16 - 0.91 )					
	Power consumption	Heating	kW	0.59 ( 0.14 - 1.54 )					
		Heating (H2)		_					
	Max power consumpti	on		1.92					
	Running current	Cooling		2.5	5/2.4/2.3 (2	220/ 230/ 240V)			
	Ű	Heating	Α	3.2	(	220/ 230/ 240V)			
Operation	Inrush current, max cu				3.0 N	Max. 9			
data	Power factor	Cooling	%		8	0			
		Heating	70		8	5			
	EER	Cooling			5.6	68			
	COP	Heating			5.4	42			
	001	Heating (H2)				-			
	Sound power level	Cooling		55		57			
	Sound power level	Heating		56		58			
	Sound pressure level	Cooling	dB(A)	Hi: 39 Me: 33 Lo: 25	5 ULo: 19	44			
	Sound pressure level	Heating		Hi: 40 Me: 34 Lo: 27	7 ULo: 19	45			
	Silent mode sound pre	ssure level		-		Cooling:35 / Heating:39			
Exterior di	mensions (Height x Wi	dth x Depth)	mm	305 x 920 x 22	20	640 x 800(+71) x 290			
Exterior ar	ppearance	<u> </u>		Fine snow (8.0Y 9.3/0.1),	, (RAL:9003)	Stucco white			
Equivalen	nt color)			Black (4.0PB 2.44/0.25),		Munsell: ( 4.2Y 7.5/1.1 ), RAL: 7004			
Net weight	t		kg	13		43.0			
Compress	or type & Quantity			-		RMT5111SWE3(Twin rotary type) x 1			
Compress	or motor (Starting meth	od)	kW	-		0.75 (Inverter driven)			
Refrigeran	nt oil (Amount, type)		ł	-		0.35 ( DIAMOND FREEZE MB75 )			
Refrigeran	nt (Type, amount, pre-c	harge length)	kg	R32 1.20 in outdo	or unit (Incl. th	ne amount for the piping of 15m )			
leat excha				Louver fins & inner groo		M fins & inner grooved tubing			
Refrigeran	nt control			Capillary	Capillary tubes + Electronic expansion valve				
Fan type 8				Tangential fan	Propeller fan x 1				
	(Starting method)		W	42 x1 (Direct dri		34 x1 (Direct drive)			
	()	Cooling	2	Hi: 12.2 Me: 10.0 Lo: 6	/	31.0			
Air flow		Heating	m³/min	Hi: 12.8 Me: 11.0 Lo: 7		31.0			
Available e	external static pressure		Ра	0		0			
Outside air				Not possible		-			
Air filter. Q	Quality / Quantity			Polypropylene net ( Wa		-			
	ibration absorber			Rubber sleeve (for fa		Rubber sleeve (for fan motor & compresso			
Electric he	eater			-	/	-			
	Remote control				Wireless-rer	note control			
		atrol		Wireless-remote control Microcomputer thermostat					
	Room temperature co			RUN: Green , TIMER: Yellow , ECO: Blue					
	Room temperature co Operation display	101		RUN: G					
	Room temperature co Operation display				Green , TIMER				
control	Operation display			Compressor	Green , TIMEF	R: Yellow , ECO: Blue			
control	Operation display			Compressor Frost protection, Serial s	Green , TIMER overheat protec signal error prote	R: Yellow , ECO: Blue tion, Overcurrent protection, ection, Indoor fan motor error protection,			
control	Operation display		mm	Compressor Frost protection, Serial s Heating overload protecti	Green , TIMER overheat protec signal error prote tion( High pressu	R: Yellow , ECO: Blue ttion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection			
control	Operation display uipments Refrigerant piping size		mm	Compressor Frost protection, Serial s Heating overload protecti Liquid line: q	Green , TIMER overheat protec signal error protec tion( High pressu $\phi$ 6.35 ( 1/4" )	R: Yellow , ECO: Blue ttion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 9.52 ( 3/8" )			
Safety equ	Operation display uipments Refrigerant piping size Connecting method	: ( O.D )		Compressor Frost protection, Serial s Heating overload protecti Liquid line: g Flare connectio	Green , TIMER overheat protec signal error protec tion(High pressu $\phi$ 6.35 (1/4") on	R: Yellow , ECO: Blue ttion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection			
safety equ	Operation display uipments Refrigerant piping size Connecting method Attached length of pip	: ( O.D )	mm	Compressor Frost protection, Serial s Heating overload protecti Liquid line: q Flare connectio Liquid line : 0.55 / Gas	Green , TIMER overheat protect signal error protection (High pressu $\phi$ 6.35 (1/4") on line : 0.48	R: Yellow , ECO: Blue ttion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 9.52 ( 3/8" ) Flare connection -			
safety equ	Operation display upments Refrigerant piping size Connecting method Attached length of pip Insulation for piping	: ( O.D ) ng	m	Compressor Frost protection, Serial s Heating overload protecti Liquid line: q Flare connectio Liquid line : 0.55 / Gas	Green , TIMEF overheat protec signal error protec tion( High pressu $\phi$ 6.35 ( 1/4" ) on line : 0.48 essary ( Both si	R: Yellow , ECO: Blue ttion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 9.52 ( 3/8" ) Flare connection - ides ), independent			
safety equ	Operation display upments Refrigerant piping size Connecting method Attached length of pip Insulation for piping Refrigerant line (one of	: ( O.D ) ng way) length	m m	Compressor Frost protection, Serial s Heating overload protecti Liquid line: g Flare connectio Liquid line : 0.55 / Gas Nece	Green , TIMEF overheat protec signal error protec tion( High pressu \$\$6.35 ( 1/4" ) on Line : 0.48 essary ( Both si Max	R: Yellow , ECO: Blue ttion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 9.52 ( 3/8" ) Flare connection - ides ), independent x.25			
safety equ	Operation display upments Refrigerant piping size Connecting method Attached length of pip Insulation for piping Refrigerant line (one v Vertical height diff. betwee	: ( O.D ) ng way) length	m	Compressor Frost protection, Serial s Heating overload protecti Liquid line: g Flare connectio Liquid line : 0.55 / Gas Nece Max.15 ( Outdoor u	Green , TIMEF overheat protec signal error protec tion(High pressu $\phi$ 6.35 (1/4") on tine : 0.48 essary (Both si Max unit is higher )	R: Yellow , ECO: Blue tion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 9.52 ( 3/8" ) Flare connection - ides ), independent x.25 / Max.15 ( Outdoor unit is lower )			
Safety equ nstallation data	Operation display uipments Refrigerant piping size Connecting method Attached length of pip Insulation for piping Refrigerant line (one v Vertical height diff. betwe Drain hose	: ( O.D ) ng way) length	m m m	Compressor Frost protection, Serial s Heating overload protecti Liquid line: g Flare connectio Liquid line : 0.55 / Gas Nece	Green , TIMEF overheat protec signal error protec tion(High pressu $\phi$ 6.35 (1/4") on tine : 0.48 essary (Both si Max unit is higher )	R: Yellow , ECO: Blue ttion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 9.52 ( 3/8" ) Flare connection - ides ), independent x.25 / Max.15 ( Outdoor unit is lower ) Hole $\phi$ 20 x 5 pcs			
Safety equ nstallation data Drain pum	Operation display upments Refrigerant piping size Connecting method Attached length of pip Insulation for piping Refrigerant line (one v Vertical height diff. betwe Drain hose	: ( O.D ) ng way) length	m m m mm	Compressor Frost protection, Serial s Heating overload protecti Liquid line: g Flare connectio Liquid line : 0.55 / Gas Nece Max.15 ( Outdoor u	Green , TIMEF overheat protec signal error protec tion( High pressu \$\$6.35 ( 1/4" ) on line : 0.48 essary ( Both si Max unit is higher ) VP16 )	R: Yellow , ECO: Blue ttion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 9.52 ( 3/8" ) Flare connection - ides ), independent x.25 / Max.15 ( Outdoor unit is lower ) Hole $\phi$ 20 x 5 pcs -			
Safety equ nstallation data Drain pum Recomme	Operation display upments Refrigerant piping size Connecting method Attached length of pip Insulation for piping Refrigerant line (one v Vertical height diff. betwe Drain hose p, max lift height ended breaker size	: ( O.D ) ng way) length	m m m mm A	Compressor Frost protection, Serial s Heating overload protecti Liquid line: g Flare connectio Liquid line : 0.55 / Gas Nece Max.15 ( Outdoor u	Green , TIMEF overheat protec signal error protec tion( High pressu \$\$6.35 ( 1/4" ) on tine : 0.48 essary ( Both si Max unit is higher ) VP16 )	R: Yellow , ECO: Blue ttion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 9.52 ( 3/8" ) Flare connection - ides ), independent x.25 / Max.15 ( Outdoor unit is lower ) Hole $\phi$ 20 x 5 pcs - 6			
Safety equ nstallation data Drain pum Recomme R.A. (Loo	Operation display uipments Refrigerant piping size Connecting method Attached length of pip Insulation for piping Refrigerant line (one v Vertical height diff. betwe Drain hose p, max lift height inded breaker size cked rotor ampere)	: ( O.D ) ng way) length en O.U. and I.U.	m m m mm	Compressor Frost protection, Serial s Heating overload protecti Liquid line: g Flare connectio Liquid line : 0.55 / Gas Nece Max.15 ( Outdoor u Hose connectable (	Green , TIMEF overheat protec signal error protec tion( High pressu \$\$6.35 ( 1/4" ) on tine : 0.48 essary ( Both si Max unit is higher ) VP16 )	R: Yellow , ECO: Blue ttion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 9.52 ( 3/8" ) Flare connection - ides ), independent x.25 / Max.15 ( Outdoor unit is lower ) Hole $\phi$ 20 x 5 pcs - 6 .0			
Safety equ Installation lata Drain pum Recomme R.A. (Loo Interconne	Operation display uipments Refrigerant piping size Connecting method Attached length of pip Insulation for piping Refrigerant line (one v Vertical height diff. betwe Drain hose p, max lift height ended breaker size cked rotor ampere) ecting wires	: ( O.D ) ng way) length	m m m mm A	Compressor Frost protection, Serial s Heating overload protecti Liquid line: g Flare connectio Liquid line : 0.55 / Gas Nece Max.15 ( Outdoor u Hose connectable ( - 1.5mm <sup>2</sup> x 4 cores ( Inclu	Green , TIMEF overheat protec signal error protec tion( High pressu \$\$6.35 ( 1/4" ) on tine : 0.48 essary ( Both si Max unit is higher ) VP16 )	R: Yellow , ECO: Blue ttion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 9.52 ( 3/8" ) Flare connection - ides ), independent x.25 / Max.15 ( Outdoor unit is lower ) Hole $\phi$ 20 x 5 pcs - 6 .0 e ) / Terminal block ( Screw fixing type )			
Safety equ Installation lata Drain pum Recomme R.A. (Loo Interconne P number	Operation display uipments Refrigerant piping size Connecting method Attached length of pip Insulation for piping Refrigerant line (one v Vertical height diff. betwe Drain hose p, max lift height ended breaker size cked rotor ampere) ecting wires	: ( O.D ) ng way) length en O.U. and I.U.	m m m mm A	Compressor Frost protection, Serial s Heating overload protecti Liquid line: g Flare connectio Liquid line : 0.55 / Gas Nece Max.15 ( Outdoor u Hose connectable ( - 1.5mm <sup>2</sup> x 4 cores ( Inclu IPX0	Green , TIMEF overheat protec signal error protec tion( High pressu ¢6.35 ( 1/4" ) on tine : 0.48 essary ( Both si Max unit is higher ) / VP16 ) 1 3. uding earth cable	R: Yellow , ECO: Blue ttion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi 9.52$ ( $3/8"$ ) Flare connection - ides ), independent x.25 / Max.15 ( Outdoor unit is lower ) Hole $\phi 20  ext{ x 5 pcs}$ - 6 .0 e ) / Terminal block ( Screw fixing type ) IPX4			
Safety equ Installation Jata Drain pum Recomme R.A. (Loo nterconne P number Standard a	Operation display uipments Refrigerant piping size Connecting method Attached length of pip Insulation for piping Refrigerant line (one v Vertical height diff. betwe Drain hose p, max lift height ended breaker size cked rotor ampere) ecting wires Size	: ( O.D ) ng way) length en O.U. and I.U.	m m m mm A	Compressor Frost protection, Serial s Heating overload protecti Liquid line: @ Flare connectio Liquid line : 0.55 / Gas Nece Max.15 ( Outdoor u Hose connectable ( - 1.5mm <sup>2</sup> x 4 cores ( Inclu IPX0 Mounting kit, Clean filter ( Alle	Green , TIMEF overheat protec signal error protec tion(High pressu $\phi 6.35 (1/4")$ on line : 0.48 essary (Both si Max unit is higher) VP16)	R: Yellow , ECO: Blue ttion, Overcurrent protection, ection, Indoor fan motor error protection Gas line: $\phi$ 9.52 ( 3/8" ) Flare connection - ides ), independent x.25 / Max.15 ( Outdoor unit is lower ) Hole $\phi$ 20 x 5 pcs - 6 .0 e ) / Terminal block ( Screw fixing type ) IPX4 1, Photocatalytic washable deodorizing filter x 1			
Safety equ Installation Jata Drain pum Recomme I.R.A. (Loo Interconne P number Standard a Option par	Operation display uipments Refrigerant piping size Connecting method Attached length of pip Insulation for piping Refrigerant line (one v Vertical height diff. betwe Drain hose p, max lift height ended breaker size cked rotor ampere) ecting wires Size raccessories	e ( O.D ) ng way) length en O.U. and I.U. e x Core number	m m m A A	Compressor Frost protection, Serial s Heating overload protecti Liquid line: @ Flare connectio Liquid line : 0.55 / Gas Nece Max.15 ( Outdoor u Hose connectable ( - 1.5mm <sup>2</sup> x 4 cores ( Inclu IPX0 Mounting kit, Clean filter ( Alle	Green , TIMEF overheat protec signal error protec tion( High pressu \$\$6.35 ( 1/4" ) on tine : 0.48 essary ( Both si Max unit is higher ) VP16 ) 1 3. uding earth cable ergen clear filter x Interface kit ( \$	R: Yellow , ECO: Blue ttion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi 9.52$ ( $3/8"$ ) Flare connection - ides ), independent x.25 / Max.15 ( Outdoor unit is lower ) Hole $\phi 20 \times 5$ pcs - 6 .0 e ) / Terminal block ( Screw fixing type ) IPX4 1, Photocatalytic washable deodorizing filter x 1 SC-BIKN2-E )			
Safety equ Safety equ Installation Jata Drain pum Recomme R.A. (Loo nterconne P number Standard a	Operation display uipments Refrigerant piping size Connecting method Attached length of pip Insulation for piping Refrigerant line (one v Vertical height diff. betwe Drain hose p, max lift height ended breaker size cked rotor ampere) ecting wires Size raccessories rts (1) The data are meas	e ( O.D ) ng way) length en O.U. and I.U. e x Core number ured at the follow	m m m A A	Compressor Frost protection, Serial s Heating overload protecti Liquid line: @ Flare connectio Liquid line : 0.55 / Gas Nece Max.15 ( Outdoor u Hose connectable ( - 1.5mm <sup>2</sup> x 4 cores ( Inclu IPX0 Mounting kit, Clean filter ( Alle	Green , TIMEF overheat protec signal error protec tion( High pressu \$\$6.35 ( 1/4" ) on tine : 0.48 essary ( Both si Max unit is higher ) VP16 ) 1 3. uding earth cable ergen clear filter x Interface kit ( \$	R: Yellow , ECO: Blue ttion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi 9.52$ ( $3/8"$ ) Flare connection - ides ), independent x.25 / Max.15 ( Outdoor unit is lower ) Hole $\phi 20  ext{ x 5 pcs}$ - 6 .0 e ) / Terminal block ( Screw fixing type ) IPX4 1, Photocatalytic washable deodorizing filter x 1			
Safety equ Installation data Drain pum Recomme L.R.A. (Loo Interconne IP number Standard a Option par	Operation display uipments Refrigerant piping size Connecting method Attached length of pip Insulation for piping Refrigerant line (one victure) Vertical height diff. betwee Drain hose p, max lift height ended breaker size cked rotor ampere) ecting wires Size f accessories rts (1) The data are meas	e ( O.D ) ng way) length en O.U. and I.U. e x Core number ured at the follow or air temperature	m m m A A	Compressor Frost protection, Serial s Heating overload protecti Liquid line: @ Flare connectio Liquid line : 0.55 / Gas Nece Max.15 ( Outdoor u Hose connectable ( 1.5mm <sup>2</sup> x 4 cores ( Inclu IPX0 Mounting kit, Clean filter ( Alle ditions.	Green , TIMEF overheat protec signal error protec signal error protec tion(High pressu \$\$6.35 (1/4") on til ine : 0.48 essary (Both si Max mat is higher) / VP16) 11 3. uding earth cable ergen clear filter x Interface kit (S The pipe le	R: Yellow , ECO: Blue ttion, Overcurrent protection, ection, Indoor fan motor error protection Gas line: $\phi$ 9.52 ( 3/8" ) Flare connection - ides ), independent x.25 / Max.15 ( Outdoor unit is lower ) Hole $\phi$ 20 x 5 pcs - 6 .0 e ) / Terminal block ( Screw fixing type ) IPX4 1, Photocatalytic washable deodorizing filter x 1 SC-BIKN2-E )			
Drain pum Recomme L.R.A. (Loo Interconne IP number Standard a Option par	Operation display Jupments Refrigerant piping size Connecting method Attached length of pip Insulation for piping Refrigerant line (one) Vertical height diff. betwee Drain hose p, max lift height ended breaker size cked rotor ampere) ecting wires Size f accessories rts (1) The data are meas Operation DE	e ( O.D ) ng way) length en O.U. and I.U. e x Core number ured at the follow or air temperature WB	m m m A A	Compressor Frost protection, Serial s Heating overload protecti Liquid line: <i>q</i> Flare connectio Liquid line : 0.55 / Gas Nece Max.15 ( Outdoor u Hose connectable ( - - 1.5mm <sup>2</sup> x 4 cores ( Inclu IPX0 Mounting kit, Clean filter ( Alle ditions. Dutdoor air temperature DB WB	Green , TIMEF overheat protec signal error protec signal error protec ion( High pressu \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	R: Yellow , ECO: Blue ttion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 9.52 ( 3/8" ) Flare connection - ides ), independent K.25 / Max.15 ( Outdoor unit is lower ) Hole $\phi$ 20 x 5 pcs - 6 .0 e ) / Terminal block ( Screw fixing type ) IPX4 1, Photocatalytic washable deodorizing filter x 1 SC-BIKN2-E ) ength is 5m. tandards			
Safety equ Installation data Drain pum Recomme L.R.A. (Loo Interconne IP number Standard a Option par	Operation display Jupments Refrigerant piping size Connecting method Attached length of pip Insulation for piping Refrigerant line (one v Vertical height diff. betwee Drain hose pmax lift height ended breaker size cked rotor ampere) extended breaker size cked rotor ampere) accessories rts (1) The data are meas Operation DE Cooling 27°	e ( O.D ) ng way) length en O.U. and I.U. e x Core number ured at the follow or air temperature B WB C 19°C	m m m A A	Compressor Frost protection, Serial s Heating overload protecti Liquid line: Q Flare connectio Liquid line : 0.55 / Gas Nece: Max.15 ( Outdoor u Hose connectable ( - 1.5mm <sup>2</sup> x 4 cores ( Inclu IPX0 Mounting kit, Clean filter ( Alle ditions. Dutdoor air temperature DB WB 35°C 24°C	Green , TIMEF overheat protec signal error protec signal error protec ion( High pressu \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	R: Yellow , ECO: Blue ttion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 9.52 ( 3/8" ) Flare connection - ides ), independent k.25 / Max.15 ( Outdoor unit is lower ) Hole $\phi$ 20 x 5 pcs - 6 0 e ) / Terminal block ( Screw fixing type ) IPX4 1, Photocatalytic washable deodorizing filter x 1 SC-BIKN2-E ) ength is 5m. tandards O5151-T1			
Safety equ Installation data Drain pum Recomme L.R.A. (Loo Interconne IP number Standard a Option par	Operation display         uipments         Refrigerant piping size         Connecting method         Attached length of pip         Insulation for piping         Refrigerant line (one voltation for piping         Nettical height diff. betwee         Drain hose         up, max lift height         onded breaker size         cked rotor ampere)         accessories         rts         (1) The data are meas         Operation       DE         Cooling       27°         Heating       20°	a ( O.D ) ng way) length en O.U. and I.U. a x Core number ured at the follow or air temperature 3 WB C 19°C C -	m m m A A	Compressor Frost protection, Serial s Heating overload protecti Liquid line: Q Flare connectio Liquid line : 0.55 / Gas Nece: Max.15 ( Outdoor u Hose connectable ( - 1.5mm <sup>2</sup> x 4 cores ( Inclu IPX0 Mounting kit, Clean filter ( Alle ditions. Dutdoor air temperature DB WB 35°C 24°C 7°C 6°C	Green , TIMEF overheat protec signal error protec signal error protec signal error protec signal error protec (ion (High pressu \$6.35 (1/4") on line : 0.48 erssary (Both si Max Max Max Max Max Max Max Max Max Max	R: Yellow , ECO: Blue ttion, Overcurrent protection, ection, Indoor fan motor error protection Gas line: $\phi$ 9.52 ( 3/8" ) Flare connection - ides ), independent k.25 / Max.15 ( Outdoor unit is lower ) Hole $\phi$ 20 x 5 pcs - 6 0 e ) / Terminal block ( Screw fixing type ) IPX4 1, Photocatalytic washable deodorizing filter x 1 SC-BIKN2-E ) ength is 5m. tandards 05151-T1 05151-H1			
Safety equ Installation lata Drain pum Recomme I.R.A. (Loo Interconne P number Standard a Dption par	Operation display         uipments         Refrigerant piping size         Connecting method         Attached length of pip         Insulation for piping         Refrigerant line (one v         Vertical height diff. betwee         Drain hose         up, max lift height         extended breaker size         cked rotor ampere)         accessories         rts         (1) The data are meas         Operation       DE         Cooling       27°         Heating       20°	e ( O.D ) ng way) length en O.U. and I.U. e x Core number ured at the follow or air temperature 3 WB C 19°C C - C -	m m M A A A ing con	Compressor Frost protection, Serial s Heating overload protecti Liquid line: Q Flare connectio Liquid line : 0.55 / Gas Nece: Max.15 ( Outdoor u Hose connectable ( - 1.5mm <sup>2</sup> x 4 cores ( Inclu IPX0 Mounting kit, Clean filter ( Alle ditions. Dutdoor air temperature DB WB 35°C 24°C	Green , TIMEF overheat protec signal error protec signal error protec ion( High pressu \$\$000 (1/4") on line : 0.48 essary ( Both si Max max max max max max max max max max m	R: Yellow , ECO: Blue ttion, Overcurrent protection, action, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 9.52 ( 3/8" ) Flare connection - ides ), independent k.25 / Max.15 ( Outdoor unit is lower ) Hole $\phi$ 20 x 5 pcs - 6 0 e ) / Terminal block ( Screw fixing type ) IPX4 1, Photocatalytic washable deodorizing filter x 1 SC-BIKN2-E ) ength is 5m. tandards 05151-T1			

(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.

RWA000Z271

Itom			Model	SRK352	ZSX-WB				
Item				Indoor unit SRK35ZSX-WB	Outdoor unit SRC35ZSX-W				
Power sou					7, 50Hz / 220V, 60Hz				
	Nominal cooling capac		kW		) - 4.5 (Max.))				
	Nominal heating capac	city (range)	kW	4.3 ( 0.8(Min.	) - 6.8 (Max.))				
	Heating capacity (H2)	-	kW						
		Cooling		0.74 ( 0.16 - 1.27 )					
	Power consumption	Heating	kW	0.90 ( 0.14 - 1.87 )					
		Heating (H2)			-				
	Max power consumption	1			92				
	Running current	Cooling	А	3.7/3.5/3.4 (2	,				
Operation	Innuch ourrent movieu	Heating	A	4.4 / 4.3 / 4.1 (2	,				
Operation data	Inrush current, max cu	Cooling			4.3 Max. 9 91				
uala	Power factor	Heating	%		2				
	EER	Cooling			73				
		Heating			78				
	COP	Heating (H2)			-				
		Cooling		58	61				
	Sound power level	Heating		58	62				
		Cooling	dB(A)	Hi: 43 Me: 35 Lo: 26 ULo: 19	48				
	Sound pressure level	Heating	J. (, ()	Hi: 42 Me: 35 Lo: 28 ULo: 19	47				
	Silent mode sound pre	0		-	Cooling:38 / Heating:43				
Exterior div	mensions (Height x Wic		mm	305 x 920 x 220	640 x 800(+71) x 290				
Exterior ap				Fine snow (8.0Y 9.3/0.1), (RAL:9003)	Stucco white				
(Equivalen	1			Black (4.0PB 2.44/0.25), (RAL:9011)	Munsell: ( 4.2Y 7.5/1.1 ), RAL: 7004				
Net weight			kg	13	43.0				
9	or type & Quantity		Ng	-	RMT5111SWE3(Twin rotary type) x 1				
	or motor (Starting meth	od)	kW	-	0.90 (Inverter driven)				
	it oil (Amount, type)	64)	ł		0.35 ( DIAMOND FREEZE MB75 )				
	it (Type, amount, pre-c	harge length)	kg	R32 1.20 in outdoor unit (Incl. th					
Heat excha		narge longin/		Louver fins & inner grooved tubing	M fins & inner grooved tubing				
Refrigeran				Capillary tubes + Electronic expansion valve					
Fan type 8				Tangential fan x 1	Propeller fan x 1				
	(Starting method)		W	42 x1 (Direct drive)	34 x1 (Direct drive)				
	(otarting motilou)	Cooling		Hi: 13.1 Me: 10.8 Lo: 7.3 ULo: 5.0	36.0				
Air flow		Heating	m³/min	Hi: 13.9 Me: 11.8 Lo: 8.6 ULo: 5.4	31.0				
Available e	external static pressure	riodang	Ра	0	0				
Outside air				Not possible	-				
	Quality / Quantity			Polypropylene net (Washable ) x 2					
	ibration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor & compressor				
Electric he				-	-				
	Remote control			Wireless-rei	mote control				
		trol							
Operation	Room temperature cor			Microcomputer thermostat					
Operation control	Room temperature cor		i						
Operation	Room temperature cor Operation display			RUN: Green , TIMER	R: Yellow , ECO: Blue				
control	Operation display			RUN: Green , TIMER Compressor overheat protect	R: Yellow , ECO: Blue tion, Overcurrent protection,				
Operation	Operation display			RUN: Green , TIMEF Compressor overheat protec Frost protection, Serial signal error prote	R: Yellow , ECO: Blue tion, Overcurrent protection, ection, Indoor fan motor error protection,				
control	Operation display		mm	RUN: Green , TIMEF Compressor overheat protec Frost protection, Serial signal error protection, Serial signal error protection, High press	R: Yellow , ECO: Blue tion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection				
control	Operation display lipments Refrigerant piping size		mm	RUN: Green , TIMEF Compressor overheat protec Frost protection, Serial signal error prote Heating overload protection( High press Liquid line: φ6.35 ( 1/4")	R: Yellow , ECO: Blue tion, Overcurrent protection, ection, Indoor fan motor error protection,				
Safety equ	Operation display lipments Refrigerant piping size Connecting method	( O.D )	mm	RUN: Green , TIMEF Compressor overheat protec Frost protection, Serial signal error prote Heating overload protection( High press Liquid line: \$\phi 6.35 (1/4") Flare connection	R: Yellow , ECO: Blue tion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 9.52 ( 3/8" )				
Safety equ	Operation display upments Refrigerant piping size Connecting method Attached length of pipi	( O.D )		RUN: Green , TIMEF         Compressor overheat protect         Frost protection, Serial signal error protection         Heating overload protection( High press         Liquid line: \$\$\phi\$6.35 (1/4")         Flare connection         Liquid line : 0.55 / Gas line : 0.48	R: Yellow , ECO: Blue tion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: φ9.52 ( 3/8" ) Flare connection				
Safety equ	Operation display ipments Refrigerant piping size Connecting method Attached length of pipin Insulation for piping	( O.D ) ng		RUN: Green , TIMEF         Compressor overheat protect         Frost protection, Serial signal error protection (High press)         Liquid line: \$\$\phi\$6.35 (1/4")         Flare connection         Liquid line : 0.55 / Gas line : 0.48         Necessary (Both s	R: Yellow , ECO: Blue tion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: φ9.52 ( 3/8" ) Flare connection - ides ), independent				
Safety equ	Operation display upments Refrigerant piping size Connecting method Attached length of piping Insulation for piping Refrigerant line (one v	(O.D) ng vay) length	m m	RUN: Green , TIMEF         Compressor overheat protect         Frost protection, Serial signal error protection (High press)         Liquid line: \$\$\phi\$6.35 (1/4")         Flare connection         Liquid line : 0.55 / Gas line : 0.48         Necessary (Both s         Ma:	R: Yellow , ECO: Blue tion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 9.52 ( 3/8" ) Flare connection - ides ), independent x.25				
Safety equ	Operation display upments Refrigerant piping size Connecting method Attached length of piping Insulation for piping Refrigerant line (one v Vertical height diff. between	(O.D) ng vay) length	m	RUN: Green , TIMEF         Compressor overheat protect         Frost protection, Serial signal error protection         Heating overload protection( High press         Liquid line: \$\$\phi\$6.35 (1/4")         Flare connection         Liquid line : 0.55 / Gas line : 0.48         Necessary (Both s         Max.15 (Outdoor unit is higher )	R: Yellow , ECO: Blue tion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 9.52 ( 3/8" ) Flare connection - ides ), independent c.25 / Max.15 ( Outdoor unit is lower )				
Safety equ	Operation display upments Refrigerant piping size Connecting method Attached length of piping Insulation for piping Refrigerant line (one v Vertical height diff. between Drain hose	(O.D) ng vay) length	m m m	RUN: Green , TIMEF         Compressor overheat protect         Frost protection, Serial signal error protection (High press)         Liquid line: \$\$\phi\$6.35 (1/4")         Flare connection         Liquid line : 0.55 / Gas line : 0.48         Necessary (Both s         Ma:	R: Yellow , ECO: Blue tion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 9.52 ( 3/8" ) Flare connection - ides ), independent x.25				
Safety equ Installation data	Operation display upments Refrigerant piping size Connecting method Attached length of piping Insulation for piping Refrigerant line (one v Vertical height diff. between Drain hose p, max lift height	(O.D) ng vay) length	m m m m	RUN: Green , TIMEF         Compressor overheat protect         Frost protection, Serial signal error protection (High press)         Liquid line: \$\$\phi\$6.35 (1/4")         Flare connection         Liquid line: 0.55 / Gas line : 0.48         Necessary (Both s         Max.15 (Outdoor unit is higher)         Hose connectable (VP16)	R: Yellow , ECO: Blue tion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi 9.52$ ( 3/8" ) Flare connection - ides ), independent k.25 / Max.15 ( Outdoor unit is lower ) Hole $\phi 20 \times 5$ pcs -				
Installation data	Operation display upments Refrigerant piping size Connecting method Attached length of piping Insulation for piping Refrigerant line (one v Vertical height diff. between Drain hose p, max lift height nded breaker size	(O.D) ng vay) length	m m m	RUN: Green , TIMEF         Compressor overheat protect         Frost protection, Serial signal error protection         Heating overload protection( High press         Liquid line: \$\$\phi\$.6.35 (1/4")         Flare connection         Liquid line : 0.55 / Gas line : 0.48         Necessary (Both s         Max.15 (Outdoor unit is higher )         Hose connectable (VP16 )	R: Yellow , ECO: Blue tion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi 9.52$ ( 3/8" ) Flare connection - ides ), independent k.25 / Max.15 ( Outdoor unit is lower ) Hole $\phi 20 \times 5$ pcs - 6				
Installation data Drain pum Recommen L.R.A. (Loo	Operation display ipments Refrigerant piping size Connecting method Attached length of piping Insulation for piping Refrigerant line (one v Vertical height diff. betwee Drain hose p, max lift height nded breaker size cked rotor ampere)	(O.D) ng vay) length en O.U. and I.U.	m m m m A	RUN: Green , TIMEF         Compressor overheat protect         Frost protection, Serial signal error protection (High press)         Liquid line: \$\$\phi\$6.35 (1/4")         Flare connection         Liquid line: 0.55 / Gas line : 0.48         Necessary (Both s         Max.15 (Outdoor unit is higher)         Hose connectable (VP16)	R: Yellow , ECO: Blue tion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi 9.52$ ( 3/8" ) Flare connection - ides ), independent x.25 / Max.15 ( Outdoor unit is lower ) Hole $\phi 20 \times 5$ pcs - 6 .3				
Installation data Drain pum Recommen L.R.A. (Loo Interconne	Operation display ipments Refrigerant piping size Connecting method Attached length of piping Refrigerant line (one v Vertical height diff. betwee Drain hose p, max lift height nded breaker size cked rotor ampere) ecting wires	(O.D) ng vay) length	m m m m A	RUN: Green , TIMEF         Compressor overheat protect         Frost protection, Serial signal error protection         Heating overload protection( High press)         Liquid line: \$\$\phi_6.35\$ (1/4")         Flare connection         Liquid line : 0.55 / Gas line : 0.48         Necessary (Both s         Max.15 (Outdoor unit is higher)         Hose connectable (VP16)         -         1.5mm <sup>2</sup> x 4 cores (Including earth cable)	R: Yellow , ECO: Blue         ttion, Overcurrent protection,         action, Indoor fan motor error protection         Gas line: φ9.52 ( 3/8" )         Flare connection         -         ides ), independent         k:25         / Max.15 ( Outdoor unit is lower )         Hole φ20 x 5 pcs         -         6         .3         e ) / Terminal block ( Screw fixing type )				
Installation data Drain pum Recommen L.R.A. (Loo Interconne IP number	Operation display upments Refrigerant piping size Connecting method Attached length of piping Refrigerant line (one v Vertical height diff. betwee Drain hose p, max lift height nded breaker size cked rotor ampere) ecting wires	(O.D) ng vay) length en O.U. and I.U.	m m m m A	RUN: Green , TIMEF         Compressor overheat protect         Frost protection, Serial signal error prote         Heating overload protection( High press)         Liquid line: \$\$\phi\$6.35 (1/4")         Flare connection         Liquid line : 0.55 / Gas line : 0.48         Necessary (Both s         Max.15 (Outdoor unit is higher)         Hose connectable (VP16)         -         1         4         1.5mm <sup>2</sup> x 4 cores (Including earth cable)	R: Yellow , ECO: Blue ttion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 9.52 ( 3/8" ) Flare connection - ides ), independent x.25 / Max.15 ( Outdoor unit is lower ) Hole $\phi$ 20 x 5 pcs - 6 3 e ) / Terminal block ( Screw fixing type ) IPX4				
Installation data Drain pum Recommen L.R.A. (Loo Interconne IP number Standard a	Operation display ipments Refrigerant piping size Connecting method Attached length of piping Refrigerant line (one v Vertical height diff. betwee Drain hose p, max lift height nded breaker size cked rotor ampere) ecting wires Size accessories	(O.D) ng vay) length en O.U. and I.U.	m m m m A	RUN: Green , TIMEF         Compressor overheat protect         Frost protection, Serial signal error prote         Heating overload protection( High press         Liquid line: \$\$\phi\$ 6.35 (1/4")         Flare connection         Liquid line : 0.55 / Gas line : 0.48         Necessary (Both s         Max.15 (Outdoor unit is higher)         Hose connectable (VP16)         -         1         1.5mm <sup>2</sup> x 4 cores (Including earth cable)         IPX0	R: Yellow , ECO: Blue ttion, Overcurrent protection, ection, Indoor fan motor error protection Gas line: $\phi$ 9.52 ( 3/8" ) Flare connection - ides ), independent x.25 / Max.15 ( Outdoor unit is lower ) Hole $\phi$ 20 x 5 pcs - 6 3 e ) / Terminal block ( Screw fixing type ) IPX4 1, Photocatalytic washable deodorizing filter x 1 )				
Installation data Drain pum Recommen L.R.A. (Loo Interconne IP number Standard a Option par	Operation display ipments Refrigerant piping size Connecting method Attached length of piping Refrigerant line (one v Vertical height diff. betwee Drain hose p, max lift height nded breaker size cked rotor ampere) ecting wires Size accessories rts	( O.D ) ng vay) length en O.U. and I.U. x Core number	m m m A A	RUN: Green , TIMEF         Compressor overheat protect         Frost protection, Serial signal error protection         Heating overload protection(High pressor         Liquid line: \$\$\phi\$6.35 (1/4")         Flare connection         Liquid line : 0.55 / Gas line : 0.48         Necessary (Both s         Max.15 (Outdoor unit is higher )         Hose connectable (VP16 )         1         1.5mm <sup>2</sup> x 4 cores (Including earth cable)         IPX0         Mounting kit, Clean filter (Allergen clear filter x         Interface kit (	R: Yellow , ECO: Blue ttion, Overcurrent protection, ection, Indoor fan motor error protection Gas line: $\phi$ 9.52 ( 3/8" ) Flare connection - ides ), independent x.25 / Max.15 ( Outdoor unit is lower ) Hole $\phi$ 20 x 5 pcs - 6 3 e ) / Terminal block ( Screw fixing type ) IPX4 1, Photocatalytic washable deodorizing filter x 1 ) SC-BIKN2-E )				
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Sound level indicates the value in an anechoic chamber. During operation these values are somewhat (, (4) Select the breaker size according to the own national standard.

RWA000Z271

14			Model		SRK502	ZSX-WB			
Item				Indoor unit SRK5	50ZSX-WB	Outdoor unit SRC50ZSX-W			
Power sou				1 Pha		, 50Hz / 220V, 60Hz			
	Nominal cooling capa		kW			) - 6.2 (Max.))			
	Nominal heating capa	city (range)	kW		6.0 ( 0.8(Min.	) - 8.2 (Max.))			
	Heating capacity (H2)	1	kW		<u> </u>				
		Cooling		1.24 (0.19 - 1.90)					
	Power consumption	Heating	kW	1.36 ( 0.20 - 2.46 )					
	M	Heating (H2)			-	-			
	Max power consumpti			<u>2.90</u> 5.7 / 5.4 / 5.2 (220/ 230/ 240V)					
	Running current	Cooling	А			220/ 230/ 240V) 220/ 230/ 240V)			
Docration	Inrush current, max cu	Heating	~	0		· · · · · · · · · · · · · · · · · · ·			
lata		Cooling		5.0 Max.15					
Jala	Power factor	Heating	%	99					
	EER	Cooling			-	03			
		Heating				41			
	COP	Heating (H2)				-			
		Cooling		59		63			
	Sound power level	Heating		62		61			
	Cound received in the	Cooling	dB(A)	Hi: 44 Me: 39 Lo: 3	1 ULo: 22	51			
	Sound pressure level	Heating		Hi: 47 Me: 41 Lo: 3		49			
	Silent mode sound pre		1	-	-	Cooling:42 / Heating:43			
	mensions (Height x Wi		mm	305 x 920 x 2	220	640 x 800(+71) x 290			
Exterior ap	pearance	· · ·		Fine snow (8.0Y 9.3/0.1)	), (RAL:9003)	Stucco white			
Equivalen	it color)			Black (4.0PB 2.44/0.25),	, (RAL:9011)	Munsell : ( 4.2Y 7.5/1.1 ), RAL:700			
Vet weight	t		kg	13		45			
Compresso	or type & Quantity			-		RMT5111SWE3( Twin rotary type ) x 1			
	or motor (Starting meth	nod)	kW	-		1.50 (Inverter driven)			
Refrigeran	t oil (Amount, type)		ł	-		0.45 ( DIAMOND FREEZE MB75 )			
Refrigeran	t (Type, amount, pre-	charge length)	kg			ne amount for the piping of 15m)			
leat excha	0				Louver fins & inner grooved tubing M fins & inner grooved				
Refrigeran					tronic expansion valve				
-an type &				Tangential fan		Propeller fan x 1			
an motor	(Starting method)		W	42 x1 (Direct d		34 x1 (Direct drive)			
Air flow		Cooling	m³/min	Hi: 14.3 Me: 12.4 Lo:		39.0			
-		Heating		Hi: 17.3 Me: 14.3 Lo:	9.8 ULo: 6.2	33.0			
	external static pressure		Ра	0		0			
Dutside air				Not possible		-			
	uality / Quantity			Polypropylene net (Wa		-			
				Rubber sleeve (for fa	an motor)	Rubber sleeve (for fan motor & compress			
Shock & vi	ibration absorber		1						
Shock & vi Electric he	ater			-	14/2	-			
Shock & vi Electric he	ater Remote control	-t		-	Wireless rer				
Shock & vi Electric he Operation	ater Remote control Room temperature co	ntrol		- 	Microcomput	er thermostat			
Shock & vi Electric he Operation	ater Remote control	ntrol			Microcomput Green, TIMEF	er thermostat R: Yellow , ECO: Blue			
Shock & vi Electric he Operation control	ater Remote control Room temperature co Operation display	ntrol		Compressor	Microcomput Green , TIMEF r overheat protec	er thermostat R: Yellow , ECO: Blue tion, Overcurrent protection,			
Shock & vi Electric he Operation control	ater Remote control Room temperature co Operation display	ntrol		Compressor Frost protection, Serial	Microcomput Green , TIMEF r overheat protect signal error protect	er thermostat R: Yellow , ECO: Blue ttion, Overcurrent protection, ection, Indoor fan motor error protection,			
Shock & vi Electric he Operation control Safety equ	ater Remote control Room temperature co Operation display ipments		mm	Compresson Frost protection, Serial Heating overload protec	Microcomput Green , TIMEF r overheat protec signal error prote stion( High pressu	er thermostat R: Yellow , ECO: Blue ttion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection			
Shock & vi Electric he Operation control Safety equ	ater Remote control Room temperature co Operation display ipments Refrigerant piping size		mm	Compresson Frost protection, Serial Heating overload protec Liquid line:	Microcomput Green , TIMEF r overheat protec signal error protection(High pressu $\phi$ 6.35 (1/4")	er thermostat R: Yellow , ECO: Blue ttion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 12.7 ( 1/2" )			
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Shock & vi Electric he Operation control Safety equ nstallation Jata	ater Remote control Room temperature co Operation display upments Refrigerant piping size Connecting method Attached length of pip Insulation for piping Refrigerant line (one	e ( O.D ) ing way) length	m	Compresson Frost protection, Serial Heating overload protec Liquid line: Flare connect Liquid line : 0.55 / Gas Nece	Microcomput Green , TIMEF r overheat protect signal error protection(High pressu $\phi 6.35 (1/4")$ ion s line : 0.48 essary (Both s Max	er thermostat R: Yellow , ECO: Blue ttion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 12.7 ( 1/2" ) Flare connection - ides ), independent x.30			
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Shock & vi Electric he Operation control Safety equ Asfety equ Asf	ater Remote control Room temperature co Operation display ipments Refrigerant piping size Connecting method Attached length of pip Insulation for piping Refrigerant line (one Vertical height diff. betwe Drain hose p, max lift height nded breaker size cked rotor ampere) cting wires Size accessories ts	e ( O.D ) ing way) length en O.U. and I.U. e x Core number	m m M A A	Compressor Frost protection, Serial Heating overload protec Liquid line: Flare connect Liquid line : 0.55 / Gas Nece Max.20 ( Outdoor of Hose connectable ( 	Microcomput Green , TIMEF r overheat protect signal error protection (High pressu $\phi 6.35 (1/4")$ ) ion s line : 0.48 essary (Both s Max unit is higher). (VP16) 2 1 luding earth cable lergen clear filter x Interface kit (	er thermostat R: Yellow , ECO: Blue ttion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 12.7 ( 1/2" ) Flare connection - ides ), independent x.30 / Max.20 ( Outdoor unit is lower ) Hole $\phi$ 20 x 5 pcs - 0 .0 e ) / Terminal block ( Screw fixing type ) IPX4 1, Photocatalytic washable deodorizing filter x 1			
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Shock & vi Electric he Operation control Safety equ Asafety equ Asafety equ Drain pum Recommen R.A. (Loo nterconne P number Standard a Option par Notes	ater Remote control Room temperature co Operation display ipments Refrigerant piping size Connecting method Attached length of pip Insulation for piping Refrigerant line (one Vertical height diff. betwe Drain hose p, max lift height nded breaker size cked rotor ampere) cting wires Size accessories ts (1) The data are meas	e ( O.D ) ing way) length en O.U. and I.U. e x Core number sured at the follow or air temperature	m m m A A A ing con	Compressor Frost protection, Serial Heating overload protec Liquid line: Flare connect Liquid line : 0.55 / Gas Nece Max.20 ( Outdoor of Hose connectable ( - 1.5mm <sup>2</sup> x 4 cores ( Incl IPX0 Mounting kit, Clean filter ( All ditions.	Microcomput Green , TIMEF r overheat protec signal error prote ttion( High pressu $\phi$ 6.35 ( 1/4" ) ion s line : 0.48 essary ( Both s Max unit is higher ) ( VP16 ) 2 1 luding earth cable lergen clear filter x Interface kit ( The pipe le	er thermostat R: Yellow , ECO: Blue ttion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 12.7 ( 1/2" ) Flare connection - ides ), independent x.30 / Max.20 ( Outdoor unit is lower ) Hole $\phi$ 20 x 5 pcs - 0 .0 e ) / Terminal block ( Screw fixing type ) IPX4 1, Photocatalytic washable deodorizing filter x 1 SC-BIKN2-E )			
Shock & vi Electric he Operation control Safety equ safety equ nstallation data Drain pum Recommen L.R.A. (Loo Interconne P number Standard a Option par Notes	ater Remote control Room temperature co Operation display  ipments Refrigerant piping size Connecting method Attached length of pip Insulation for piping Refrigerant line (one Vertical height diff. betwe Drain hose p, max lift height nded breaker size cked rotor ampere) ccting wires Size accessories ts (1) The data are meas	e ( O.D ) ing way) length en O.U. and I.U. e x Core number sured at the follow or air temperature 3 WB	m m m A A A ing con	Compressor Frost protection, Serial Heating overload protec Liquid line: Flare connect Liquid line : 0.55 / Gas Nece Max.20 ( Outdoor of Hose connectable ( 1.5mm <sup>2</sup> x 4 cores ( Incl IPX0 Mounting kit, Clean filter ( All ditions.	Microcomput         Green , TIMEF         r overheat protec         signal error protection         tion (High pressure $\phi$ 6.35 (1/4")         tion (Sine : 0.48         essary (Both s         Max         unit is higher )         (VP16)         2         5         luding earth cable         lergen clear filter x         Interface kit (         The pipe le         S	er thermostat R: Yellow , ECO: Blue tion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 12.7 ( 1/2" ) Flare connection - ides ), independent k.30 / Max.20 ( Outdoor unit is lower ) Hole $\phi$ 20 x 5 pcs - 0 0 0 e ) / Terminal block ( Screw fixing type ) IPX4 1, Photocatalytic washable deodorizing filter x 1 SC-BIKN2-E ) ength is 5m.			
Shock & vi Electric he Operation control Safety equ Asafety equ Asafety equ Drain pum Recommen R.A. (Loo nterconne P number Standard a Option par Notes	ater Remote control Room temperature co Operation display  ipments Refrigerant piping size Connecting method Attached length of pip Insulation for piping Refrigerant line (one Vertical height diff. betwe Drain hose p, max lift height nded breaker size cked rotor ampere) ecting wires Size accessories ts (1) The data are meas Item Indo Operation Difference	e ( O.D ) ing way) length en O.U. and I.U. e x Core number sured at the follow or air temperature 3 WB C 19°C	m m m A A A ing con	Compressor Frost protection, Serial Heating overload protec Liquid line: Flare connect Liquid line : 0.55 / Gas Nece Max.20 ( Outdoor i Hose connectable ( - 1.5mm <sup>2</sup> x 4 cores ( Incl IPX0 Mounting kit, Clean filter ( All ditions. Dutdoor air temperature DB WB	Microcomput         Green , TIMEF         r overheat protect         signal error protect         signal error protect $\phi$ 6.35 (1/4")         ion         s line : 0.48         essary ( Both s         Max         unit is higher )         (VP16)         2         5         luding earth cable         lergen clear filter x         Interface kit ( The pipe le         S         IS	er thermostat R: Yellow , ECO: Blue tion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 12.7 ( 1/2") Flare connection - ides ), independent x.30 / Max.20 ( Outdoor unit is lower ) Hole $\phi$ 20 x 5 pcs - 0 .0 e ) / Terminal block ( Screw fixing type ) IPX4 1, Photocatalytic washable deodorizing filter x 1 SC-BIKN2-E ) ength is 5m. tandards			
Shock & vi Electric he Operation control Safety equ Asafety equ Asafety equ Drain pum Recommen R.A. (Loo nterconne P number Standard a Option par Notes	ater Remote control Room temperature co Operation display  ipments Refrigerant piping size Connecting method Attached length of pip Insulation for piping Refrigerant line (one Vertical height diff. betwee Drain hose p, max lift height nded breaker size cked rotor ampere) accessories ts (1) The data are meas Item Indo Operation Dif Cooling 27°	e ( O.D ) ing way) length en O.U. and I.U. e x Core number sured at the follow or air temperature 3 WB C 19°C C -	m m m A A A ing con	Compressor Frost protection, Serial Heating overload protec Liquid line: Flare connect Liquid line : 0.55 / Gas Nece Max.20 ( Outdoor n Hose connectable ( - 1.5mm <sup>2</sup> x 4 cores ( Incl IPX0 Mounting kit, Clean filter ( All ditions. Dutdoor air temperature DB WB 35°C 24°C	Microcomput           Green , TIMEF           r overheat protect           signal error protect           signal error protect           \$\phi6.35 (1/4")           ion           s line : 0.48           essary ( Both s           Max           unit is higher )           (VP16)           2           5           luding earth cable           lergen clear filter x           Interface kit ( C           The pipe le           S           IS           IS	er thermostat R: Yellow , ECO: Blue tion, Overcurrent protection, ection, Indoor fan motor error protection, ure control ), Cooling overload protection Gas line: $\phi$ 12.7 ( 1/2" ) Flare connection - ides ), independent K.30 / Max.20 ( Outdoor unit is lower ) Hole $\phi$ 20 x 5 pcs - 0 0 0 0 0 0 e ) / Terminal block ( Screw fixing type ) IPX4 1, Photocatalytic washable deodorizing filter x 1 SC-BIKN2-E ) ength is 5m. tandards 05151-T1			

(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.

RWA000Z271

				Model		SRK60ZSX-WB				
Item						or unit SRK6	0ZSX-WB	Outdoor unit SI	RC60ZSX-W	
Power sou	urce					1 Pha	se, 220 - 240V	/, 50Hz / 220V, 60Hz		
	Nominal coolin	g capacity	(range)	kW			6.1 ( 1.0(Min.	) - 6.9 (Max.))		
	Nominal heatin	ng capacity	(range)	kW			6.8 ( 0.8(Min.	) - 8.8 (Max.))		
	Heating capaci	ity (H2)		kW			-	_		
			Cooling				1.71 ( 0.1	9 - 2.50 )		
	Power consum		Heating	kW	1.65 ( 0.20 - 2.86 )					
			Heating (H2)	KVV			-	-		
	Max power cor	nsumption						90		
	Running currer	at	Cooling			7	.9/7.5/7.2 (2	220/ 230/ 240V)		
	Running curren	ii.	Heating	Α		7	.6/7.2/6.9 (2	220/ 230/ 240V)		
Operation	Inrush current,	max curre	ent				5.0 I	Max. 15		
data	Power factor		Cooling	%			g	9		
	FOWER IACION		Heating	/0			g	9		
	EER		Cooling				3.	57		
	COP		Heating				4.	12		
	COF		Heating (H2)				-	-		
	Cound now or l	aval	Cooling			62		65		
	Sound power le	evei	Heating	1		63		64		
	Cound		Cooling	dB(A)	Hi: 48	Me: 41 Lo: 3	3 ULo: 22	52		
	Sound pressur		Heating	1 `´	Hi: 47	Me: 42 Lo: 3		53		
	Silent mode so		-	1		-	-	Cooling:42 /		
Exterior di	imensions (Heig			mm		305 x 920 x 2	20	640 x 800(+		
	ppearance		/		Fine snow	v (8.0Y 9.3/0.1)		Stucco	/	
(Equivaler						0PB 2.44/0.25)		Munsell : ( 4.2Y 7.5		
Net weigh				kg	2.00A (-T.	13	, (	45	1	
	sor type & Quan	titv				-		RMT5111SWE3( Twi		
	or motor (Starti		)	kW		-		1.50 ( Invert		
•	nt oil (Amount, t	<u> </u>	)	ł		-		0.45 ( DIAMOND F	/	
	nt (Type, amour		rae length)	kg	D3	- 2 1 30 in outde	or unit (Incl. th	ne amount for the pipi		
Heat exch		n, pre-cha	ige lengtil)	Ng						
Refrigerar					LOUVEI	Louver fins & inner grooved tubing M fins & inner grooved tubin Capillary tubes + Electronic expansion valve				
<u> </u>						Tangential fan x 1 Propeller fan x 1				
Fan type 8	(Starting metho			W		42 x1 (Direct d		34 x1 (Dire		
Fan motor	(Starting metho		Caaling	vv		Me: 13.4 Lo: 8			,	
Air flow			Cooling	m <sup>3</sup> /min				41.5		
A			Heating	Da	HI: 17.8	Me: 13.7 Lo: 1	0.9 UL0: 6.2	39.0		
	external static p	ressure		Pa		0		0		
Outside ai						Not possible		-		
	Quality / Quantity					pylene net ( Wa		-		
	ibration absorbe	er			Rubb	er sleeve (for f	an motor)	Rubber sleeve (for fan i	notor & compressor	
Electric he	1					-		-		
Operation	Remote contro						Wireless rei			
control	Room tempera		ol					er thermostat		
	Operation disp	lay						R: Yellow , ECO: Blue		
								ction, Overcurrent protect		
Safety equ	uipments						•	ection, Indoor fan motor		
					Heatin			ure control ), Cooling ove	rload protection	
	Refrigerant pip	ing size ( C	D.D)	mm			φ6.35(1/4")	Gas line: $\phi$ 12.7 (	1/2" )	
	Connecting me	ethod				Flare connect	ion	Flare con	nection	
Inotaliatio	Attached lengt	h of piping		m	Liquid	line : 0.55 / Gas	s line : 0.48	-		
Installation data	Insulation for p	iping				Nece	essary ( Both s	ides ), independent		
GUIU	Refrigerant lin	e (one way	y) length	m			Ma	x.30		
	Vertical height di	ff. between	O.U. and I.U.	m	Ma	x.20 ( Outdoor		/ Max.20 ( Outdoor ur	nit is lower)	
	Drain hose					e connectable (	<u> </u>	Hole $\phi$ 20	,	
Drain pum	np, max lift heigh	nt		mm		-		-		
	ended breaker si			A	1		2	.0		
	cked rotor amp			A	1			.0		
	ecting wires		Core number	<u> </u>	1.5mr	$n^2 x 4 cores (lnc)$		e ) / Terminal block ( Sci	ew fixing type )	
IP number	0	JILO A		l	1.011	IPX0	cartin dbi	IPX		
	accessories			<u> </u>	Mounting	-	ergen clear filter v	1, Photocatalytic washable		
Option pa					mounting		Interface kit (			
Notes	(1) The data ar	o mooouro	ad at the follow		ditions		· ·	ength is 5m.		
NOLES	(1) The data an					tomporatura		engur is offi.	1	
			air temperature			temperature	S	tandards		
	Operation	DB	WB		DB	WB	10	05151 71	4	
	Cooling	27°C	19°C		35°C	24°C		O5151-T1	4	
	Heating	20°C			7°C	6°C		O5151-H1	-	
	Heating (H2)	20°C			2°C	1°C		O5151-H2	1	
	(2) This air-cor									
	(3) Sound leve	l indicates	the value in a	n anech	oic chamb	er. During oper	ation these val	ues are somewhat		

ese values are som (, (4) Select the breaker size according to the own national standard.

			Model			SRK202	ZSX-WT	
Item				Indoor unit		20ZSX-WT	Outdoor unit S	RC20ZSX-W
Power sou	urce				1 Pha	ase, 220 - 240V	/, 50Hz / 220V, 60Hz	
	Nominal cooling capac		kW			2.0 ( 0.9(Min.	) - 3.4 (Max.))	
	Nominal heating capac	ity (range)	kW			2.7 ( 0.8(Min.)	) - 5.5 (Max.))	
	Heating capacity (H2)		kW			-	-	
		Cooling				0.31 ( 0.1	16 - 0.76 )	
Power consumption Heating			kW			0.47 ( 0.1	14 - 1.36 )	
		Heating (H2)	ĸvv			-	-	
	Max power consumption		1			1.	92	
		Cooling			1	.9/1.8/1.7 (2	220/ 230/ 240V)	
	Running current Heating						220/ 230/ 240V)	
Operation	Inrush current, max cu		1				Max. 9	
data						-	6	
ata	Power factor	Heating	%				<u> </u>	
	EER	Cooling				-	45	
		Heating					74	
	COP					5.	/4	
		Heating (H2)			50	-	-	
	Sound power level	Cooling			53		56	
	· · · · · · · · · · · · · · · · · · ·	Heating			55		58	
	Sound pressure level	Cooling	dB(A)			24 ULo: 19	43	
		Heating	l	Hi: 38 Me: 3	<u>3 Lo: 2</u>	5 ULo: 19	45	
	Silent mode sound pres		<u> </u>		-		Cooling:33 / I	
	imensions (Height x Wid	th x Depth)	mm		x 920 x 2		640 x 800(+	l l
Exterior an	ppearance			Titanium gray(1.6)			Stucco	
Equivaler	nt color)			Black (4.0PB 2			Munsell: ( 4.2Y 7.5	1.1 ), RAL:700
Net weigh	t		kg		13		43.0	C
Compress	sor type & Quantity				-		RMT5111SWE3( Twi	n rotary type ) x 1
1	sor motor (Starting meth	od)	kW		-		0.75 ( Inverte	er driven )
	nt oil (Amount, type)		ł		-		0.35 ( DIAMOND F	
	nt (Type, amount, pre-cl	narge length)	kg	R32 1 2	) in outd	oor unit (Incl. th	ne amount for the pipir	/
leat exch		large longin/		Louver fins &			M fins & inner gi	
Refrigerar				Louvor nino a	<u> </u>	0	tronic expansion valve	
	& Quantity			Tang	ential fan		Propeller	
			W				· · · ·	
-an motor	r (Starting method)		vv		(Direct d		34 x1 (Dire	
Air flow		Cooling	m <sup>3</sup> /min	Hi: 11.3 Me: 9			31.0	
		Heating		Hi: 12.2 Me: 1		7.2 ULo: 5.4	31.0	)
	external static pressure		Pa		0		0	
Outside ai					t possibl		-	
Air filter, C	Quality / Quantity			Polypropylene			-	
Shock & v	vibration absorber			Rubber sle	eve (for f	an motor)	Rubber sleeve (for fan r	notor & compresso
Electric he	eater				-		-	
Operation	Remote control					Wireless-rei	mote control	
control	Room temperature con	trol				Microcomput	er thermostat	
control	Operation display				RUN:	Green , TIMER	R: Yellow , ECO: Blue	
				С	ompresso	r overheat protect	ction, Overcurrent protect	ion,
Safety equ	uipments						ection, Indoor fan motor	
					,	0 1	ure control ), Cooling ove	· · · ·
	Refrigerant piping size	(OD)	mm	-		$\phi$ 6.35 ( 1/4" )	Gas line: \$\$ 9.52 (3	
	Connecting method				connect		Flare con	,
	Attached length of pipir	na	m	Liquid line : 0				
nstallation		iy					idoo ) indonondant	
lata	Insulation for piping	(a) ( langth			INEC		ides ), independent	
	Refrigerant line (one w		m	NA	0		x.25	14 to 15
	Vertical height diff. betwee	en O.U. and I.U.	m				/ Max.15 ( Outdoor ur	
	×		1	Hose conr	ectable	(VP16)	Hole $\phi$ 20	x 5 pcs
	Drain hose						-	
	Drain hose np, max lift height		mm		_		1	
Recomme	Drain hose np, max lift height ended breaker size		А		-		6	
Recomme R.A. (Lo	Drain hose np, max lift height ended breaker size ocked rotor ampere)		-			2	.5	
Recomme R.A. (Lo	Drain hose np, max lift height ended breaker size ocked rotor ampere)	x Core number	А	1.5mm <sup>2</sup> x 4 c		2		ew fixing type )
Recomme R.A. (Lo nterconne	Drain hose np, max lift height ended breaker size ocked rotor ampere) ecting wires Size	x Core number	А	1.5mm <sup>2</sup> x 4 c	- cores ( Inc IPX0	2	.5	
Recomme R.A. (Lo nterconne P number	Drain hose np, max lift height ended breaker size ocked rotor ampere) ecting wires Size	x Core number	А		IPX0	2 luding earth cabl	.5 e ) / Terminal block ( Scr	4
Recomme R.A. (Lo nterconne P number Standard	Drain hose pp, max lift height ended breaker size becked rotor ampere) ecting wires Size r accessories	x Core number	А		IPX0	2 luding earth cabl	.5 e ) / Terminal block ( Scr IPX 1, Photocatalytic washable (	4
Recomme R.A. (Lo nterconne P number Standard a Option pa	Drain hose pp, max lift height ended breaker size becked rotor ampere) ecting wires Size r accessories rts		AA	Mounting kit, Cle	IPX0	2 Iuding earth cabl Iergen clear filter x Interface kit (	.5 e ) / Terminal block ( Scr IPX: 1, Photocatalytic washable SC-BIKN2-E )	4
Recomme R.A. (Lo nterconne P number Standard	Drain hose pp, max lift height ended breaker size becked rotor ampere) ecting wires Size r accessories rts (1) The data are measu	ired at the follow	A A ing con	Mounting kit, Cle ditions.	IPX0 an filter ( Al	2 luding earth cabl lergen clear filter x Interface kit ( The pipe le	.5 e ) / Terminal block ( Scr IPX 1, Photocatalytic washable of SC-BIKN2-E ) ength is 5m.	4
Recomme L.R.A. (Lo Interconne IP number Standard a Option pa	Drain hose pp, max lift height ended breaker size becked rotor ampere) ecting wires Size r accessories rts (1) The data are measure Item Indoo	ired at the follow	A A ing con	Mounting kit, Cle ditions. Dutdoor air tempe	IPX0 an filter ( Al	2 luding earth cabl lergen clear filter x Interface kit ( The pipe le	.5 e ) / Terminal block ( Scr IPX: 1, Photocatalytic washable SC-BIKN2-E )	4
Recomme L.R.A. (Lo Interconne IP number Standard a Option pa	Drain hose pp, max lift height ended breaker size bocked rotor ampere) ecting wires Size r accessories rts (1) The data are measu litem Indoo Operation DB	ured at the follow r air temperature WB	A A ing con	Mounting kit, Cle ditions. Dutdoor air tempe DB	IPX0 an filter ( Al erature WB	2 Iuding earth cabl lergen clear filter x Interface kit ( The pipe le	.5 e ) / Terminal block ( Scr IPX. 1, Photocatalytic washable SC-BIKN2-E ) ength is 5m. ttandards	4
Recomme L.R.A. (Lo Interconne P number Standard a Option pa	Drain hose pp, max lift height ended breaker size bocked rotor ampere) ecting wires Size r accessories rts (1) The data are measu litem Indoo Operation DB Cooling 27°C	red at the follow r air temperature WB 2 19°C	A A ing con	Mounting kit, Cle ditions. Dutdoor air tempe DB 1 35°C 2	IPX0 an filter ( Al erature WB 4°C	2 Iuding earth cabl lergen clear filter x Interface kit ( The pipe le S IS	.5 e ) / Terminal block ( Scr IPX. 1, Photocatalytic washable ( SC-BIKN2-E ) ength is 5m. itandards 05151-T1	4
Recomme R.A. (Lo nterconne P number Standard a Option pa	Drain hose pp, max lift height ended breaker size bocked rotor ampere) ecting wires Size r accessories rts (1) The data are measu litem Indoo Operation DB Cooling 27°C Heating 20°C	ured at the follow r air temperature WB : 19°C ; -	A A ing con	Mounting kit, Cle ditions. Dutdoor air tempe DB 35°C 2 7°C 6	IPX0 an filter ( Al erature WB 4°C 5°C	2 Iuding earth cabl lergen clear filter x Interface kit ( The pipe le S IS	.5 e ) / Terminal block ( Scr IPX. 1, Photocatalytic washable ( SC-BIKN2-E ) ength is 5m. itandards 05151-T1 05151-H1	4
Recomme R.A. (Lo nterconne P number Standard a Option pa	Drain hose pp, max lift height ended breaker size bocked rotor ampere) ecting wires Size r accessories rts (1) The data are measu litem Indoo Operation DB Cooling 27°C Heating 20°C Heating (H2) 20°C	ured at the follow r air temperature WB 19°C -	A A ing con	Mounting kit, Cle ditions. Dutdoor air tempe DB 35°C 2 7°C 6 2°C 6	IPX0 an filter ( Al erature WB 4°C 5°C 1°C	2 Iuding earth cabl lergen clear filter x Interface kit ( The pipe le S IS IS	.5 e ) / Terminal block ( Scr IPX. 1, Photocatalytic washable ( SC-BIKN2-E ) ength is 5m. itandards 05151-T1	4
Recomme R.A. (Lo nterconne P number Standard a Option pa	Drain hose pp, max lift height ended breaker size bocked rotor ampere) ecting wires Size r accessories rts (1) The data are measu litem Indoo Operation DB Cooling 27°C Heating 20°C	ured at the follow r air temperature WB 19°C - - is manufactured	A A ing con	Mounting kit, Cle ditions. Dutdoor air tempe DB 35°C 2 7°C 6 2°C 6 sted in conformity	IPX0 an filter ( Al erature WB 4°C 5°C 1°C v with the	2 luding earth cabl lergen clear filter x Interface kit ( The pipe le S IS IS IS	.5 e ) / Terminal block ( Scr IPX. 1, Photocatalytic washable of SC-BIKN2-E ) ength is 5m. itandards 05151-T1 05151-H1 05151-H2	4

(d) Source lover indicates the factor in an an anti-higher due to ambient conditions.(4) Select the breaker size according to the own national standard.

RWA000Z271

				Model			SRK252	ZSX-WT	
Item					Indoc		25ZSX-WT	Outdoor unit S	RC25ZSX-W
Power sou						1 Pha		/, 50Hz / 220V, 60Hz	
	Nominal coolin			kW				) - 3.8 (Max.))	
	Nominal heatin	<u> </u>	/ (range)	kW			3.2 ( 0.8(Min.)	) - 6.0 (Max.))	
	Heating capac	ity (H2)		kW			-	-	
			Cooling				0.44 ( 0.1		
	Power consum	ption	Heating	kW			0.59 ( 0.1	4 - 1.54 )	
	N4		Heating (H2)					-	
	Max power cor	nsumption						92 220/ 230/ 240V)	
	Running current Cooling Heating			А			,	220/ 230/ 240 V) 220/ 230/ 240 V)	
Oneration	Inrush current,	max curre		~			<u>,</u>	Max. 9	
data			Cooling					10 S	
Jala	Power factor		Heating	%				5	
	EER		Cooling				-	68	
			Heating					42	
	COP		Heating (H2)	1			-	-	
			Cooling			55		57	
	Sound power l	evel	Heating	1		56		58	
	Cound ment		Cooling	dB(A)	Hi: 39	Me: 33 Lo: 2	25 ULo: 19	44	
	Sound pressur	e level	Heating	1 `´	Hi: 40	Me: 34 Lo: 2		45	
	Silent mode so	ound press		1		-		Cooling:35 /	Heating:39
Exterior di	mensions (Heig			mm		305 x 920 x 2	220	640 x 800(+	
Exterior ap	opearance				Titanium gr	ay(1.6Y 6.59/0.6	63), (RAL:7048)	Stucco	<i>(</i>
Equivaler	•					.0PB 2.44/0.25)		Munsell: ( 4.2Y 7.5	/1.1 ) <u>, RAL</u> :700
Vet weigh	t			kg		13		43.	-
	or type & Quan					-		RMT5111SWE3( Twi	n rotary type ) x 1
Compress	or motor (Starti	ng methoo	1)	kW		-		0.75 ( Invert	er driven)
	nt oil (Amount, ty			ł		-		0.35 ( DIAMOND F	REEZE MB75 )
	nt (Type, amoui	nt, pre-cha	arge length)	kg				ne amount for the pipi	
leat exch					Louver	fins & inner gro		M fins & inner g	
Refrigerar								tronic expansion valv	
	& Quantity					Tangential far		Propeller	
Fan motor (Starting method)				W		42 x1 (Direct d	,	34 x1 (Dire	,
Air flow			Cooling	m³/min		Me: 10.0 Lo:		31.	
-			Heating		Hi: 12.8	Me: 11.0 Lo:	7.8 ULo: 5.4	31.	0
	external static p	ressure		Pa		0		0	
Dutside ai						Not possibl		-	
	Quality / Quantity					pylene net ( W		-	
	ibration absorbe	er			Rubb	er sleeve (for f	an motor)	Rubber sleeve (for fan	notor & compresso
Electric he	1					-		-	
Operation	Remote contro							mote control	
control	Room tempera		01			BUN		er thermostat	
	Operation disp	lay						R: Yellow , ECO: Blue	
Safety equ	linmonto				Freet			ction, Overcurrent protec ection, Indoor fan motor	
salety equ	lipments						• ·		
	Defrigerent nin	ing size (		mm	neaun		$\phi$ 6.35 (1/4")	Gas line: $\phi$ 9.52 (	
	Refrigerant pip Connecting me		0.0)			Flare connect		Flare con	/
	Attached lengt		1	m	Liquid	ine : 0.55 / Ga			
nstallation	Insulation for p		1					ides ), independent	
lata	Refrigerant lin		v) length	m		INCO		x.25	
	Vertical height di			m	May	(15 ( Outdoor		/ Max.15 ( Outdoor ui	nit is lower )
	Drain hose					e connectable		Hole \$\$20	
Drain num	ip, max lift heigh	nt		mm	1103	-	,	-	
	nded breaker s			A		-	1	6	
	cked rotor amp			A				.0	
· · · ·	ecting wires		Core number		1.5mm	$n^2 \times 4$ cores ( Inc		e ) / Terminal block ( Sci	ew fixing type )
P number	0	10.20 A			1.011	IPX0	und and a second second	IPX	
	accessories				Mountina	-	llergen clear filter x	1, Photocatalytic washable	
Option pa							Interface kit (		5
Notes	(1) The data a	re measur	ed at the follow	ina con	ditions		(	ength is 5m.	
	Item		air temperature			temperature			1
	Operation	DB	WB	$\neg$	DB	WB	l s	tandards	
	Cooling	27°C	19°C		35°C	24°C	IS	O5151-T1	1
	Heating	20°C	-		7°C	6°C		O5151-H1	1
		20°C	-		2°C	1°C		O5151-H2	1
			manufactured	and tes				-	4
	Heating (H2) (2) This air-cor (3) Sound leve higher due	nditioner is I indicates	the value in ar		sted in conf	ormity with the	ISO.	O5151-H2 ues are somewhat	J

higher due to ambient conditions.(4) Select the breaker size according to the own national standard.

RWA000Z271

		Model		SRK352	ZSX-WT		
				35ZSX-WT	Outdoor unit SRC35ZSX-W		
rce			1 Pha		, 50Hz / 220V, 60Hz		
		kW			) - 4.5 (Max.))		
	city (range)			4.3 ( 0.8(Min.)	) - 6.8 (Max.))		
Heating capacity (H2)		kW			-		
					•		
Power consumption	<u>U</u>	kW		0.90 ( 0.1	4 - 1.87 )		
	<u> </u>				-		
Max power consumpti	1				92		
Running current Cooling							
Dperation Inrush current, max current lata Power factor Cooling		A	4	(	,		
					Max. 9		
		%		-			
	¥						
EER	- ×						
COP				4.	78		
				-	-		
Sound power level					61		
			÷		62		
Sound pressure level		dB(A)			48		
		1	Hi: 42 Me: 35 Lo: 2	28 ULo: 19	47		
		<b> </b>	-		Cooling:38 / Heating:43		
	dth x Depth)	mm			640 x 800(+71) x 290		
					Stucco white		
		<u> </u>		, (RAL:9011)	Munsell: ( 4.2Y 7.5/1.1 ), RAL:700		
		kg	-		43.0		
			-		RMT5111SWE3( Twin rotary type ) x 1		
<u> </u>	iod)		-		0.90 ( Inverter driven )		
			-		0.35 ( DIAMOND FREEZE MB75 )		
	harge length)	kg					
<u> </u>				Ų	M fins & inner grooved tubing		
				,	· · ·		
					Propeller fan x 1		
Fan motor (Starting method)					34 x1 (Direct drive)		
		m <sup>3</sup> /min			36.0		
				8.6 ULo: 5.4	31.0		
		Ра	•		0		
					-		
, ,					-		
			Rubber sleeve (for f	an motor)	Rubber sleeve (for fan motor & compress		
			-		-		
	ntrol		Microcomputer thermostat				
Operation display							
ipments				•			
		ļ					
	e(O.D)	mm			Gas line: \$\phi 9.52 (3/8")		
		<b> </b>			Flare connection		
· · ·	ng	m			-		
Insulation for piping		L	Nec		ides ), independent		
Refrigerant line (one		m			x.25		
	en O.U. and I.U.	m			/ Max.15 ( Outdoor unit is lower )		
ě			Hose connectable	(VP16)	Hole $\phi$ 20 x 5 pcs		
Drain hose							
Drain hose p, max lift height		mm	-		-		
Drain hose p, max lift height nded breaker size		Α	-		- 6		
Drain hose p, max lift height nded breaker size cked rotor ampere)			-	4	.3		
Drain hose p, max lift height nded breaker size cked rotor ampere) cting wires Size	e x Core number	Α	- 1.5mm <sup>2</sup> x 4 cores ( Inc	4	.3 e)/ Terminal block(Screw fixing type)		
Drain hose p, max lift height nded breaker size cked rotor ampere) cting wires Size	e x Core number	Α	- 1.5mm <sup>2</sup> x 4 cores ( Inc IPX0	4 Iuding earth cabl	.3 e ) / Terminal block ( Screw fixing type ) IPX4		
Drain hose p, max lift height nded breaker size cked rotor ampere) cting wires Size	e x Core number	Α	- 1.5mm <sup>2</sup> x 4 cores ( Inc IPX0	4 Iuding earth cabl	.3 e)/ Terminal block(Screw fixing type)		
Drain hose p, max lift height nded breaker size cked rotor ampere) cting wires Size accessories ts		AA	- 1.5mm <sup>2</sup> x 4 cores ( Inc IPX0 Mounting kit, Clean filter ( Al	4 cluding earth cabl lergen clear filter x Interface kit (	.3 e ) / Terminal block ( Screw fixing type ) IPX4 1, Photocatalytic washable deodorizing filter x 1 SC-BIKN2-E )		
Drain hose p, max lift height nded breaker size cked rotor ampere) cting wires Size accessories		AA	- 1.5mm <sup>2</sup> x 4 cores ( Inc IPX0 Mounting kit, Clean filter ( Al	4 cluding earth cabl lergen clear filter x Interface kit (	.3 e ) / Terminal block ( Screw fixing type ) IPX4 1, Photocatalytic washable deodorizing filter x 1		
Drain hose p, max lift height nded breaker size cked rotor ampere) cting wires Size accessories ts (1) The data are meas Item Indo	ured at the follow	A A ving con	- 1.5mm <sup>2</sup> x 4 cores ( Inc IPX0 Mounting kit, Clean filter ( Al	4 cluding earth cabl lergen clear filter x Interface kit ( The pipe le	.3 e ) / Terminal block ( Screw fixing type ) IPX4 1, Photocatalytic washable deodorizing filter x 1 SC-BIKN2-E ) ength is 5m.		
Drain hose p, max lift height nded breaker size cked rotor ampere) cting wires Size accessories ts (1) The data are meas Item Indo Operation Df	ured at the follow or air temperature 3 WB	A A ving con	- 1.5mm <sup>2</sup> x 4 cores ( Inc IPX0 Mounting kit, Clean filter ( Al ditions.	4 Iluding earth cabl Ilergen clear filter x Interface kit ( The pipe le	.3 e ) / Terminal block ( Screw fixing type ) IPX4 1, Photocatalytic washable deodorizing filter x 1 SC-BIKN2-E ) ength is 5m. tandards		
Drain hose p, max lift height nded breaker size cked rotor ampere) cting wires Size accessories ts (1) The data are meas Item Indo	ured at the follow or air temperature 3 WB	A A ving con	- 1.5mm <sup>2</sup> x 4 cores ( Inc IPX0 Mounting kit, Clean filter ( Al ditions. Dutdoor air temperature	4 Iluding earth cabl Ilergen clear filter x Interface kit ( The pipe le	.3 e ) / Terminal block ( Screw fixing type ) IPX4 1, Photocatalytic washable deodorizing filter x 1 SC-BIKN2-E ) ength is 5m.		
Drain hose p, max lift height nded breaker size cked rotor ampere) cting wires Size accessories ts (1) The data are meas Item Indo Operation Df	ured at the follow or air temperature WB C 19°C	A A ving con	- 1.5mm <sup>2</sup> x 4 cores ( Inc IPX0 Mounting kit, Clean filter ( Al ditions. Dutdoor air temperature DB WB 35°C 24°C 7°C 6°C	4 Iduding earth cabl Ilergen clear filter x Interface kit ( The pipe le S IS	.3 e ) / Terminal block ( Screw fixing type ) IPX4 1, Photocatalytic washable deodorizing filter x 1 SC-BIKN2-E ) ength is 5m. tandards 05151-T1 05151-H1		
Drain hose p, max lift height nded breaker size cked rotor ampere) cting wires Size accessories ts (1) The data are meas ltem Indo Operation DE Cooling 27°	ured at the follow or air temperature B WB C 19°C C -	A A ving con	- 1.5mm <sup>2</sup> x 4 cores ( Inc IPX0 Mounting kit, Clean filter ( Al ditions. Dutdoor air temperature DB WB 35°C 24°C	4 Iduding earth cabl Ilergen clear filter x Interface kit ( The pipe le S IS	.3 e ) / Terminal block ( Screw fixing type ) IPX4 1, Photocatalytic washable deodorizing filter x 1 SC-BIKN2-E ) ength is 5m. tandards O5151-T1		
	Nominal cooling capad Nominal heating capad Heating capacity (H2) Power consumption Max power consumption Max power consumption Running current Inrush current, max cu Power factor EER COP Sound power level Sound pressure level Silent mode sound pre nensions (Height x Win pearance t color) or type & Quantity or motor (Starting meth t cil (Amount, type) t (Type, amount, pre- anger c control Quantity (Starting method) xternal static pressure intake uality / Quantity bration absorber ater Remote control Room temperature con Operation display ipments Refrigerant piping size Connecting method Attached length of pipi Insulation for piping	Nominal cooling capacity (range)         Nominal heating capacity (range)         Heating capacity (H2)         Power consumption         Heating (H2)         Max power consumption         Running current         Power factor         Power factor         Cooling         Heating         EER       Cooling         COP       Heating         Heating         COP       Heating         Sound power level       Cooling         Sound pressure level       Cooling         Meating       Cooling         Silent mode sound pressure level       Heating         Silent mode sound pressure level       measines         nensions (Height x Width x Depth)       pearance         t color)       cooling         or motor (Starting method)       toil (Amount, type)         t (Type, amount, pre-charge length)       anger         t control       Quantity         (Starting method)       Cooling         titlake       Lauing         xternal static pressure       Intake         uality / Quantity       Cooling         foration absorber       Totate         ater       Remote control <td>Nominal cooling capacity (range)       kW         Nominal heating capacity (range)       kW         Heating capacity (H2)       kW         Power consumption       Cooling         Running current       Cooling         Running current       Cooling         Power factor       Cooling         Power factor       Cooling         Heating       Heating         COP       Heating         Heating       Heating         Sound power level       Cooling         Mate color       Cooling         Bilent mode sound pressure level       mm         mensions (Height x Width x Depth)       mm         pearance       kg         t color)       kg         or type &amp; Quantity       kg         or motor (Starting method)       kW         (Starting method)       W         Quantity       Quantity         (Starting method)       W         Remote control       Qoing         nater       Remote control         Quantity       Pa         intake       ma³/min         waternal static pressure       Pa         intake       Pa         uality / Quantity</td> <td>Nominal cooling capacity (range)       kW         Nominal heating capacity (range)       kW         Heating capacity (range)       kW         Power consumption       KW         Running current       Cooling Heating       kW         Running current       Cooling Heating       A         Power factor       Cooling Heating       A         Power factor       Cooling Heating       %         EER       Cooling Heating       %         Sound power level       Cooling Heating       58         Sound power level       Cooling Heating       58         Sound pressure level       Cooling Heating       58         Sound pressure level       Cooling Heating       58         Silent mode sound pressure level       Titanium gray(1.6% 6.590.0 Black (4.0PB 2.44/0.25)         pearance       Titanium gray(1.6% 6.590.0 Black (4.0PB 2.44/0.25)         pr type &amp; Quantity       -         r tortor       Capilla Quartity         Quantity       Tangential far         tortrol       Cooling Heating         Mi: 13.1 Me: 10.8 Lo: Type, amount, pre-charge length)       Kg</td> <td>Nominal cooling capacity (range)       kW       3.5 ( 0.9(Min.         Nominal heating capacity (H2)       kW       4.3 ( 0.8(Min.         Heating capacity (H2)       kW       0.74 ( 0.1         Power consumption       Heating (H2)       kW       0.90 ( 0.1         Max power consumption       Heating (H2)       kW       0.90 ( 0.1         Running current       Cooling Heating       A       4.4 / 4.3 / 4.1 (2         Inrush current, max current       Cooling Heating       A       4.4 / 4.3 / 4.1 (2         Power factor       Cooling Heating       9       9         EER       Cooling Heating       4.4       4.3 / 4.1 (2         COP       Heating H2)       -       -         Sound power level       Cooling Heating       58       -         Sound pressure level       Cooling Heating G       58       -         Silent mode sound pressure level       -       -       -         pearance       cooling Heating G       -       -         color)       kg       13       -       -         or type &amp; Quantity       -       -       -       -         or type &amp; Quantity       Kg       R32 1.20 in outdoor unit (Ind. tt angertial fan x 1       -     <!--</td--></td>	Nominal cooling capacity (range)       kW         Nominal heating capacity (range)       kW         Heating capacity (H2)       kW         Power consumption       Cooling         Running current       Cooling         Running current       Cooling         Power factor       Cooling         Power factor       Cooling         Heating       Heating         COP       Heating         Heating       Heating         Sound power level       Cooling         Mate color       Cooling         Bilent mode sound pressure level       mm         mensions (Height x Width x Depth)       mm         pearance       kg         t color)       kg         or type & Quantity       kg         or motor (Starting method)       kW         (Starting method)       W         Quantity       Quantity         (Starting method)       W         Remote control       Qoing         nater       Remote control         Quantity       Pa         intake       ma³/min         waternal static pressure       Pa         intake       Pa         uality / Quantity	Nominal cooling capacity (range)       kW         Nominal heating capacity (range)       kW         Heating capacity (range)       kW         Power consumption       KW         Running current       Cooling Heating       kW         Running current       Cooling Heating       A         Power factor       Cooling Heating       A         Power factor       Cooling Heating       %         EER       Cooling Heating       %         Sound power level       Cooling Heating       58         Sound power level       Cooling Heating       58         Sound pressure level       Cooling Heating       58         Sound pressure level       Cooling Heating       58         Silent mode sound pressure level       Titanium gray(1.6% 6.590.0 Black (4.0PB 2.44/0.25)         pearance       Titanium gray(1.6% 6.590.0 Black (4.0PB 2.44/0.25)         pr type & Quantity       -         r tortor       Capilla Quartity         Quantity       Tangential far         tortrol       Cooling Heating         Mi: 13.1 Me: 10.8 Lo: Type, amount, pre-charge length)       Kg	Nominal cooling capacity (range)       kW       3.5 ( 0.9(Min.         Nominal heating capacity (H2)       kW       4.3 ( 0.8(Min.         Heating capacity (H2)       kW       0.74 ( 0.1         Power consumption       Heating (H2)       kW       0.90 ( 0.1         Max power consumption       Heating (H2)       kW       0.90 ( 0.1         Running current       Cooling Heating       A       4.4 / 4.3 / 4.1 (2         Inrush current, max current       Cooling Heating       A       4.4 / 4.3 / 4.1 (2         Power factor       Cooling Heating       9       9         EER       Cooling Heating       4.4       4.3 / 4.1 (2         COP       Heating H2)       -       -         Sound power level       Cooling Heating       58       -         Sound pressure level       Cooling Heating G       58       -         Silent mode sound pressure level       -       -       -         pearance       cooling Heating G       -       -         color)       kg       13       -       -         or type & Quantity       -       -       -       -         or type & Quantity       Kg       R32 1.20 in outdoor unit (Ind. tt angertial fan x 1       - </td		

se values are some (d) Select the breaker size according to the own national standard.

				Model				SRK502	ZSX-WT	
Item					Indoc			ZSX-WT	Outdoor unit	
Power sou	urce						1 Phas	e, 220 - 240V	/, 50Hz / 220V, 60Hz	
	Nominal cooling	g capacity	(range)	kW			4	5.0 ( 1.0(Min.	) - 6.2 (Max.))	
	Nominal heatin	g capacity	(range)	kW				6.0 ( 0.8(Min.	) - 8.2 (Max.))	
	Heating capacit	ty (H2)		kW				-	-	
		(	Cooling					1.24 ( 0.1	9 - 1.90 )	
	Power consum	otion	Heating	kW				1.36 ( 0.2	20 - 2.46 )	
			Heating (H2)					-	_	
	Max power con	sumption						2.	90	
	Running current Cooling							220/ 230/ 240V)		
	Turning current	۲ ا	Heating	Α			6.2	2/6.0/5.7 (2	220/ 230/ 240V)	
Operation	Inrush current,	max currer	nt					5.0	Max.15	
data	Power factor	(	Cooling	%				9	9	
	Power lactor		Heating	70				9	9	
	EER	(	Cooling					4.	03	
	COP		Heating					4.	41	
	COP	Ī	Heating (H2)					-	-	
	Cound newer la	6	Cooling			5	9		63	3
	Sound power le	ever	Heating			6	2		61	1
			Cooling	dB(A)	Hi: 44	Me: 39	Lo: 31	ULo: 22	5	1
	Sound pressure		Heating	, í				ULo: 23	49	)
	Silent mode so		0	1			-		Cooling:42 /	Heating:43
Exterior di	imensions (Heigl			mm		305 x 9	20 x 22	0	640 x 800(-	
	ppearance				Titanium or			, (RAL:7048)	Stucco	<i>(</i>
Equivaler								RAL:9011)	Munsell : ( 4.2Y 7.5	
Vet weigh	,			kg	Diadic()		3		45	1.
	sor type & Quant	itv		···g			-		RMT5111SWE3( Tw	
	sor motor (Startin		1	kW			-		1.50 ( Inver	
	nt oil (Amount, ty	<u> </u>		ł	_				0.45 ( DIAMOND	
	nt (Type, amoun		ae lenath)	kg	R3	2 1 30 in	outdoo	r unit (Incl. th	ne amount for the pip	
Heat exch		t, pre-char	ge lengin)	Ng				ved tubing	M fins & inner g	
Refrigerar	<u> </u>				LOUVEI				tronic expansion valv	
						Tangenti			Propeller	
	& Quantity r (Starting metho	d)		W		42 x1 (Di			34 x1 (Dire	
-an motor	I (Starting metho	<i>.</i>	Cooling	vv						ļ
Air flow			Cooling	m³/min				.8 ULo: 5.4	39	
A	automol statio au		Heating	Ра	HI. 17.3			.8 ULo: 6.2	33	
	external static pr	essure		Ра			)		0	
Dutside ai						Not po			-	
	Quality / Quantity						<u>``</u>	hable) x 2	-	
	ibration absorbe	r			Rubb	er sleeve	(for far	n motor)	Rubber sleeve (for fan	motor & compresso
Electric he	1						-		-	
Operation	Remote control							Wireless rei		
control	Room temperat		1						er thermostat	
	Operation displ	ay				F	RUN: G	reen, TIMEF	R: Yellow , ECO: Blue	;
									tion, Overcurrent protect	
Safety equ	uipments					,		0 1	ection, Indoor fan motor	· · · · ·
					Heating				ure control ), Cooling ov	
	Refrigerant pipi	ng size ( C	).D)	mm		Liquid	line: $\phi$	6.35 ( 1/4" )	Gas line: <i>ф</i> 12.7 (	1/2" )
	Connecting me					Flare co			Flare cor	nection
notallation	Attached length	of piping		m	Liquid I	ine : 0.55	/ Gas	line : 0.48	-	
nstallation data	Insulation for pi	ping					Neces	sary ( Both s	ides ), independent	
	Refrigerant line	e (one way	) length	m				Max	x.30	
	Vertical height dif			m	Max	.20 ( Out	door ur	nit is higher)	/ Max.20 ( Outdoor u	nit is lower)
	Drain hose					e connect		<u> </u>		20 x 5 pcs
Drain pum	np, max lift heigh	t		mm			-	/	-	C
	ended breaker siz			A				2	0	
	ocked rotor ampe			A					.0	
	ecting wires		Core number		1.5mn	$n^2 \times 4$ core	s ( Inclu		e ) / Terminal block ( Sc	rew fixing type )
P number	0	5120 / (			1.011	IP		and said out	IP>	
	accessories				Mounting		-	aen clear filter v	1, Photocatalytic washable	
Option pa					mounting	, Sicari II	-	-	SC-BIKN2-E)	- Season Zing much A 1
	(1) The data are	monouro	d at the fallow	ing cor	ditione		I	,	,	
Notes						tomporat	ure I	The pipe is	ength is 5m.	7
	Item		ir temperature		Dutdoor air		ure	S	tandards	
	Operation	DB	WB		DB	WB	-+	10		4
	Cooling	27°C	19°C		35°C	24°C	;		O5151-T1	4
	Heating	20°C	-		7°C	6°C			O5151-H1	4
	Heating (H2)	20°C	-		2°C	1°C			O5151-H2	1
	(2) This air-con									
	(3) Sound level	indicates t	the value in ar	n anech	oic chambe	er. During	operat	tion these val	ues are somewhat	
	higher due t		a a constitui a const			-				

higher due to ambient conditions.(4) Select the breaker size according to the own national standard.

RWA000Z271

				Model	S	RK60ZSX-WT
Item					Indoor unit SRK60ZSX-W	
Power sou	urce				1 Phase, 220	- 240V, 50Hz / 220V, 60Hz
1	Nominal cooling ca	apacity (rar	nge)	kW	6.1 ( 1.0	D(Min.) - 6.9 (Max.))
	Nominal heating ca	apacity (rar	nge)	kW	6.8 ( 0.8	B(Min.) - 8.8 (Max.))
	Heating capacity (			kW		—
		Coc	oling		1.7	1 ( 0.19 - 2.50 )
	Power consumption	n Hea	ating	kW	1.6	5 ( 0.20 - 2.86 )
		Hea	ating (H2)			—
	Max power consur	nption				2.90
	Pupping current	Coc	oling		7.9 / 7.5 /	7.2 (220/ 230/ 240V)
	Running current Heating		Α	7.6 / 7.2 /	6.9 (220/ 230/ 240V)	
Operation	Deration Inrush current, max current			5	5.0 Max. 15	
data	Power factor Cooling		%		99	
	I Ower lactor	Hea	ating	70		99
	EER	Coc	oling			3.57
	COP		ating			4.12
	001	Hea	ating (H2)			—
	Sound power level	Coc	oling		62	65
		Hea	ating		63	64
	Sound pressure le		oling	dB(A)	Hi: 48 Me: 41 Lo: 33 ULo:	
ļ		Hea	ating		Hi: 47 Me: 42 Lo: 34 ULo:	
	Silent mode sound				-	Cooling:42 / Heating:43
	mensions (Height x	Width x D	epth)	mm	305 x 920 x 220	640 x 800(+71) x 290
	opearance				Titanium gray(1.6Y 6.59/0.63), (RAL:	
Equivalen					Black (4.0PB 2.44/0.25), (RAL:901	
Net weight	t			kg	13	45
Compress	or type & Quantity				-	RMT5111SWE3( Twin rotary type ) x 1
Compress	or motor (Starting r	nethod)		kW	-	1.50 (Inverter driven)
	nt oil (Amount, type)			ł	-	0.45 ( DIAMOND FREEZE MB75 )
Refrigeran	nt (Type, amount, p	re-charge	length)	kg	R32 1.30 in outdoor unit (	Incl. the amount for the piping of 15m)
Heat excha	anger				Louver fins & inner grooved tub	Ding M fins & inner grooved tubing
Refrigeran					Capillary tubes	+ Electronic expansion valve
Fan type & Quantity					Tangential fan x 1	Propeller fan x 1
Fan motor	(Starting method)			W	42 x1 (Direct drive)	34 x1 (Direct drive)
Air flow Cooling			oling	m <sup>3</sup> /min	Hi: 16.3 Me: 13.4 Lo: 8.9 ULo	: 5.4 41.5
		Hea	ating	m /mm	Hi: 17.8 Me: 13.7 Lo: 10.9 ULo	: 6.2 39.0
Available e	external static press	sure		Pa	0	0
	r intoko				Not possible	-
Outside ai	IIIIake				Polypropylene net (Washable)	- x 2 -
	Quality / Quantity					
Air filter, Q					Rubber sleeve (for fan motor	
Air filter, Q Shock & vi	Quality / Quantity ibration absorber					
Air filter, Q Shock & vi Electric he	Quality / Quantity ibration absorber				Rubber sleeve (for fan motor -	
Air filter, Q Shock & vi Electric he Operation	Quality / Quantity ibration absorber eater	e control			Rubber sleeve (for fan motor - Wirele	) Rubber sleeve (for fan motor & compresso -
Air filter, Q Shock & vi Electric he Operation	Quality / Quantity ibration absorber eater Remote control	control			Rubber sleeve (for fan motor - Wirele Microce	Rubber sleeve (for fan motor & compresso     - ess remote control
Air filter, Q Shock & vi Electric he Operation	Quality / Quantity ibration absorber eater Remote control Room temperature	control			Rubber sleeve (for fan motor - Wirele Microco RUN: Green	Rubber sleeve (for fan motor & compresso     - ess remote control computer thermostat
Air filter, Q Shock & vi Electric he Operation control	Quality / Quantity ibration absorber eater Remote control Room temperature Operation display	control			Rubber sleeve (for fan motor - Wirele Microco RUN: Green Compressor overheat	Rubber sleeve (for fan motor & compresso     - ess remote control computer thermostat TIMER: Yellow , ECO: Blue
Air filter, Q Shock & vi Electric he Operation control	Quality / Quantity ibration absorber eater Remote control Room temperature Operation display	e control			Rubber sleeve (for fan motor - Wirele Microco RUN: Green Compressor overheat Frost protection, Serial signal ern	Rubber sleeve (for fan motor & compresso     - ess remote control computer thermostat TIMER: Yellow , ECO: Blue protection, Overcurrent protection,
Air filter, Q Shock & vi Electric he Operation control	Quality / Quantity ibration absorber eater Remote control Room temperature Operation display		)	mm	Rubber sleeve (for fan motor - Wirele Microco RUN: Green Compressor overheat Frost protection, Serial signal ern	Rubber sleeve (for fan motor & compressore -     - ess remote control computer thermostat TIMER: Yellow , ECO: Blue protection, Overcurrent protection, or protection, Indoor fan motor error protection, pressure control ), Cooling overload protection
Air filter, Q Shock & vi Electric he Operation control	Quality / Quantity ibration absorber eater Remote control Room temperature Operation display uipments	size ( O.D	)	mm	Rubber sleeve (for fan motor - Wirele Microco RUN: Green Compressor overheat Frost protection, Serial signal ern Heating overload protection( High	Rubber sleeve (for fan motor & compressore -     - ess remote control computer thermostat TIMER: Yellow , ECO: Blue protection, Overcurrent protection, or protection, Indoor fan motor error protection, pressure control ), Cooling overload protection
Air filter, Q Shock & vi Electric he Operation control Safety equ	Quality / Quantity ibration absorber eater Remote control Room temperature Operation display uipments Refrigerant piping	size ( O.D	)	mm	Rubber sleeve (for fan motor - Wirele Microco RUN: Green , Compressor overheat Frost protection, Serial signal err Heating overload protection( High Liquid line: ¢6.35 (	Rubber sleeve (for fan motor & compressor     - ess remote control computer thermostat TIMER: Yellow , ECO: Blue r protection, Overcurrent protection, or protection, Indoor fan motor error protection, pressure control ), Cooling overload protection 1/4") Gas line: $\phi$ 12.7 (1/2") Flare connection
Air filter, Q Shock & vi Electric he Operation control Safety equ	Quality / Quantity ibration absorber eater Remote control Room temperature Operation display uipments Refrigerant piping Connecting metho Attached length of Insulation for pipin	size ( O.D d piping g	•		Rubber sleeve (for fan motor Wirele Microco RUN: Green Compressor overheat Frost protection, Serial signal err Heating overload protection( High Liquid line: ¢6.35 ( Flare connection Liquid line : 0.55 / Gas line : 0.	Rubber sleeve (for fan motor & compressor     - ess remote control computer thermostat TIMER: Yellow , ECO: Blue r protection, Overcurrent protection, or protection, Indoor fan motor error protection, pressure control ), Cooling overload protection 1/4") Gas line: $\phi$ 12.7 ( 1/2") Flare connection
Air filter, Q Shock & vi Electric he Operation control Safety equ	Quality / Quantity ibration absorber eater Remote control Room temperature Operation display uipments Refrigerant piping Connecting metho Attached length of	size ( O.D d piping g	•		Rubber sleeve (for fan motor Wirele Microco RUN: Green Compressor overheat Frost protection, Serial signal err Heating overload protection( High Liquid line: ¢6.35 ( Flare connection Liquid line : 0.55 / Gas line : 0.	Rubber sleeve (for fan motor & compresson -         -         ess remote control         computer thermostat         TIMER: Yellow , ECO: Blue         r protection, Overcurrent protection,         or protection, Indoor fan motor error protection,         pressure control ), Cooling overload protection         1/4")       Gas line: \$\$\phi\$12.7 (1/2")         Flare connection         48       -
Air filter, Q Shock & vi Electric he Operation control Safety equ	Quality / Quantity ibration absorber eater Remote control Room temperature Operation display uipments Refrigerant piping Connecting metho Attached length of Insulation for pipin	size ( O.D d piping g ne way) le	ngth	m	Rubber sleeve (for fan motor Wirele Microco RUN: Green Compressor overheat Frost protection, Serial signal err Heating overload protection( High Liquid line: $\phi$ 6.35 ( Flare connection Liquid line : 0.55 / Gas line : 0. Necessary ( 1	Rubber sleeve (for fan motor & compresson -         ess remote control         computer thermostat         TIMER: Yellow , ECO: Blue         r protection, Overcurrent protection,         or protection, Indoor fan motor error protection,         pressure control ), Cooling overload protection         1/4")       Gas line: φ12.7 (1/2")         Flare connection         48       -         Both sides ), independent
Air filter, Q Shock & vi Electric he Operation control Safety equ	Quality / Quantity ibration absorber eater Remote control Room temperature Operation display uipments Refrigerant piping Connecting metho Attached length of Insulation for pipin Refrigerant line (o	size ( O.D d piping g ne way) le	ngth	m m	Rubber sleeve (for fan motor Wirele Microco RUN: Green Compressor overheat Frost protection, Serial signal err Heating overload protection( High Liquid line: $\phi$ 6.35 ( Flare connection Liquid line : 0.55 / Gas line : 0. Necessary ( 1	Rubber sleeve (for fan motor & compresson         -         ess remote control         computer thermostat         TIMER: Yellow , ECO: Blue         r protection, Overcurrent protection,         or protection, Indoor fan motor error protection,         pressure control ), Cooling overload protection         1/4")       Gas line: \$\phi 12.7 (1/2")         Flare connection         48       -         Both sides ), independent         Max.30
Air filter, Q Shock & vi Electric he Operation control Safety equ	Auality / Quantity ibration absorber eater Remote control Room temperature Operation display upments Refrigerant piping Connecting metho Attached length of Insulation for pipin Refrigerant line (o Vertical height diff. bo	size ( O.D d piping g ne way) le	ngth	m m	Rubber sleeve (for fan motor - Wirele Microco RUN: Green Compressor overheat Frost protection, Serial signal erro Heating overload protection( High Liquid line: ¢6.35 ( Flare connection Liquid line : 0.55 / Gas line : 0. Necessary ( I Max.20 ( Outdoor unit is hig	Rubber sleeve (for fan motor & compresson         -         ess remote control         computer thermostat         TIMER: Yellow , ECO: Blue         r protection, Overcurrent protection,         or protection, Indoor fan motor error protection,         pressure control ), Cooling overload protection         1/4")       Gas line: φ12.7 ( 1/2" )         Flare connection         48       -         Both sides ), independent         Max.30         gher ) / Max.20 ( Outdoor unit is lower )
Air filter, Q Shock & vi Electric he Operation control Safety equ nstallation data Drain pum	Auality / Quantity ibration absorber eater Remote control Room temperature Operation display upments Refrigerant piping Connecting metho Attached length of Insulation for pipin Refrigerant line (o Vertical height diff. be Drain hose	size ( O.D d piping g ne way) le	ngth	m m m	Rubber sleeve (for fan motor - Wirele Microco RUN: Green Compressor overheat Frost protection, Serial signal erro Heating overload protection( High Liquid line: ¢6.35 ( Flare connection Liquid line : 0.55 / Gas line : 0. Necessary ( I Max.20 ( Outdoor unit is hig	Rubber sleeve (for fan motor & compresson         -         ess remote control         computer thermostat         TIMER: Yellow , ECO: Blue         r protection, Overcurrent protection,         or protection, Indoor fan motor error protection,         pressure control ), Cooling overload protection         1/4")       Gas line: φ12.7 ( 1/2" )         Flare connection         48       -         Both sides ), independent         Max.30         gher ) / Max.20 ( Outdoor unit is lower )
Air filter, Q Shock & vi Electric he Operation control Safety equ nstallation data Drain pum Recomme	Auality / Quantity ibration absorber eater Remote control Room temperature Operation display upments Refrigerant piping Connecting metho Attached length of Insulation for pipin Refrigerant line (o Vertical height diff. be Drain hose	size ( O.D d piping g ne way) le	ngth	m m m	Rubber sleeve (for fan motor - Wirele Microco RUN: Green Compressor overheat Frost protection, Serial signal erro Heating overload protection( High Liquid line: ¢6.35 ( Flare connection Liquid line : 0.55 / Gas line : 0. Necessary ( I Max.20 ( Outdoor unit is hig	P       Rubber sleeve (for fan motor & compresson         -       -         ess remote control       -         computer thermostat       -         TIMER: Yellow , ECO: Blue       -         composition, Overcurrent protection, or protection, Indoor fan motor error protection       -         1/4")       Gas line: $\phi$ 12.7 ( 1/2" )         Flare connection       -         48       -         Both sides ), independent       Max.30         gher ) / Max.20 ( Outdoor unit is lower )       -         Hole $\phi$ 20 x 5 pcs       -
Air filter, Q Shock & vi Electric he Operation control Safety equ nstallation data Drain pum Recomme R.A. (Loo	Quality / Quantity ibration absorber eater Remote control Room temperature Operation display upments Refrigerant piping Connecting metho Attached length of Insulation for pipin Refrigerant line (o Vertical height diff. be Drain hose up, max lift height ended breaker size cked rotor ampere)	size ( O.D d piping g ne way) le	ngth and I.U.	m m m m A	Rubber sleeve (for fan motor Wirele Microco RUN: Green Compressor overheat Frost protection, Serial signal err Heating overload protection( High Liquid line: $\phi$ 6.35 ( Flare connection Liquid line : 0.55 / Gas line : 0. Necessary ( 1 Max.20 ( Outdoor unit is hig Hose connectable ( VP16 )	Rubber sleeve (for fan motor & compresson         -         ess remote control         computer thermostat         TIMER: Yellow , ECO: Blue         r protection, Overcurrent protection,         or protection, Indoor fan motor error protection,         pressure control ), Cooling overload protection         1/4")       Gas line: $\phi 12.7$ ( 1/2" )         Flare connection         48       -         Both sides ), independent         Max.30         gher ) / Max.20 ( Outdoor unit is lower )         Hole $\phi 20 \times 5$ pcs         20
Air filter, Q Shock & vi Electric he Operation control Safety equ Safety equ nstallation Jata Drain pum Recomme R.A. (Loo nterconne	Auality / Quantity ibration absorber eater Remote control Room temperature Operation display upments Refrigerant piping Connecting metho Attached length of Insulation for pipin Refrigerant line (o Vertical height diff. be Drain hose up, max lift height ended breaker size cked rotor ampere)	size ( O.D d piping g ne way) lei etween O.U.	ngth and I.U.	m m m m A	Rubber sleeve (for fan motor Wirele Microco RUN: Green Compressor overheat Frost protection, Serial signal err Heating overload protection( High Liquid line: $\phi$ 6.35 ( Flare connection Liquid line : 0.55 / Gas line : 0. Necessary ( 1 Max.20 ( Outdoor unit is hig Hose connectable ( VP16 )	Rubber sleeve (for fan motor & compresson         -         ess remote control         computer thermostat         TIMER: Yellow , ECO: Blue         r protection, Overcurrent protection,         or protection, Indoor fan motor error protection,         pressure control ), Cooling overload protection         1/4")       Gas line: $\phi 12.7$ ( 1/2" )         Flare connection         48       -         Both sides ), independent         Max.30         gher ) / Max.20 ( Outdoor unit is lower )         Hole $\phi 20 \times 5$ pcs         20         5.0
Air filter, Q Shock & vi Electric he Operation control Safety equ Assistant Drain pum Recomme R.A. (Loo nterconne P number	Auality / Quantity ibration absorber eater Remote control Room temperature Operation display upments Refrigerant piping Connecting metho Attached length of Insulation for pipin Refrigerant line (of Vertical height diff. be Drain hose up, max lift height ended breaker size cked rotor ampere) ecting wires	size ( O.D d piping g ne way) lei etween O.U.	ngth and I.U.	m m m m A	Rubber sleeve (for fan motor - Wirele Microco RUN: Green , Compressor overheat Frost protection, Serial signal err Heating overload protection(High Liquid line: Ø6.35 ( Flare connection Liquid line: 0.55 / Gas line : 0. Necessary (1 Max.20 (Outdoor unit is higher Hose connectable (VP16) - 1.5mm <sup>2</sup> x 4 cores (Including ear IPX0	Rubber sleeve (for fan motor & compresson         -         ess remote control         computer thermostat         TIMER: Yellow , ECO: Blue         : protection, Overcurrent protection,         or protection, Indoor fan motor error protection         1/4")       Gas line: \$\$\phi12.7\$ (1/2")         Flare connection         48       -         Both sides ), independent         Max.30         gher ) / Max.20 (Outdoor unit is lower )         Hole \$\$\phi20\$ x 5 pcs
Air filter, Q Shock & vi Electric he Operation control Safety equ Safety equ nstallation data Drain pum Recomme R.A. (Loo nterconne P number Standard a	Auality / Quantity ibration absorber eater Remote control Room temperature Operation display upments Refrigerant piping Connecting metho Attached length of Insulation for pipin Refrigerant line (or Vertical height diff. be Drain hose pp, max lift height ended breaker size cked rotor ampere) ecting wires	size ( O.D d piping g ne way) lei etween O.U.	ngth and I.U.	m m m m A	Rubber sleeve (for fan motor - Wirele Microco RUN: Green , Compressor overheat Frost protection, Serial signal err Heating overload protection(High Liquid line: $\phi$ 6.35 ( Flare connection Liquid line: 0.55 / Gas line : 0. Necessary (1 Max.20 (Outdoor unit is high Hose connectable (VP16) - 1.5mm <sup>2</sup> x 4 cores (Including ear IPX0 Mounting kit, Clean filter (Allergen clean	Rubber sleeve (for fan motor & compresson         -         ess remote control         computer thermostat         TIMER: Yellow , ECO: Blue         : protection, Overcurrent protection,         or protection, Indoor fan motor error protection         1/4")       Gas line: \$\$\phi12.7\$ (1/2")         Flare connection         48       -         Both sides ), independent         Max.30         gher ) / Max.20 (Outdoor unit is lower )         Hole \$\$\phi20\$ x 5 pcs
Air filter, Q Shock & vi Electric he Operation control Safety equ Safety equ nstallation data Drain pum Recomme R.A. (Loo nterconne P number Standard a	Auality / Quantity ibration absorber eater Remote control Room temperature Operation display upments Refrigerant piping Connecting metho Attached length of Insulation for pipin Refrigerant line (or Vertical height diff. be Drain hose pp, max lift height ended breaker size cked rotor ampere) ecting wires	size ( O.D d piping g ne way) lei etween O.U. Size x Core	ngth and I.U. e number	m m m A A	Rubber sleeve (for fan motor - Wirele Microco RUN: Green , Compressor overheat Frost protection, Serial signal err Heating overload protection(High Liquid line: Ø6.35 ( Flare connection Liquid line: 0.55 / Gas line : 0. Necessary (1 Max.20 (Outdoor unit is hig Hose connectable (VP16) - 1.5mm <sup>2</sup> x 4 cores (Including ear IPX0 Mounting kit, Clean filter (Allergen cleal Interface	Rubber sleeve (for fan motor & compression         -         ess remote control         computer thermostat         TIMER: Yellow , ECO: Blue         : protection, Overcurrent protection,         or protection, Indoor fan motor error protection         nor protection, Indoor fan motor error protection         1/4")       Gas line: $\phi 12.7 (1/2")$ Flare connection         48       -         Both sides ), independent         Max.30         gher ) / Max.20 (Outdoor unit is lower )         Hole $\phi 20 \times 5 \text{ pcs}$ 20         5.0         th cable ) / Terminal block (Screw fixing type )         IPX4
Air filter, Q Shock & vi Electric he Operation control Safety equ Installation data Drain pum Recomme L.R.A. (Loo Interconne IP number Standard a Option par	Auality / Quantity ibration absorber eater Remote control Room temperature Operation display upments Refrigerant piping Connecting metho Attached length of Insulation for pipin Refrigerant line (or Vertical height diff. be Drain hose no, max lift height ended breaker size cked rotor ampere) ecting wires r accessories rts (1) The data are m	size ( O.D d piping g ne way) le etween O.U. Size x Core	ngth and I.U. e number t the follow	m m mm A A ing con	Rubber sleeve (for fan motor Wirele Microco RUN: Green , Compressor overheat Frost protection, Serial signal err Heating overload protection(High Liquid line: $\phi$ 6.35 ( Flare connection Liquid line: $\phi$ 6.35 ( Flare connection Liquid line: $0.55$ / Gas line : 0. Necessary (1 Max.20 (Outdoor unit is hig Hose connectable (VP16) 	Rubber sleeve (for fan motor & compresson         -         ess remote control         computer thermostat         TIMER: Yellow , ECO: Blue         : protection, Overcurrent protection,         or protection, Indoor fan motor error protection,         pressure control ), Cooling overload protection         1/4")       Gas line: $\phi 12.7 (1/2")$ Flare connection         48       -         Both sides ), independent         Max.30         gher ) / Max.20 (Outdoor unit is lower )         Hole $\phi 20 x 5 \text{ pcs}$ 20         5.0         th cable ) / Terminal block (Screw fixing type )         IPX4         r filter x 1, Photocatalytic washable deodorizing filter x 1         e kit (SC-BIKN2-E)         pipe length is 5m.
Air filter, Q Shock & vi Electric he Operation control Safety equ Installation data Drain pum Recomme L.R.A. (Loo Interconne IP number Standard a Option par	Auality / Quantity ibration absorber eater Remote control Room temperature Operation display upments Refrigerant piping Connecting metho Attached length of Insulation for pipin Refrigerant line (or Vertical height diff. be Drain hose no, max lift height ended breaker size cked rotor ampere) ecting wires r accessories rts (1) The data are m	size ( O.D d piping g ne way) lei etween O.U. Size x Core	ngth and I.U. e number t the follow	m m mm A A ing con	Rubber sleeve (for fan motor - Wirele Microco RUN: Green , Compressor overheat Frost protection, Serial signal err Heating overload protection(High Liquid line: Ø6.35 ( Flare connection Liquid line: 0.55 / Gas line : 0. Necessary (1 Max.20 (Outdoor unit is hig Hose connectable (VP16) - 1.5mm <sup>2</sup> x 4 cores (Including ear IPX0 Mounting kit, Clean filter (Allergen cleal Interface	Rubber sleeve (for fan motor & compresson
Air filter, Q Shock & vi Electric he Operation control Safety equ Installation data Drain pum Recomme L.R.A. (Loo Interconne IP number Standard a Option par	Auality / Quantity ibration absorber eater Remote control Room temperature Operation display Jupments Refrigerant piping Connecting metho Attached length of Insulation for pipin Refrigerant line (or Vertical height diff. be Drain hose op, max lift height ended breaker size cked rotor ampere) ecting wires r accessories rts (1) The data are m	size ( O.D d piping g ne way) le etween O.U. Size x Core Size x Core easured at ndoor air te DB	ngth and I.U. e number t the follow emperature WB	m m mm A A ing con	Rubber sleeve (for fan motor - Wirele Microco RUN: Green , Compressor overheat Frost protection, Serial signal err Heating overload protection(High Liquid line: $\phi$ 6.35 ( Flare connection Liquid line : 0.55 / Gas line : 0. Necessary (1 Max.20 (Outdoor unit is high Hose connectable (VP16) - 1.5mm <sup>2</sup> x 4 cores (Including ear IPX0 Mounting kit, Clean filter (Allergen clean Interfact ditions. The Dutdoor air temperature DB WB	Rubber sleeve (for fan motor & compresson         -         ess remote control         computer thermostat         TIMER: Yellow , ECO: Blue         : protection, Overcurrent protection,         or protection, Indoor fan motor error protection         1/4")       Gas line: $\phi 12.7 (1/2")$ Flare connection         1/4")       Gas line: $\phi 12.7 (1/2")$ Flare connection         48       -         Both sides ), independent         Max.30         gher ) / Max.20 (Outdoor unit is lower )         Hole $\phi 20 \times 5 \text{ pcs}$ -         20         5.0         th cable ) / Terminal block (Screw fixing type )         IPX4         rifler x 1, Photocatalytic washable deodorizing filter x 1 )         e kit (SC-BIKN2-E )         pipe length is 5m.         Standards
Shock & vi Electric he Operation control Safety equ Installation data Drain pum Recomme L.R.A. (Loo Interconne IP number Standard a Option par	Auality / Quantity ibration absorber eater Remote control Room temperature Operation display upments Refrigerant piping Connecting metho Attached length of Insulation for pipin Refrigerant line (or Vertical height diff. be Drain hose up, max lift height meded breaker size cked rotor ampere) ecting wires r accessories rts (1) The data are m Operation	size ( O.D d piping g ne way) le etween O.U. Size x Core Size x Core Size x Core DB 27°C	ngth and I.U. e number t the follow	m m mm A A ing con	Rubber sleeve (for fan motor         -         Wirele         Microco         RUN: Green ,         Compressor overheat         Frost protection, Serial signal err         Heating overload protection(High         Liquid line: Ø6.35 (         Flare connection         Liquid line : 0.55 / Gas line : 0.         Necessary (1         Max.20 (Outdoor unit is high         Hose connectable (VP16)         -         1.5mm <sup>2</sup> x 4 cores (Including ear         IPX0         Mounting kit, Clean filter (Allergen clean         Interface         ditions.       The         DB       WB         35°C       24°C	Rubber sleeve (for fan motor & compresson         -         ess remote control         computer thermostat         TIMER: Yellow , ECO: Blue         : protection, Overcurrent protection,         or protection, Indoor fan motor error protection         1/4")       Gas line: $\phi 12.7$ ( $1/2"$ )         Flare connection         1/4")       Gas line: $\phi 12.7$ ( $1/2"$ )         Flare connection         48       -         Both sides ), independent         Max.30         gher ) / Max.20 (Outdoor unit is lower )         Hole $\phi 20 \times 5$ pcs         -         20         5.0         th cable ) / Terminal block (Screw fixing type )         IPX4         r filter x 1, Photocatalytic washable deodorizing filter x 1 )         e kit (SC-BIKN2-E)         pipe length is 5m.         Standards         ISO5151-T1
Air filter, Q Shock & vi Electric he Operation control Safety equ Installation data Drain pum Recomme L.R.A. (Loo Interconne IP number Standard a Option par	Auality / Quantity ibration absorber eater Remote control Room temperature Operation display Jupments Refrigerant piping Connecting metho Attached length of Insulation for pipin Refrigerant line (or Vertical height diff. be Drain hose p, max lift height ended breaker size cked rotor ampere) ecting wires r accessories rts (1) The data are m Operation Cooling Heating	size ( O.D d piping g ne way) le etween O.U. Size x Core Size x Core easured at ndoor air te DB	ngth and I.U. e number t the follow emperature WB	m m mm A A ing con	Rubber sleeve (for fan motor - Wirele Microco RUN: Green , Compressor overheat Frost protection, Serial signal err Heating overload protection(High Liquid line: $\phi$ 6.35 ( Flare connection Liquid line : 0.55 / Gas line : 0. Necessary (1 Max.20 (Outdoor unit is high Hose connectable (VP16) - 1.5mm <sup>2</sup> x 4 cores (Including ear IPX0 Mounting kit, Clean filter (Allergen clean Interfact ditions. The Dutdoor air temperature DB WB	Rubber sleeve (for fan motor & compressor

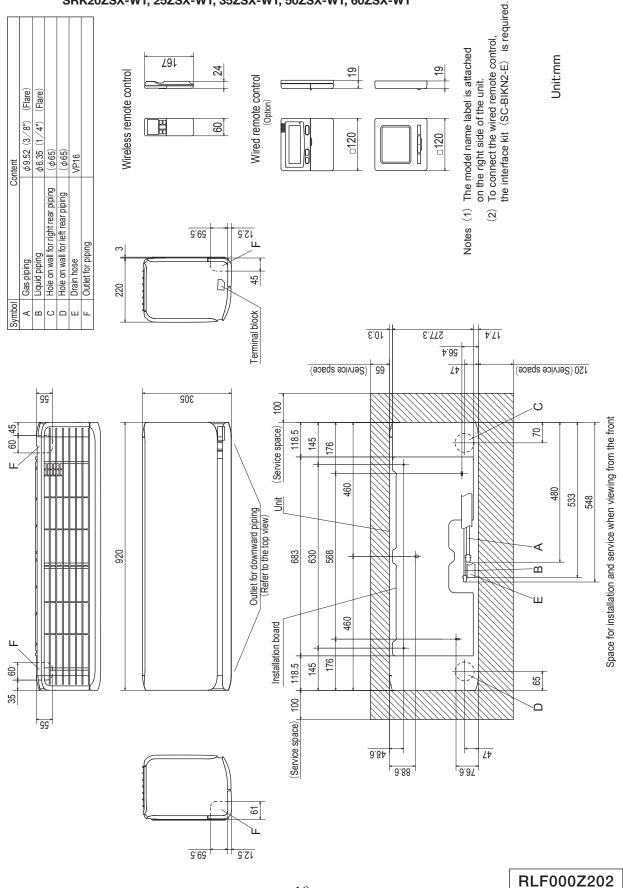
(3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

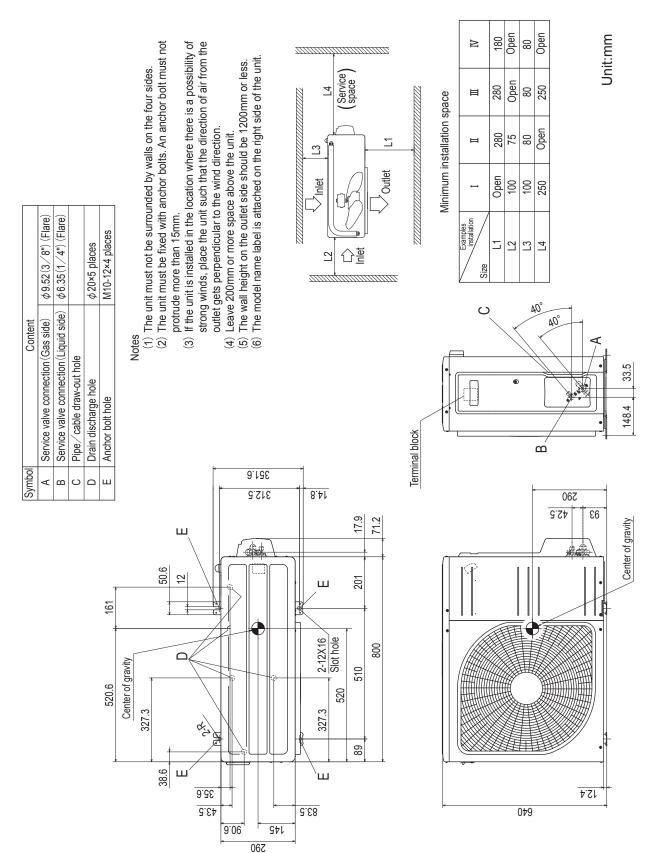
(4) Select the breaker size according to the own national standard.

# 2. EXTERIOR DIMENSIONS

## (1) Indoor units

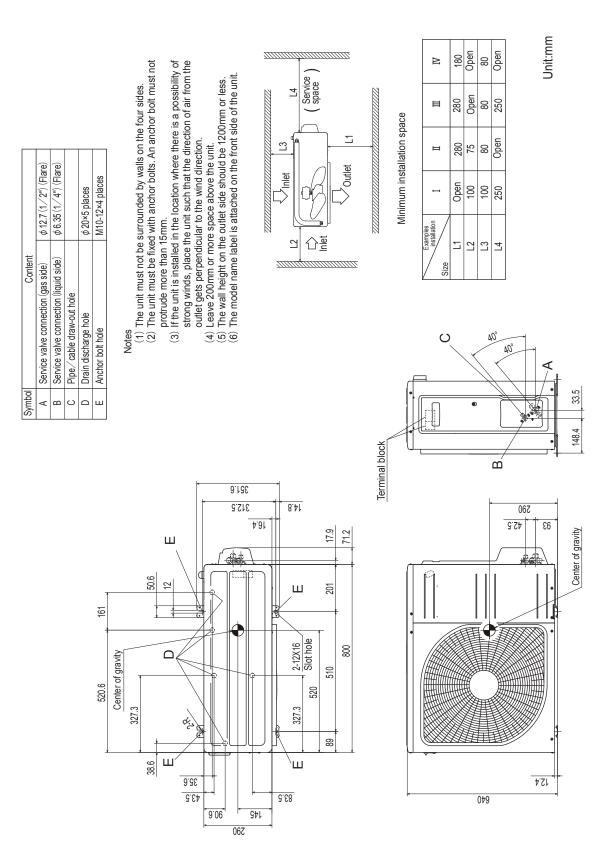
Models SRK20ZSX-W, 25ZSX-W, 35ZSX-W, 50ZSX-W, 60ZSX-W SRK20ZSX-WB, 25ZSX-WB, 35ZSX-WB, 50ZSX-WB, 60ZSX-WB SRK20ZSX-WT, 25ZSX-WT, 35ZSX-WT, 50ZSX-WT, 60ZSX-WT





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

RCT000Z025



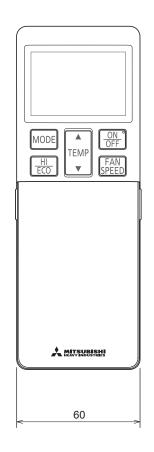
#### Models SRC50ZSX-W, 60ZSX-W

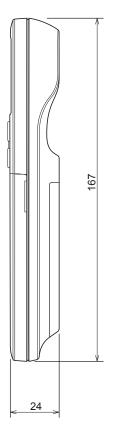
RCT000Z026

#### (3) Remote control

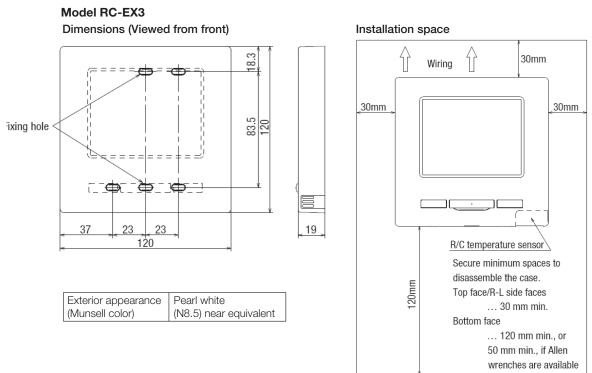
#### (a) Wireless remote control

Unit : mm





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



#### Cautions for selecting installation place

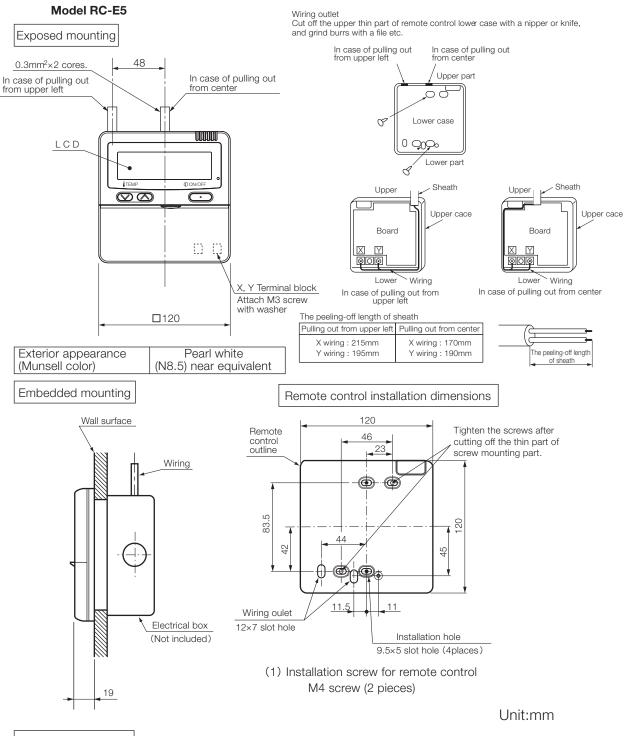
- (1) Installation surface must be flat and sufficiently strong. R/C case must not be deformed.
- (2) Where the R/C can detect room temperatures accurately This is a must when detecting room temperatures with the temperature sensor of R/C.
  - $\cdot$  Install the R/C where it can detect the average temperature in the room.
  - Install the R/C sufficiently separated from a heat source.
     Install the R/C where it will not be influenced by the
  - turbulence of air when the door is opened or closed.

Select a place where the R/C is not exposed to direct sunlight or blown by winds from the air-conditioner or temperatures on the wall surface will not deviate largely from indoor air temperatures. R/C cable: 0.3mm<sup>2</sup> × 2 cores

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

< 200 m	$0.5 \text{ mm}^2 \times 2 \text{ cores}$
< 300 m	$0.75 \text{ mm}^2 \times 2 \text{ cores}$
< 400 m	$1.25 \text{ mm}^2 \times 2 \text{ cores}$
< 600 m	$2.0 \text{ mm}^2 \times 2 \text{ cores}$

Adapted to RoHS directive



#### Wiring specifications

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

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

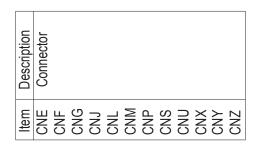
Length	Wiring thickness
100 to 200m	0.5mm <sup>2</sup> ×2 cores
Under 300m	0.75mm <sup>2</sup> ×2 cores
Under 400m	1.25mm <sup>2</sup> ×2 cores
Under 600m	2.0mm <sup>2</sup> ×2 cores

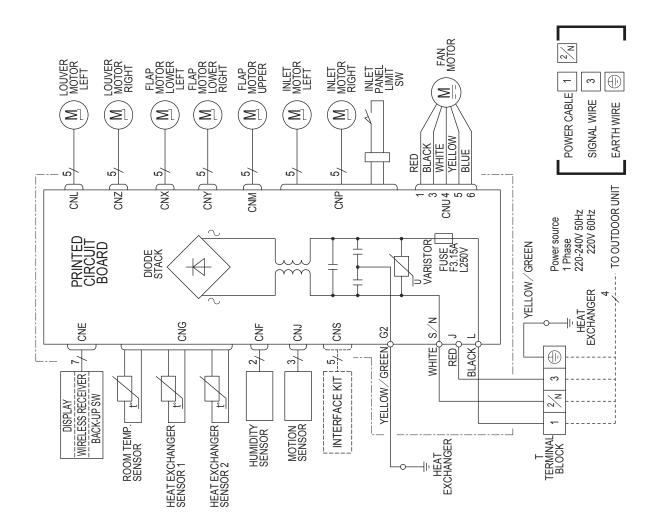
PJZ000Z295

# **3. ELECTRICAL WIRING**

(1) Indoor units

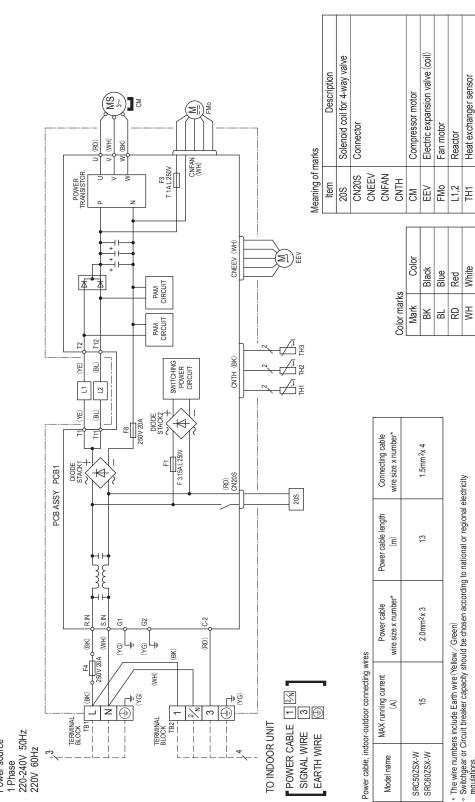
Models SRK20ZSX-W, 25ZSX-W, 35ZSX-W, 50ZSX-W, 60ZSX-W SRK20ZSX-WB, 25ZSX-WB, 35ZSX-WB, 50ZSX-WB, 60ZSX-WB SRK20ZSX-WT, 25ZSX-WT, 35ZSX-WT, 50ZSX-WT, 60ZSX-WT





PCB ASSY PCB1	Item Description	S 4-way valve (coil)	CN20S Connector CNEEV CNFAN	CNTH	Compressor motor	V Electric expansion valve (coil)	lo Fan motor	Reactor	2 Heat exchanger sensor	3 Outdoor air temp. sensor	4 Discharge pipe temp. sensor
		20S	555	5 5	S	EEV	FMo	-	TH2	TH3	TH4
EEV (WH)				rks	Color	Black	Red	White	Orange	Yellow	Yellow/Green
				Color marks	Mark	¥	8	HM	R	ΥE	УG
				0							
			Connecting cable wire size x number*		1.5mm <sup>2</sup> x 4		ol alaatriaitu	ומו בובכוו ומול	Iduit is used	lations.	
			Power cable length (m)		53		* The wire numbers include earth wire (Yellow/Green)	uirig to riational of region	on the assumption that a metal or plastic conduit is used	r regional electricity regu	)
			Power cable wire size x number*		2.0mm <sup>∠</sup> x 3		Yellow/Green)	פווסחות הב מוסצבוו מכנסו	sed on the assumption t	se follow the national or	
		Power cable indoor-outdoor connecting wires	MAX running current (A)		6		ers include earth wire	uruur preaker capacity :	• The power cable specifications are based	falling outside of these conditions, please	
Power source 1 Phase 2200 50Hz 2200 60Hz 2200 60Hz 200 60Hz 4 4 10 10 10 10 10 10 10 10 10 10 10 10 10		Power cable indoc	Model name	SRC20ZSX-S	SRC252SX-S	0-20200010	* The wire numb	regulations.	<ul> <li>The power cab</li> <li>with po more the</li> </ul>	falling outside c	ı

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



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

RWC000Z306

'18 • SRK-T-234

Discharge pipe temp. sensor Outdoor air temp. sensor

ΤH2 TH3

Yellow

Yellow / Green

ĥ 끳

Power source

Models SRC50ZSX-W, 60ZSX-W

# 4. NOISE LEVEL

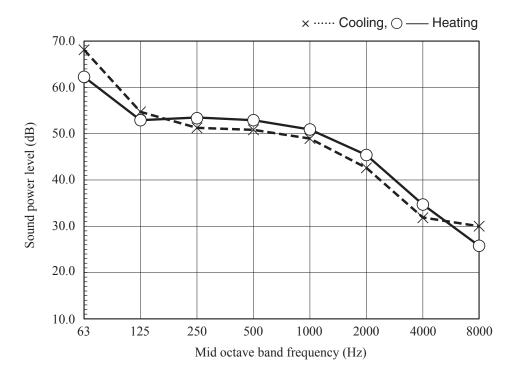
## (1) Sound power level

Model SRK20ZSX-W, -WB, -WT

(Indoor Unit)

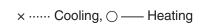
`	/						
Model	SRK20ZSX-W, -WB, -WT						
Noise	Cooling	53 dB(A)					
Level	Heating	55 dB(A)					

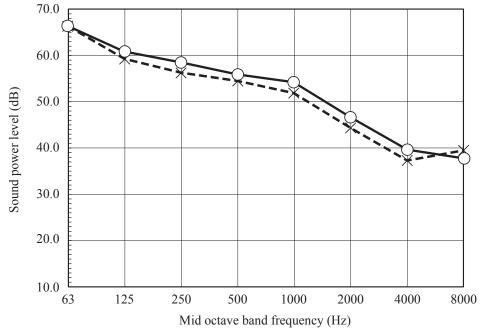
Condition	ISO5151 T1/H1
MODE	Rated capacity value (Hi)



	1 1 11
(Outdoor	Unit)

Model	SRC20ZSX-W					
Noise	Cooling	56 dB(A)				
Level	Heating	58 dB(A)				





### Model SRK25ZSX-W, -WB, -WT

(Indoor	Unit)
---------	-------

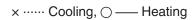
Model	SRK25ZSX-W, -WB, -WT		
Noise	Cooling	55 dB(A)	
Level	Heating	56 dB(A)	

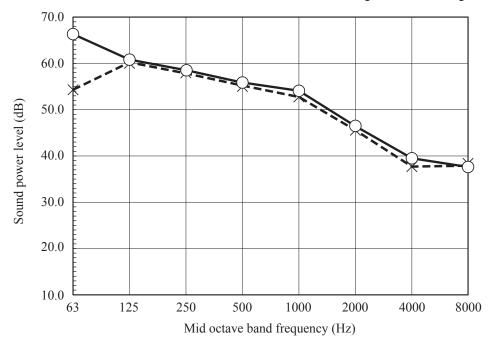
Condition	ISO5151 T1/H1
MODE	Rated capacity value (Hi)

	70.0			×	····· Cool	ing, $\bigcirc$ —	- Heating
	60.0						
el (dB)	> 50.0		 <b>}</b> (			2	
Sound power level (dB)	40.0				7		
Sound p	30.0	-				7	
	20.0						×
	10.0 6	3 12		00 10 band freq			00 8000

	1.1
(Outdoor	Unit)

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





#### Model SRK35ZSX-W, -WB, -WT

(Indoor	Unit)
---------	-------

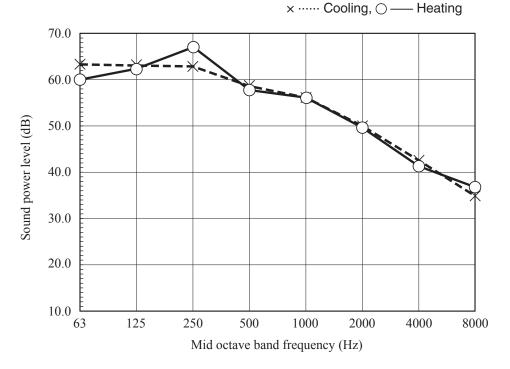
Model	SRK35	ZSX-W, -WB, -WT
Noise	Cooling	58 dB(A)
Level	Heating	58 dB(A)

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

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

1	Outdoor	(timit)
	Outdoor	UIIII)

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



### Model SRK50ZSX-W, -WB, -WT

(Indoor Unit)
---------------

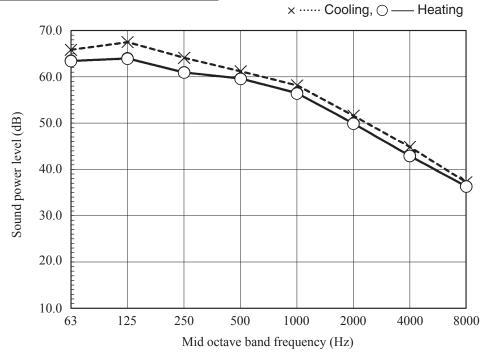
Model	SRK50ZSX-W, -WB, -WT	
Noise	Cooling	59 dB(A)
Level	Heating	62 dB(A)

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

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

(Outdoor	<sup>-</sup> Unit)

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



#### Model SRK60ZSX-W, -WB, -WT

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

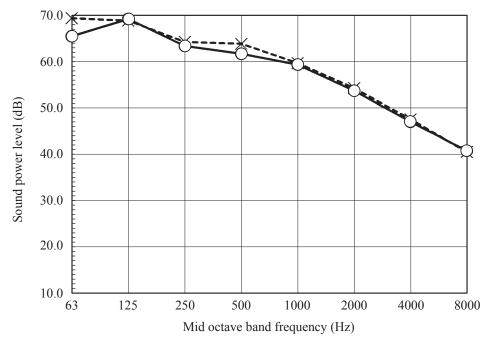
Condition	ISO5151 T1/H1
MODE	Rated capacity value (Hi)

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

(Outdoor Unit)

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





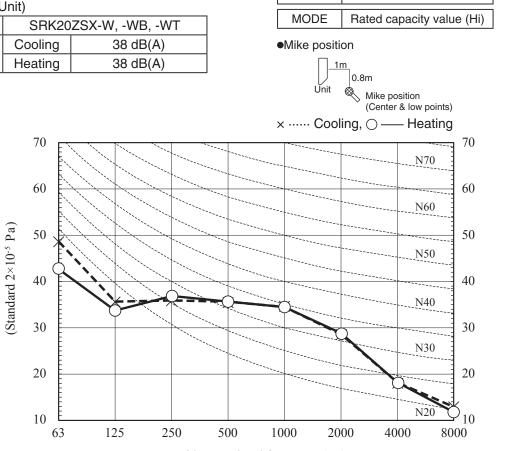
#### (2) Sound pressure level

#### (a) Rated capacity value

Model SRK20ZSX-W, -WB, -WT

(Indoor Unit)

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



Condition

ISO5151 T1/H1

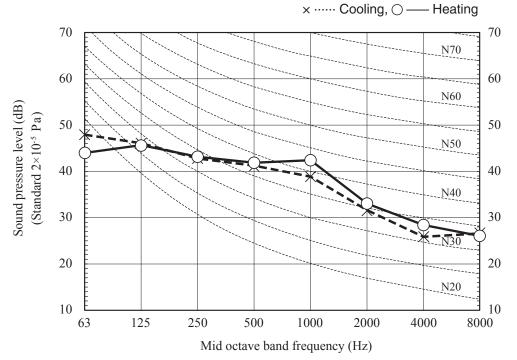
Mid octave band frequency (Hz)

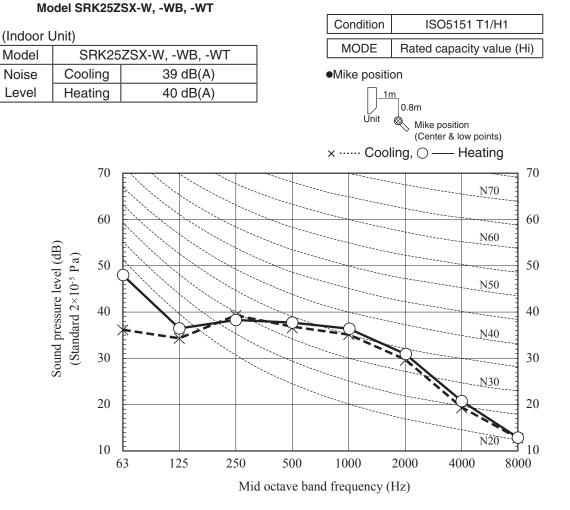
(Outdoor Unit)

Sound pressure level (dB)

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

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

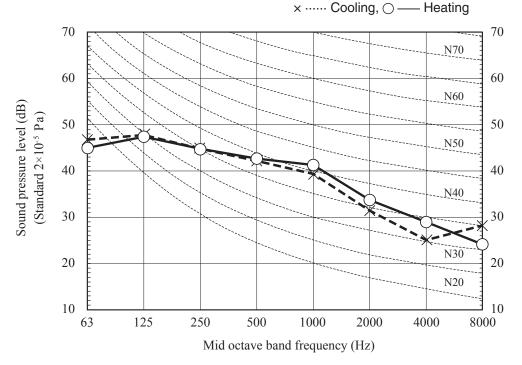


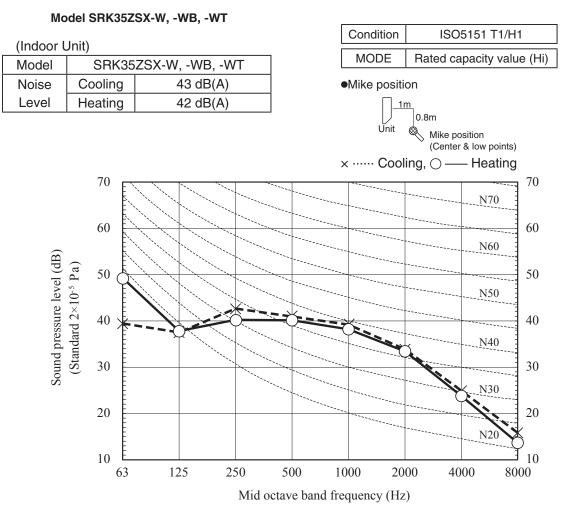


(Outdoor Unit)

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

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

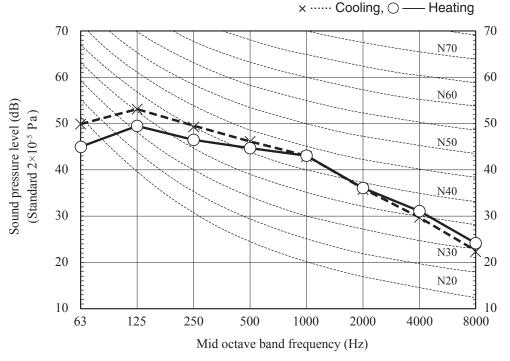


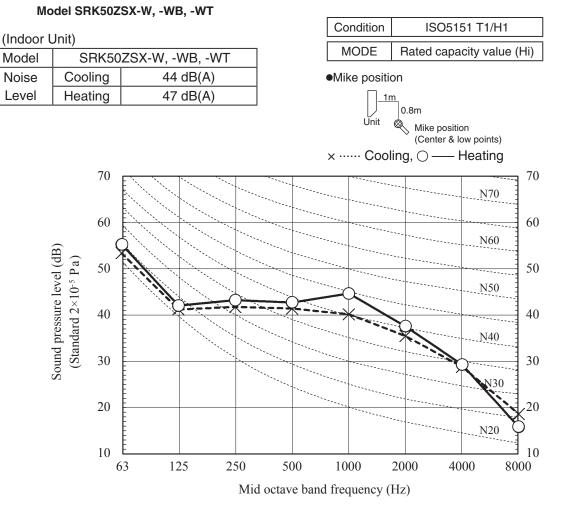


(Outdoor Unit)

Model	SRC35ZSX-W		•
Noise	Cooling	48 dB(A)	
Level	Heating	47 dB(A)	

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

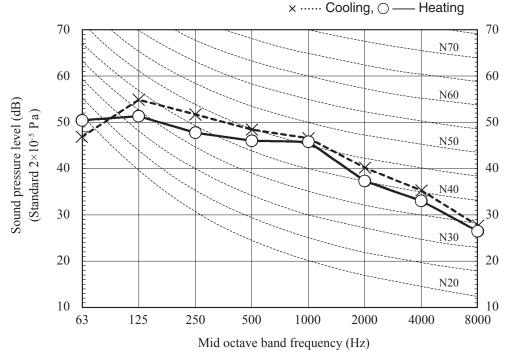


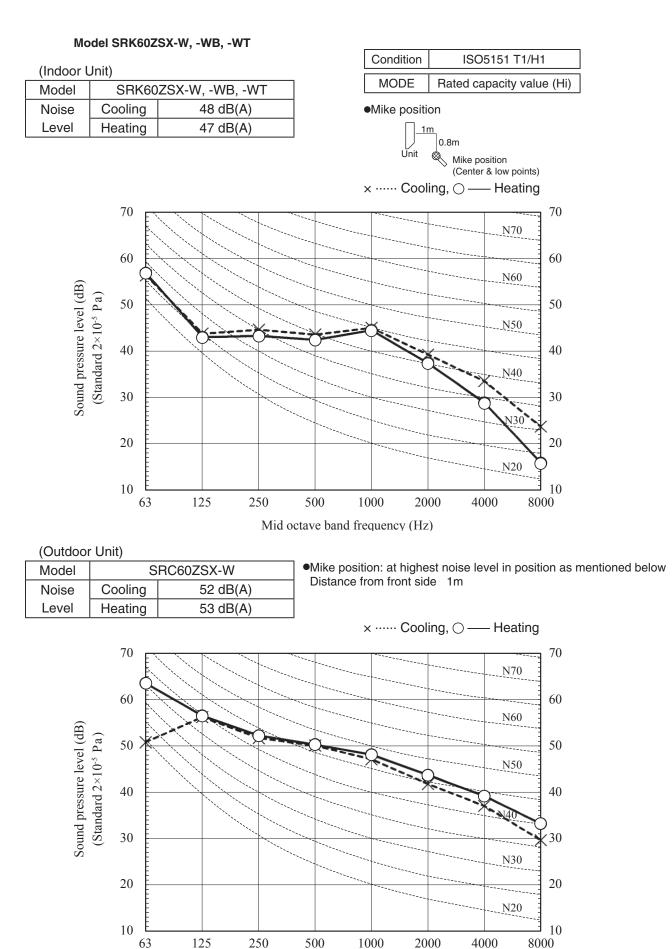


(Outdoor Unit)

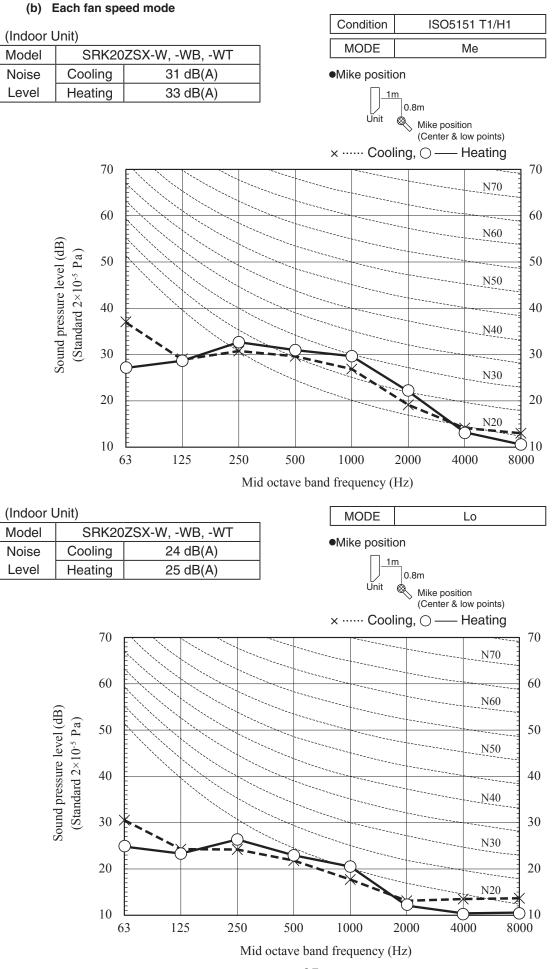
Model	SRC50ZSX-W		
Noise	Cooling 51 dB(A)		
Level	Heating	49 dB(A)	

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

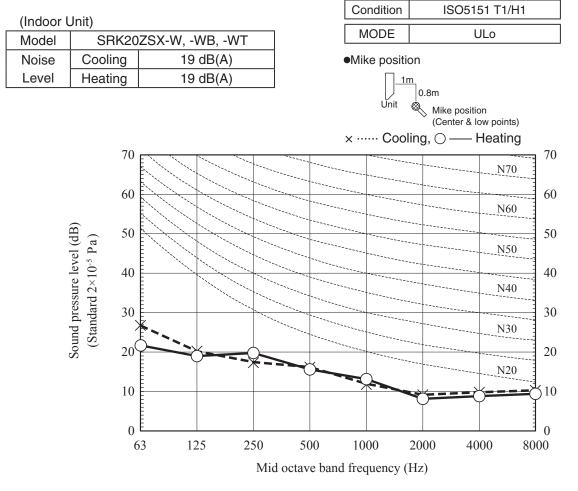




Mid octave band frequency (Hz)



## - 37 -

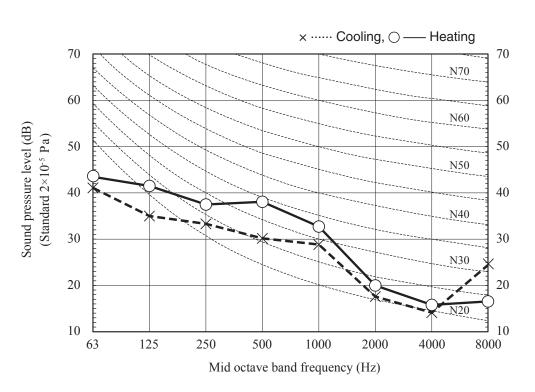


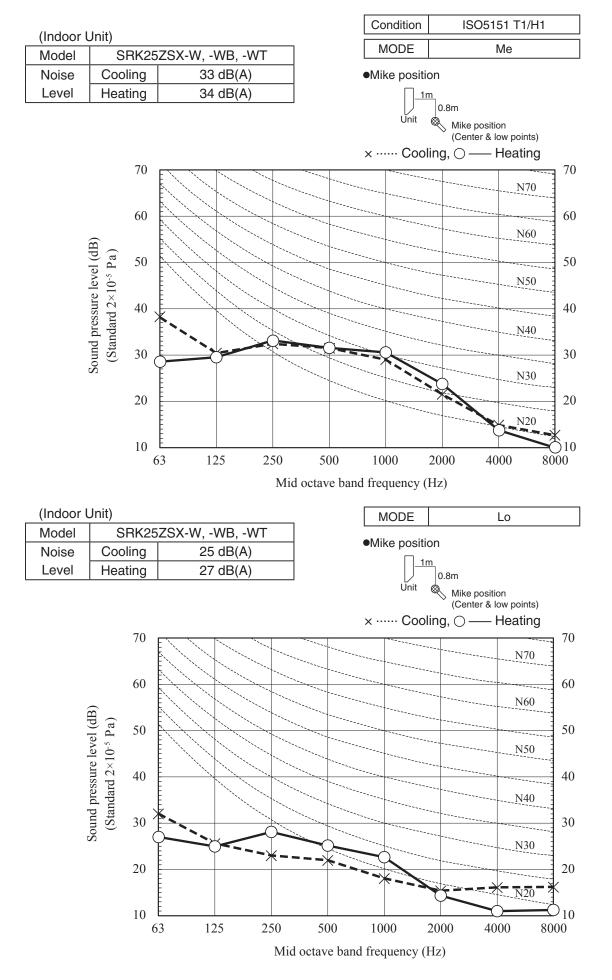
(Outdoor	<sup>r</sup> Unit)

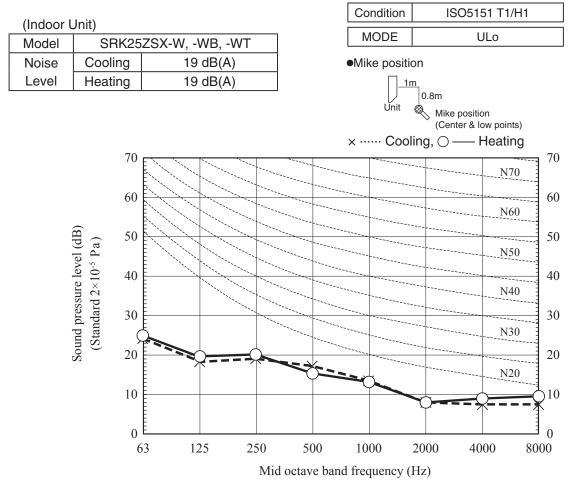
Model	SRC20ZSX-W		
Noise	Cooling	33 dB(A)	
Level	Heating	38 dB(A)	

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

Silent





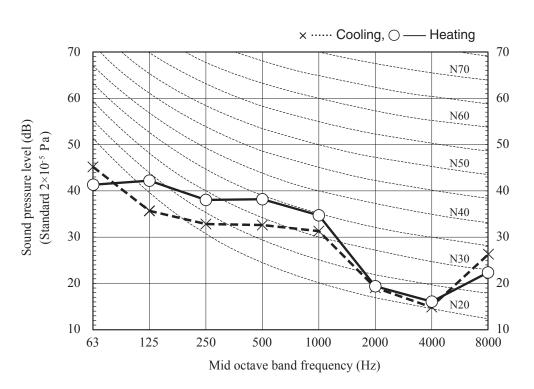


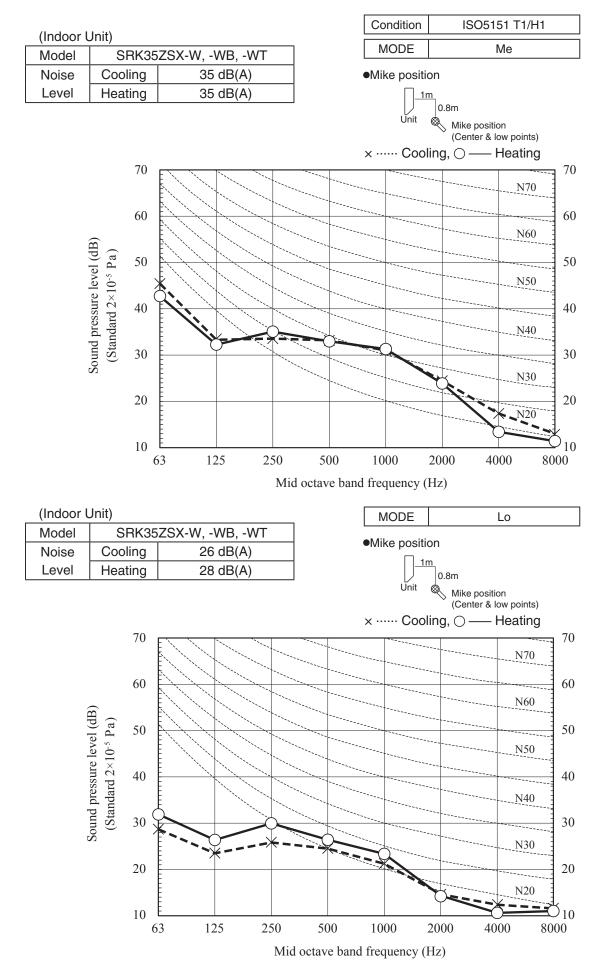
(0	utdoo	r Unit)

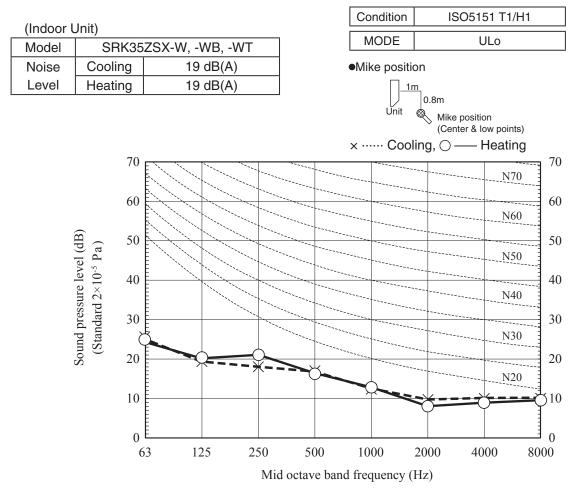
()				
Model	SRC25ZSX-W Cooling 35 dB(A)			
Noise				
Level	Heating	39 dB(A)		

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

Silent





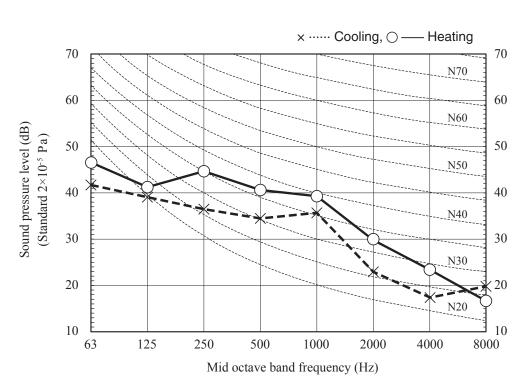


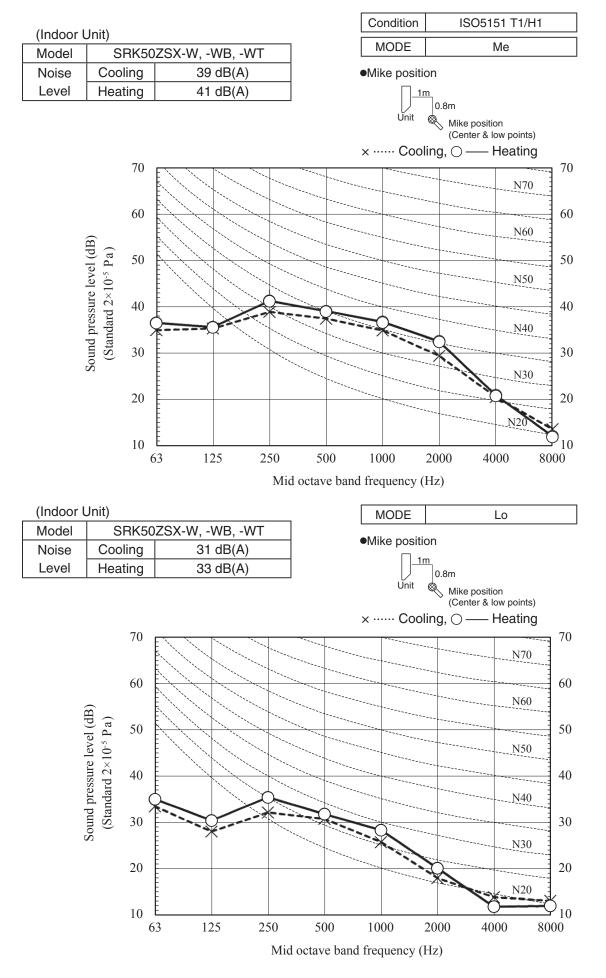
(Ot	utdooi	r Unit)

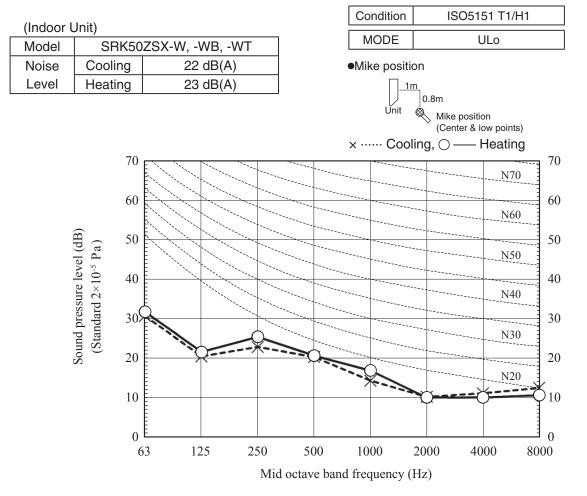
Model	SRC35ZSX-W		
Noise	Cooling	38 dB(A)	
Level	Heating	43 dB(A)	

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

Silent





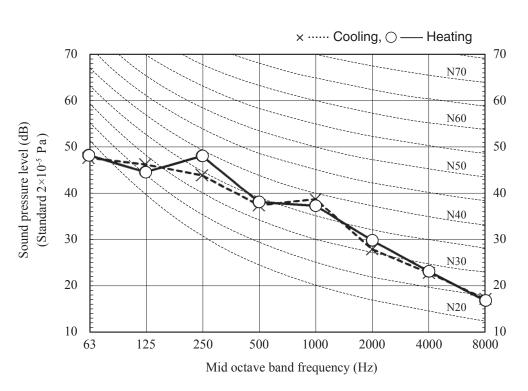


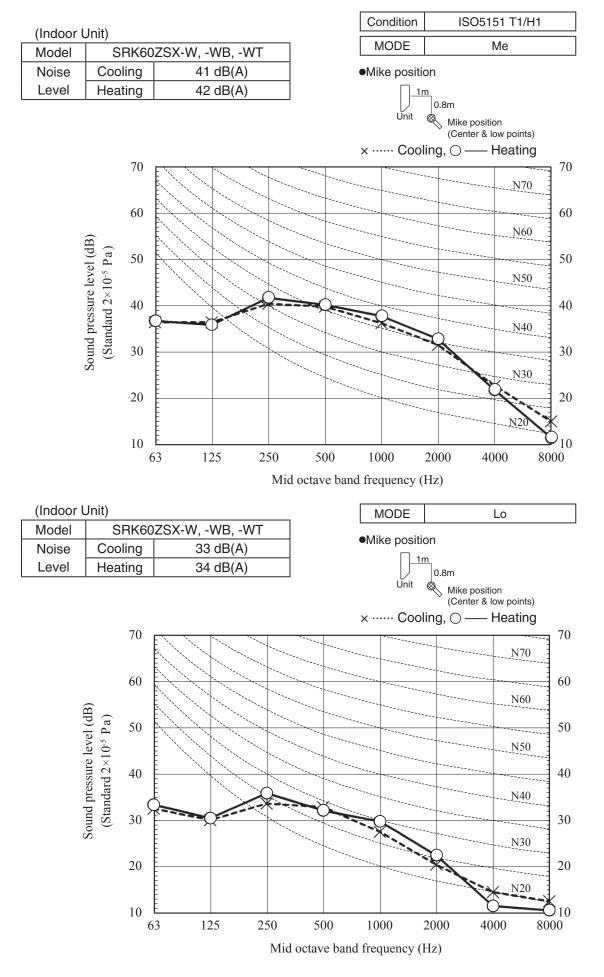
(	Ou	tc	loor	Unit)
	-			

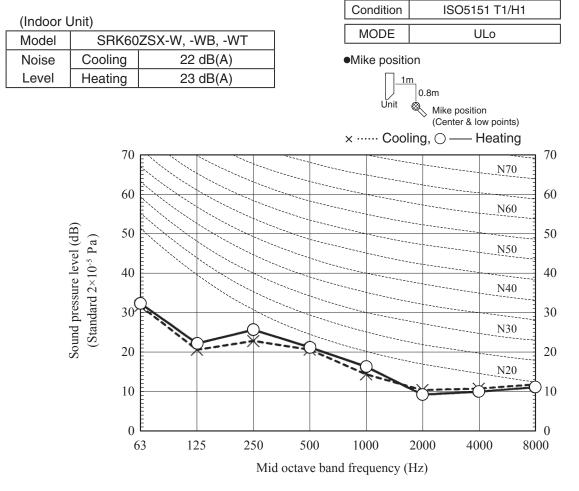
(				
Model	SRC50ZSX-W			
Noise	Cooling 42 dB(A)			
Level	Heating 43 dB(A)			

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

Silent







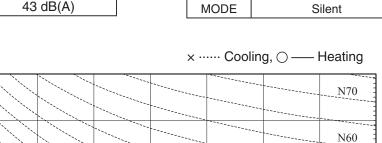
(Outdoor	r Unit)
Maria I.	

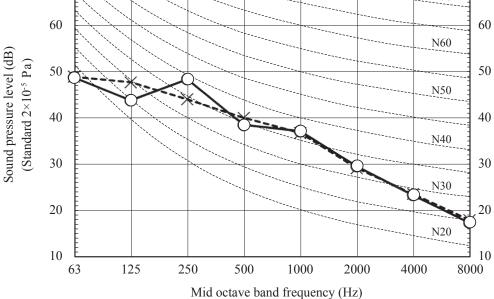
Model	SRC60ZSX-W		
Noise	Cooling 42 dB(A)		
Level	Heating	43 dB(A)	

70

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

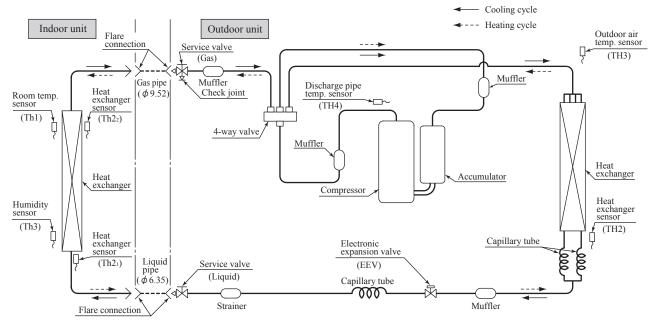
70



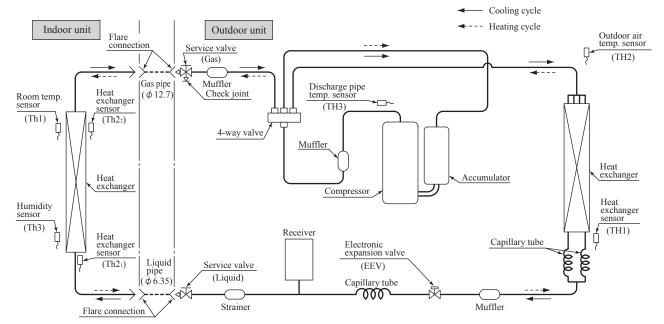


# 5. PIPING SYSTEM

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



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



# 6. RANGE OF USAGE & LIMITATIONS

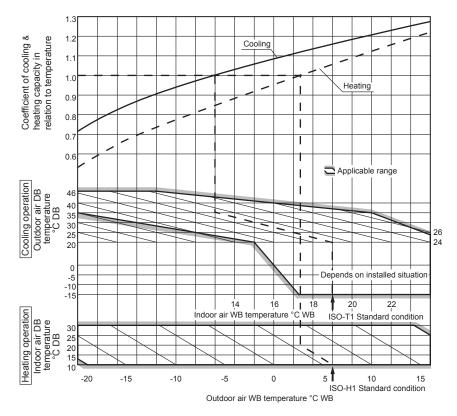
Model	SRK20, 25, 35ZSX-W SRK20, 25, 35ZSX-WB SRK20, 25, 35ZSX-WT	SRK50, 60ZSX-W SRK50, 60ZSX-WB SRK50, 60ZSX-WT	
Indoor return air temperature (Upper, lower limits)	Cooling operation : Approximately 18 to 32°C DB Heating operation : Approximately 10 to 30°C DB (Refer to the selection chart)		
Outdoor air temperature (Upper, lower limits)	Cooling operation : Approximately -15 to 46°C DB Heating operation : Approximately -20 to 24°C DB (Refer to the selection chart)		
Refrigerant line (one way) length	Max. 25m	Max. 30m	
Vertical height difference between outdoor unit and indoor unit	Max. 15m (Outdoor unit is higher) Max. 15m (Outdoor unit is lower)	Max. 20m (Outdoor unit is higher) Max. 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)		
ON and OFF interval	Min. 3 minutes		

## **Selection chart**

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

Net capacity = Capacity shown on specification  $\times$  Correction factors as follows.

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



## (2) Correction of cooling and heating capacity in relation to one way length of refrigerant piping

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

Piping length [m]	7	10	15	20	25	30
Cooling	1.0	0.99	0.975	0.965	0.95	0.935
Heating	1.0	1.0	1.0	1.0	1.0	1.0

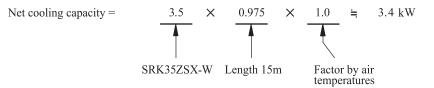
## (3) Correction relative to frosting on outdoor heat exchanger during heating

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

Air inlet temperature of outdoor unit in °CWB	-20	-15	-10	-9	-7	-5	-3	-1	1	3	5 or more
Adjustment coefficient	0.95	0.95	0.95	0.94	0.93	0.91	0.88	0.86	0.87	0.92	1.00

## How to obtain the cooling and heating capacity

Example : The net cooling capacity of the model SRK35ZSX-W with the piping length of 15m, indoor wet-bulb temperature at  $19.0^{\circ}$ C and outdoor dry-bulb temperature  $35^{\circ}$ C is



# 7. CAPACITY TABLES

## Model SRK20ZSX-W, -WB, -WT

							Indo	or air t	empera	iture					
Air flow	Outdoor	21°C	DB	23°C	DB	26°0	CDB	27°C	CDB	28°0	DB	31°(	CDB	33°0	CDB
AIF HOW	air temperature	14°C	WB	16°C	WB	18°C	CWB	19°C	CWB	20°C	WB	22°C	CWB	24°C	CWB
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
	10	2.25	2.12	2.36	2.09	2.45	2.19	2.49	2.17	2.53	2.14	2.60	2.26	2.67	2.21
	12	2.21	2.10	2.32	2.07	2.41	2.18	2.45	2.16	2.50	2.14	2.58	2.26	2.65	2.20
	14	2.17	2.06	2.28	2.05	2.38	2.17	2.42	2.15	2.47	2.12	2.55	2.24	2.62	2.20
	16	2.13	2.02	2.24	2.03	2.34	2.15	2.39	2.13	2.43	2.11	2.52	2.23	2.59	2.17
	18	2.08	1.98	2.19	2.01	2.30	2.14	2.35	2.12	2.40	2.10	2.49	2.22	2.56	2.16
	20	2.04	1.94	2.15	2.00	2.26	2.13	2.31	2.11	2.36	2.09	2.45	2.20	2.53	2.15
	22	1.99	1.89	2.10	1.97	2.22	2.11	2.28	2.10	2.32	2.08	2.42	2.19	2.50	2.14
	24	1.94	1.85	2.05	1.95	2.18	2.07	2.24	2.09	2.28	2.07	2.38	2.18	2.47	2.14
	26	1.90	1.80	2.01	1.91	2.14	2.03	2.20	2.07	2.24	2.05	2.35	2.17	2.43	2.13
	28	1.85	1.75	1.96	1.86	2.09	1.99	2.15	2.05	2.20	2.04	2.31	2.16	2.40	2.12
Hi	30	1.79	1.70	1.90	1.81	2.05	1.94	2.11	2.01	2.16	2.02	2.27	2.15	2.36	2.11
11.3	32	1.74	1.65	1.85	1.76	2.00	1.90	2.07	1.96	2.12	2.00	2.23	2.12	2.32	2.10
(m <sup>3</sup> /min)	34	1.69	1.60	1.80	1.71	1.95	1.85	2.02	1.92	2.07	1.97	2.19	2.08	2.28	2.09
(m /mn)	35	1.66	1.58	1.77	1.68	1.93	1.83	2.00	1.90	2.05	1.94	2.17	2.06	2.26	2.08
	36	1.63	1.55	1.74	1.65	1.90	1.81	1.98	1.88	2.02	1.92	2.15	2.04	2.24	2.08
	38	1.58	1.50	1.68	1.60	1.85	1.76	1.93	1.83	1.98	1.88	2.11	2.00	2.20	2.07
	39	1.55	1.47	1.66	1.57	1.83	1.74	1.91	1.81	1.95	1.85	2.08	1.98	2.18	2.06
	40	1.52	1.44	1.63	1.55	1.80	1.71	1.88	1.79	1.93	1.83	2.06	1.96	2.16	2.05
	41	1.49	1.42	1.60	1.52	1.77	1.69	1.86	1.76	1.90	1.81	2.04	1.94	2.14	2.03
	42	1.46	1.39	1.57	1.49	1.75	1.66	1.83	1.74	1.88	1.78	2.02	1.92	2.11	2.01
	43	1.43	1.36	1.54	1.46	1.72	1.64	1.81	1.72	1.85	1.76	1.99	1.89	2.09	1.99
	44	1.40	1.33	1.51	1.43	1.69	1.61	1.78	1.69	1.83	1.74	1.97	1.87	2.07	1.96
	45	1.37	1.30	1.48	1.40	1.67	1.58	1.76	1.67	1.80	1.71	1.95	1.85	2.04	1.94
	46	1.34	1.27	1.44	1.37	1.64	1.56	1.73	1.64	1.77	1.69	1.92	1.83	2.02	1.92

Cooling mode

(kW)

I	Heating mode (H	IC)				(kW)
Air flow	Outdoor air		Indoo	or air temper	rature	
	temperature	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB
	-20°CWB	1.44	1.40	1.35	1.32	1.28
	-15°CWB	1.66	1.63	1.59	1.55	1.52
	-10°CWB	1.88	1.85	1.82	1.78	1.74
Hi	-5°CWB	2.04	2.01	1.97	1.94	1.91
12.2	0°CWB	2.13	2.10	2.07	2.04	2.01
(m <sup>3</sup> /min)	5°CWB	2.72	2.69	2.67	2.62	2.58
(111711111)	6°CWB	2.76	2.73	2.70	2.67	2.63
	10°CWB	2.94	2.91	2.89	2.85	2.82
	15°CWB	3.20	3.17	3.14	3.11	3.08
	20°CWB	3.43	3.41	3.39	3.35	3.32

Model	SRK25	5ZS2	ZSX-W, -WB, -WT Cooling mode (k)										(kW)		
							Indo	or air t	empera	ature					
Air flow	Outdoor air	21°(	CDB	23°0	DB	26°0	DB	27°0	DB	28°C	DB	31°C	CDB	33°C	DB
Air now	temperature	14°C	CWB	16°C	CWB	18°C	WB	19°C	WB	20°C	WB	22°C	CWB	24°C	CWB
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
	10	2.82	2.65	2.95	2.61	3.06	2.75	3.11	2.72	3.16	2.69	3.26	2.83	3.34	2.77
	12	2.77	2.62	2.90	2.58	3.01	2.73	3.07	2.71	3.12	2.68	3.22	2.82	3.31	2.76
	14	2.71	2.58	2.85	2.56	2.97	2.72	3.03	2.69	3.08	2.67	3.18	2.81	3.28	2.74
	16	2.66	2.53	2.80	2.54	2.92	2.70	2.98	2.68	3.04	2.65	3.15	2.80	3.24	2.73
	18	2.60	2.47	2.74	2.52	2.88	2.68	2.94	2.66	2.99	2.64	3.11	2.78	3.20	2.72
	20	2.55	2.42	2.68	2.49	2.83	2.66	2.89	2.64	2.95	2.62	3.07	2.76	3.17	2.71
	22	2.49	2.37	2.63	2.47	2.78	2.64	2.84	2.62	2.90	2.60	3.02	2.75	3.13	2.68
	24	2.43	2.31	2.57	2.44	2.72	2.59	2.80	2.61	2.85	2.58	2.98	2.74	3.08	2.66
	26	2.37	2.25	2.51	2.38	2.67	2.54	2.74	2.59	2.80	2.57	2.93	2.73	3.04	2.65
	28	2.31	2.19	2.44	2.32	2.61	2.48	2.69	2.56	2.75	2.55	2.89	2.69	3.00	2.64
ні	30	2.24	2.13	2.38	2.26	2.56	2.43	2.64	2.51	2.70	2.53	2.84	2.68	2.95	2.63
12.2	32	2.18	2.07	2.31	2.20	2.50	2.37	2.58	2.46	2.64	2.51	2.79	2.65	2.90	2.61
(m <sup>3</sup> /min)	34	2.11	2.00	2.25	2.13	2.44	2.32	2.53	2.40	2.59	2.46	2.74	2.60	2.85	2.60
()	35	2.08	1.97	2.21	2.10	2.41	2.29	2.50	2.38	2.56	2.43	2.71	2.58	2.83	2.59
	36	2.04	1.94	2.18	2.07	2.38	2.26	2.47	2.35	2.53	2.40	2.69	2.55	2.80	2.59
	38	1.97	1.87	2.11	2.00	2.32	2.20	2.41	2.29	2.47	2.35	2.63	2.50	2.75	2.57
	39	1.94	1.84	2.07	1.97	2.28	2.17	2.38	2.26	2.44	2.32	2.61	2.48	2.72	2.57
	40	1.90	1.81	2.03	1.93	2.25	2.14	2.35	2.23	2.41	2.29	2.58	2.45	2.70	2.56
	41	1.86	1.77	2.00	1.90	2.22	2.11	2.32	2.20	2.38	2.26	2.55	2.42	2.67	2.54
	42	1.83	1.74	1.96	1.86	2.19	2.08	2.29	2.18	2.35	2.23	2.52	2.40	2.64	2.51
	43	1.79	1.70	1.92	1.83	2.15	2.04	2.26	2.15	2.32	2.20	2.49	2.37	2.61	2.48
	44	1.75	1.67	1.88	1.79	2.12	2.01	2.23	2.12	2.28	2.17	2.46	2.34	2.58	2.46
	45	1.71	1.63	1.84	1.75	2.08	1.98	2.19	2.08	2.25	2.14	2.43	2.31	2.56	2.43
	46	1.68	1.59	1.81	1.72	2.05	1.95	2.16	2.05	2.22	2.11	2.40	2.28	2.53	2.40

	Heating mode (H	łC)				(kW)
Air flow	Outdoor air		Indoo	or air temper	rature	
	temperature	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB
	-20°CWB	1.70	1.66	1.60	1.57	1.52
	-15°CWB	1.97	1.93	1.88	1.84	1.80
	-10°CWB	2.23	2.19	2.16	2.10	2.06
Hi	-5°CWB	2.41	2.38	2.33	2.30	2.27
12.8	0°CWB	2.53	2.49	2.45	2.42	2.38
(m <sup>3</sup> /min)	5°CWB	3.22	3.19	3.17	3.10	3.06
(m /mn)	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 SRK35ZSX-W, -WB	, -WT
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Cooling mode

(kW)

					-		Indo	or air t	empera	iture					
Air flow	Outdoor	21°(	CDB	23°0	CDB	26°0	CDB	27°0	CDB	28°0	CDB	31°(	CDB	33°(	CDB
AIFIIOW	temperature	14°C	CWB	16°C	CWB	18°C	CWB	19°C	CWB	20°C	CWB	22°0	CWB	24°C	CWB
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
	10	3.94	3.48	4.13	3.42	4.28	3.60	4.35	3.56	4.43	3.52	4.56	3.66	4.68	3.57
	12	3.87	3.45	4.06	3.39	4.22	3.58	4.29	3.54	4.37	3.50	4.51	3.65	4.63	3.56
	14	3.80	3.41	3.99	3.36	4.16	3.55	4.24	3.51	4.31	3.48	4.46	3.63	4.59	3.54
	16	3.72	3.38	3.91	3.33	4.09	3.52	4.18	3.49	4.25	3.45	4.40	3.61	4.54	3.53
	18	3.65	3.34	3.84	3.30	4.03	3.49	4.11	3.46	4.19	3.43	4.35	3.59	4.49	3.51
	20	3.57	3.31	3.76	3.26	3.96	3.47	4.05	3.44	4.13	3.40	4.29	3.57	4.43	3.49
	22	3.49	3.27	3.68	3.23	3.89	3.44	3.98	3.41	4.06	3.38	4.23	3.55	4.38	3.48
	24	3.40	3.22	3.59	3.20	3.81	3.41	3.91	3.39	3.99	3.35	4.17	3.53	4.32	3.46
	26	3.32	3.15	3.51	3.16	3.74	3.38	3.84	3.36	3.92	3.33	4.11	3.51	4.26	3.44
	28	3.23	3.07	3.42	3.12	3.66	3.35	3.77	3.33	3.85	3.30	4.04	3.49	4.20	3.42
Ні	30	3.14	2.98	3.33	3.08	3.58	3.32	3.70	3.30	3.78	3.28	3.98	3.47	4.13	3.40
13.1	32	3.05	2.90	3.24	3.04	3.50	3.29	3.62	3.28	3.70	3.25	3.91	3.45	4.06	3.38
	34	2.95	2.81	3.14	2.99	3.41	3.24	3.54	3.25	3.62	3.22	3.84	3.42	4.00	3.36
(m <sup>3</sup> /min)	35	2.91	2.76	3.10	2.94	3.37	3.20	3.50	3.23	3.58	3.21	3.80	3.41	3.96	3.35
	36	2.86	2.72	3.05	2.90	3.33	3.16	3.46	3.22	3.54	3.19	3.76	3.40	3.92	3.34
	38	2.76	2.62	2.95	2.80	3.24	3.08	3.38	3.19	3.46	3.16	3.69	3.38	3.85	3.32
	39	2.71	2.57	2.90	2.75	3.20	3.04	3.33	3.17	3.42	3.15	3.65	3.36	3.81	3.31
	40	2.66	2.66	2.61	2.48	2.89	2.74	3.29	3.13	3.37	3.13	3.61	3.35	3.78	3.30
	41	2.61	2.61	2.56	2.43	2.85	2.70	3.25	3.09	3.33	3.12	3.57	3.34	3.74	3.29
	42	2.56	2.56	2.51	2.39	2.80	2.66	3.21	3.05	3.29	3.10	3.53	3.33	3.70	3.27
	43	2.51	2.51	2.47	2.34	2.76	2.62	3.16	3.00	3.24	3.08	3.49	3.31	3.66	3.26
	44	2.45	2.45	2.42	2.30	2.72	2.58	3.12	2.96	3.20	3.04	3.45	3.28	3.62	3.25
	45	2.40	2.40	2.37	2.25	2.67	2.54	3.07	2.92	3.15	2.99	3.41	3.24	3.58	3.24
	46	2.35	2.35	2.32	2.20	2.63	2.50	3.03	2.88	3.11	2.95	3.36	3.20	3.54	3.23

	Heating mode (H	HC)				(kW)
Air flow	Outdoor air		Indoo	or air tempe	rature	
	temperature	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB
	-20°CWB	2.29	2.23	2.16	2.11	2.05
	-15°CWB	2.65	2.59	2.53	2.48	2.42
	-10°CWB	2.99	2.94	2.90	2.83	2.77
Ні	-5°CWB	3.24	3.20	3.13	3.10	3.05
13.9	0°CWB	3.40	3.35	3.29	3.25	3.20
(m <sup>3</sup> /m in)	5°CWB	4.33	4.28	4.26	4.17	4.11
	6°CWB	4.40	4.35	4.30	4.25	4.19
	10°CWB	4.68	4.63	4.60	4.54	4.49
	15°CWB	5.09	5.04	5.01	4.95	4.91
1	20°CWB	5.47	5.42	5.40	5.34	5.29

Notes(1) These data show average statuses. Depending on the system control, there may be ranges where the operation is not conducted continuously. These data show the case where the operation frequency of a compressor is

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

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## Model SRK50ZSX-W, -WB, -WT

Cooling mode

(kW)

1	Heating mode (H	IC)				(kW
Air flow	Outdoor air		Indoo	or air temper	rature	
	temperature	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB
	-20°CWB	3.19	3.11	3.01	2.94	2.85
	-15°CWB	3.69	3.61	3.53	3.45	3.38
	-10°CWB	4.18	4.10	4.05	3.95	3.86
Hi	-5°CWB	4.52	4.46	4.37	4.32	4.25
17.3	0°CWB	4.74	4.67	4.59	4.54	4.47
(m <sup>3</sup> /min)	5°CWB	6.04	5.97	5.94	5.82	5.74
(117)	6°CWB	6.14	6.07	6.00	5.92	5.85
	10°CWB	6.52	6.46	6.42	6.34	6.27
	15°CWB	7.10	7.04	6.99	6.91	6.85
	20°CWB	7.63	7.57	7.53	7.45	7.39

		Indoor air temperature													
Air flow	Outdoor air	21°C	CDB	23°0	CDB	26°0	CDB	27°0	CDB	28°0	CDB	31°(	CDB	33°0	CDB
AITTIOW	temperature	14°C	CWB	16°C	CWB	18°C	CWB	19°C	CWB	20°C	WB	22°0	CWB	24°C	CWB
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
	10	5.63	4.44	5.90	4.37	6.11	4.53	6.22	4.47	6.32	4.41	6.51	4.55	6.69	4.42
	12	5.53	4.39	5.80	4.32	6.03	4.49	6.14	4.44	6.25	4.38	6.44	4.52	6.62	4.39
	14	5.43	4.34	5.70	4.27	5.94	4.45	6.05	4.40	6.16	4.35	6.37	4.50	6.55	4.37
	16	5.32	4.28	5.59	4.23	5.85	4.42	5.96	4.37	6.08	4.32	6.29	4.47	6.48	4.35
	18	5.21	4.23	5.48	4.17	5.75	4.38	5.88	4.33	5.99	4.28	6.21	4.44	6.41	4.32
	20	5.10	4.17	5.37	4.12	5.65	4.33	5.78	4.29	5.90	4.24	6.13	4.41	6.33	4.29
	22	4.98	4.12	5.25	4.07	5.55	4.29	5.69	4.25	5.80	4.20	6.05	4.38	6.25	4.27
	24	4.86	4.06	5.14	4.02	5.45	4.24	5.59	4.21	5.71	4.17	5.96	4.35	6.17	4.24
	26	4.74	4.00	5.01	3.96	5.34	4.20	5.49	4.17	5.61	4.13	5.87	4.31	6.08	4.21
	28	4.61	3.94	4.89	3.90	5.23	4.15	5.39	4.13	5.50	4.09	5.78	4.28	5.99	4.18
Ні	30	4.49	3.88	4.76	3.84	5.11	4.11	5.28	4.09	5.40	4.05	5.68	4.25	5.90	4.16
14.3	32	4.35	3.82	4.63	3.79	5.00	4.05	5.17	4.04	5.29	4.01	5.58	4.21	5.81	4.12
(m <sup>3</sup> /min)	34	4.22	3.75	4.49	3.73	4.88	4.00	5.06	3.99	5.18	3.94	5.48	4.17	5.71	4.08
(((())))	35	4.15	3.72	4.42	3.70	4.82	3.97	5.00	3.96	5.12	3.92	5.43	4.15	5.66	4.07
	36	4.08	3.68	4.35	3.67	4.76	3.94	4.94	3.94	5.06	3.90	5.37	4.13	5.61	4.05
	38	3.94	3.62	4.21	3.60	4.63	3.89	4.82	3.89	4.94	3.86	5.27	4.10	5.50	4.02
	39	3.87	3.59	4.14	3.57	4.57	3.86	4.76	3.87	4.88	3.83	5.21	4.08	5.45	4.00
	40	3.80	3.56	4.07	3.54	4.50	3.84	4.70	3.84	4.82	3.81	5.16	4.06	5.39	3.99
	41	3.73	3.52	3.99	3.51	4.44	3.81	4.64	3.82	4.76	3.79	5.10	4.04	5.34	3.97
	42	3.65	3.49	3.92	3.48	4.37	3.79	4.58	3.80	4.70	3.77	5.04	4.02	5.28	3.95
	43	3.58	3.46	3.84	3.44	4.30	3.76	4.52	3.77	4.63	3.74	4.98	4.00	5.23	3.93
	44	3.51	3.42	3.77	3.41	4.24	3.73	4.45	3.75	4.57	3.72	4.93	3.98	5.17	3.92
	45	3.43	3.39	3.69	3.38	4.17	3.71	4.39	3.72	4.50	3.70	4.87	3.96	5.11	3.90
	46	3.35	3.35	3.61	3.35	4.10	3.68	4.32	3.70	4.44	3.67	4.81	3.94	5.05	3.88

I	Heating mode (H	łC)				(kW)
Air flow	Outdoor air		Indoc	or air temper	rature	
	temperature	16°CDB	18°CDB	20°CDB	22°CDB	24°CDB
	-20°CWB	3.61	3.52	3.41	3.33	3.23
	-15°CWB	4.18	4.09	4.00	3.92	3.83
	-10°CWB	4.73	4.65	4.59	4.47	4.38
Hi	-5°CWB	5.13	5.05	4.95	4.90	4.82
17.8	0°CWB	5.38	5.30	5.20	5.14	5.07
(m <sup>3</sup> /min)	5°CWB	6.85	6.77	6.73	6.60	6.51
(1171111)	6°CWB	6.96	6.88	6.80	6.71	6.63
	10°CWB	7.39	7.32	7.28	7.18	7.11
	15°CWB	8.05	7.98	7.92	7.83	7.76
	20°CWB	8.65	8.58	8.54	8.44	8.37

Model SRK60ZSX-W, -WB, -WT

Cooling mode

(kW)

			Indoor air temperature												
Air flow	Outdoor air	21°C	CDB	23°0	DB	26°0	DB	27°C	DB	28°0	DB	31°(	CDB	33°C	CDB
AIT HOW	temperature	14°C	CWB	16°C	WB	18°C	WB	19°C	WB	20°C	WB	22°C	CWB	24°C	CWB
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
	10	6.87	5.31	7.19	5.22	7.46	5.39	7.58	5.32	7.72	5.25	7.94	5.40	8.16	5.22
	12	6.75	5.24	7.07	5.16	7.35	5.35	7.48	5.28	7.62	5.21	7.86	5.37	8.08	5.20
	14	6.62	5.17	6.95	5.09	7.24	5.30	7.38	5.24	7.52	5.17	7.77	5.33	8.00	5.17
	16	6.49	5.11	6.82	5.03	7.13	5.25	7.28	5.19	7.42	5.13	7.68	5.29	7.91	5.14
	18	6.36	5.04	6.69	4.97	7.02	5.20	7.17	5.15	7.31	5.09	7.58	5.26	7.82	5.11
	20	6.22	4.97	6.55	4.90	6.89	5.15	7.06	5.10	7.20	5.04	7.48	5.22	7.73	5.08
	22	6.08	4.90	6.41	4.84	6.77	5.09	6.94	5.04	7.08	4.99	7.38	5.18	7.63	5.05
	24	5.93	4.83	6.27	4.77	6.64	5.03	6.82	5.00	6.96	4.94	7.27	5.15	7.53	5.02
	26	5.78	4.76	6.12	4.71	6.51	4.98	6.70	4.95	6.84	4.89	7.16	5.11	7.42	4.97
	28	5.63	4.68	5.96	4.64	6.38	4.92	6.57	4.90	6.71	4.84	7.05	5.06	7.31	4.94
Hi	30	5.47	4.60	5.81	4.57	6.24	4.86	6.44	4.84	6.58	4.80	6.93	5.01	7.20	4.90
16.3	32	5.31	4.52	5.65	4.49	6.10	4.80	6.31	4.79	6.45	4.74	6.81	4.97	7.08	4.86
(m <sup>3</sup> /min)	34	5.15	4.45	5.48	4.41	5.95	4.74	6.17	4.73	6.31	4.68	6.68	4.93	6.96	4.82
(117/1100)	35	5.07	4.41	5.40	4.38	5.88	4.71	6.10	4.70	6.24	4.66	6.62	4.91	6.90	4.80
	36	4.98	4.37	5.31	4.34	5.80	4.68	6.03	4.67	6.17	4.63	6.56	4.88	6.84	4.78
	38	4.81	4.29	5.14	4.27	5.65	4.61	5.89	4.61	6.03	4.58	6.42	4.84	6.71	4.74
	39	4.72	4.25	5.05	4.23	5.57	4.58	5.81	4.59	5.95	4.55	6.36	4.81	6.65	4.69
	40	4.64	4.20	4.96	4.19	5.49	4.55	5.74	4.56	5.88	4.52	6.29	4.79	6.58	4.67
	41	4.55	4.16	4.87	4.15	5.41	4.52	5.66	4.53	5.80	4.49	6.22	4.74	6.51	4.65
	42	4.46	4.12	4.78	4.11	5.33	4.48	5.59	4.50	5.73	4.46	6.15	4.72	6.45	4.63
1	43	4.37	4.08	4.69	4.06	5.25	4.45	5.51	4.47	5.65	4.43	6.08	4.69	6.38	4.61
	44	4.28	4.04	4.60	4.03	5.17	4.41	5.43	4.44	5.57	4.41	6.01	4.67	6.31	4.59
	45	4.13	3.94	4.44	3.93	5.02	4.32	5.28	4.34	5.42	4.31	5.86	4.58	6.15	4.50
	46	3.85	3.72	4.15	3.71	4.71	4.09	4.96	4.11	5.09	4.08	5.52	4.35	5.80	4.27

Notes(1) These data show average statuses. Depending on the system control, there may be ranges where the operation is not conducted continuously.

is not conducted continuously. These data show the case where the operation frequency of a compressor is fixed. (2) Capacities are based on the following conditions. Corresponding refrigerant piping length :5m Level difference of Zero. (3) Symbols are as follows. TC : Total cooling capacity (kW) SHC : Sensible heat capacity (kW) HC : Heating capacity (kW)

# 8. APPLICATION DATA

(1) Installation of indoor unit

RLF012A202B

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

• This installation manual deals with an indoor unit installation only. For an outdoor unit installation, refer to page 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 ton work in order to protect yourself.
 Be sure to confirm no operation problem on the equipment after completing the installation. If unusual noise can be heard during the test run, consult the dealer.
 The precautionary items mentioned below are distinguished into two levels, <u>(AWARNING)</u> and <u>(A CAUTION</u>.
 Be sure to explain the operating methods as well as the maintenance methods of this equipment to the

Warning indicates a potentially hazardous situation which, if not avoided, can result in serious continue of the user's manual.
 Be sure to keep the installation manual together with user's manual at a place where it is easily accessible to the user any time. Moreover, ask the user to hand the manuals to a new user, whenever required.
 Jury or property damage.

- 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 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 accoropen, air can be sucked into the refrigerant circuit which can cause anomalous high pressure result dance with the installation manual. Installation by non qualified person or incorrect installation can cause serious troubles such as water leak, electric shock, fire and personal injury. Be sure to wear protective goggles and gloves while performing installation work. 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 Improper safety measures are solution personal injury. Use the original accessories and the specified components for the installation. Using parts other than those prescribed may cause water leak, electric shock, fire and personal injury. Do not install the unit near the location where leakage of flammable gases can occur. If leaked gases accumulate around the unit, it can cause fire resulting in property damage and per-dentification. Electrical work must be carried unites, possibus gass will be produced. Electrical work must be carried out by the qualified electrician, strictly in ac-cordance with national or regional electricity regulations. Incorrect installation can cause electric shock, fire or personal injury. Make sure that earth leakage breaker and circuit breaker of appropriate ca-abilitioner installed. Practities are installed. Circuit breaker should be able to disconnect all poles under over current. Absence of appropriate breakers can cause electric shock, personal injury or property damage. Be sure to switch off the power source in the event of installation, mainte-When installing the unit in small rooms, make sure that refrigerant density does not exceed the limit (Reference: ISOS149) in the event of leakage. If refrigerant density exceeds the limit, consult the dealer and install the ventilation system. Otherwise lack of oxygen can occur resulting in serious accident. Install the unit in a location where unit will remain stable, horizontal and free forewards the series and the s The power source is not switch of the power source in the event of instantation, mainte-nance or service. If the power source is not switched off, there is a risk of electric shock, unit failure or personal injury. Be sure to tighten the cables securely in terminal block and relieve the ca-bles properly to prevent overloading the terminal blocks. Loose connections or cable mountings can cause anomalous heat production or fire. Do not process, splice or modify the power cable, or share the socket with other power pluge. Install the unit in a location where unit will remain stable, norizontal and free of any vibration transmission. Unsuitable installation location can cause the unit to fall resulting in material damage and personal injury. **Do not run the unit with removed panels or protections.** Touching rotating equipments, hot surfaces or high voltage parts can cause personal injury due to entrapment, burn or electric shock. other power plugs. Improper power cable or power plug can cause fire or electric shock due to poor connection, insuf-ficient insulation or over-current. This unit is designed specifically for R32 or R410A. Using any other refrigerant can cause unit failure and personal injury. Do not vent R32 or R410A into atmosphere. R32 is a fluorinated greenhouse gas with a Global Warming Potential(GWP)=675. R410A is a fluorinated greenhouse gas with a Global Warming Potential(GWP)=2088. Make sure that no air enters the refrigerant circuit when the unit is installed and removed. 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. and removed. If air enters the refrigerant circuit will become too high, which can cause burst and personal injury. Improper installation can cause electric shock or fire due to intrusion or dust or water. Be sure to use the prescribed power and connecting cables for electrical work. Using improper cables can cause electric leak or fire. This appliance must be connected to main power source by means of a cir-cuit 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 Be sure to use the prescribed pipes, flare nuts and tools for R32 or R410A. Using existing parts (for R22 or R407C) can cause refrigerant circuit burst resulting in unit failure and personal injury. Be sure to connect both liquid and gas connecting pipes properly before op-Be sure to connect both input and gas connecting pipes property extent of erating the compressor. Do not open the liquid and gas service valves before completing piping work, and evacuation. If the compressor is operated when connecting pipes are not connected and service valves are open, air can be sucked into the refrigerant circuit which can cause anomalous high pressure resulting in that the compression is operated when connecting pipes are not connected and service valves are open, air can be sucked into the refrigerant circuit which can cause anomalous high pressure resulting in 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. Burst or personal injury. Be sure to tighten the flare nuts to specified torque using the torque wrench. Tightening flare nuts with excess torque can cause burst and refrigerant leakage after a long period. Take care when carrying the unit by hand. If the unit weight is more than 20kg, it must be carried by two or more persons. Do not carry the unit by the plastic straps. Always use the carry handle. Do not install the outdoor unit in a location where insects and small animals Do not install the unit in the locations where: There are heat sources nearby. Unit is directly exposed to rain or sunlight. There is any obstacle which can prevent smooth air circulation from inlet and outlet side of the unit. Unit is directly exposed to oil mist and steam such as kitchen. Chemical substances like ammonia (organic fertilizer), calcium chloride (snow melting agent) and can inhabit. Insects and small animals can enter the electrical parts and cause damage resulting in fire or per-sonal injury. Instruct the user to keep the surroundings clean. acid (suffurous 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. 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. It can cause performance degradation, corrosion and damage of component Do not install the unit near the location where neighbours are bothered th 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. Do not put anything on the outdoor unit. Do not put anything on the outdoor unit. Dispose of all packing materials properly. Packing materials contain nails and wood which can cause personal injury. Keep the polybag away from children to avoid the risk of suffocation. Do not put anything on the outdoor unit. Object marging more the outdoor unit. It can cause performance degradation, corrosion and damage of components, unit malfunction and fire. • Do not put anything on the outdoor unit. Object may fall causing property damage or personal injury. gases (like supplied gas, concrete gas), concrete g Do not fouch any refrigerant pipe with your hands when the system is in operation. During operation the refrigerant pipes with your hands when the system is in operation. During condition. Touching pipes can cause personal injury like burn (hot/cold). Install isolator or disconnect switch on the power source wiring in accor-dance with the local codes and regulations. The isolator should be locked in OFF state in accordance with EN60204-1. Equipment such as inverters, standby generators, medical high frequency equipments and telecom-munication equipments can affect the system, and cause malfunctions and breakdowns. The system can also affect medical equipment and telecommunication equipment, and obstruct its

function or cause jamming

1. ACCESSORIES AND TOOLS

				-							
ſ	Standard a	accessorie	s (Su	ppli	ied with indoor unit)			F	Locally procured parts		installation work
			<u>`</u>	÷	· · · · ·			(	a) Sleeve (1pc)	Plus headed driver	Pipe cutter
	(1) Installation board	al I iveri d'al Sul com alla	1pc	(5)	(for remote control holder ø3.5 X 16mm)	Sector .	2pcs	(	b) Sealing plate (1pc)	Knife	Hole core drill (65mm in diameter)
				-	(			(	<li>c) Inclination plate (1pc)</li>	Saw	Wrench key (Hexagon) [4mm]
	(2) Wireless remote control		1pc	(6)	Batteries [R03 (AAA, Micro) 1.5V]	of the	2pcs	(	d) Putty	Tape measure	Flaring tool set*
				-		~		(	e) Connecting cable	Torque wrench	Gas leak detector*
	(3) Remote control holder	A.A	100	( <sub>7</sub> )	Air-cleaning filters		2pcs	(	f) Drain hose (extension hose)		Pipe bender
	(3) Remote control holder	Q	ipc	(')	All-cleaning inters		zpus	6	g) Piping cover (for insulation of connection piping)	Plier	Flare adjustment gauge
	T !			-					<sup>9</sup> (for insulation of connection piping)	* Desia	ned specifically for R32 or R410A
	(4) Tapping screws (for installation board ø4 X 25mm)	0a	5pcs	(8)	Insulation (#486 50 X 100 t3)		1pc	(	h) Clamp and screw (for finishing work)	3	. ,
									i) Electrical tane		

num 1g range

## 2. SELECTING INSTALLATION LOCATION



#### 1. Indoor unit

- Where there is no obstruction to the airflow and where the cooled and heated air can be evenly distributed.

- evenly distributed. A solid place where the unit or the wall will not vibrate. A place where there will be enough space for servicing. (Where space mentioned on the right side can be secured.) Where it is easy to conduct wiring and piping work. A place where int is not directly exposed to sunlight or street light. A place where int is not directly exposed to sunlight or street light. A place separated at least 1m away from the television or the radio. (To prevent interference to images and sounds.)

- (10 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 180 cm.

## 2. Wireless remote control

(Om

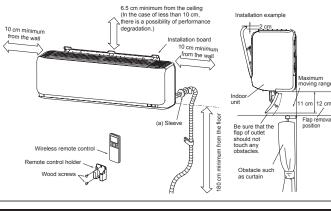
0 ÷

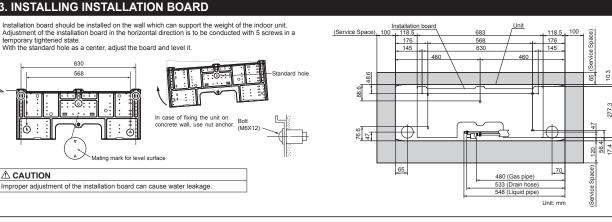
A place where the air-conditioner can receive the signal surely during operating the wireless remote control.
A place where it is not affected by the TV, radio etc.
Do not place where it is exposed to direct sunlight or near heat devices such as a stove.

## 3. INSTALLING INSTALLATION BOARD

temporary tightened state. • With the standard hole as a center, adjust the board and level it.

630 568





## 4. DRILLING HOLE AND FIXTURE OF SLEEVE

4E

Improper adjustment of the installation board can cause water leakage

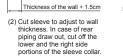
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Mating mark for level surface

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

:

#### \ 5° ø65 Outdoor side nor side (1) Drill a hole with hole core drill.

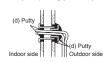


(j)))))

Cut

(a) Sleeve (C) Inclination practice (C) Turn to tighten (b) Sealing plate Indoor side Outdoor side Installed state (3) Fix sealing plate, sleeve and inclination plate.

(c) Inclination plate



(4) After piping work, seal the hole in the wall with putty.

# 

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

## **≜** CAUTION

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

Terminal block

## **5. ELECTRICAL WIRING WORK**

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

Eart

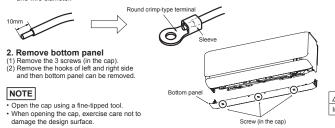
- (1) Selecting cable
   Select the connecting cable in accordance with the specifications mentioned below.
   4-core\* 1.5mm<sup>2</sup> conformed with 60245 IEC57
   \* 1 Earth wire is included (Yellow/Green).

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





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





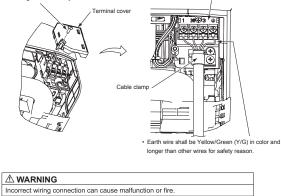
(1) Remove the terminal cover.

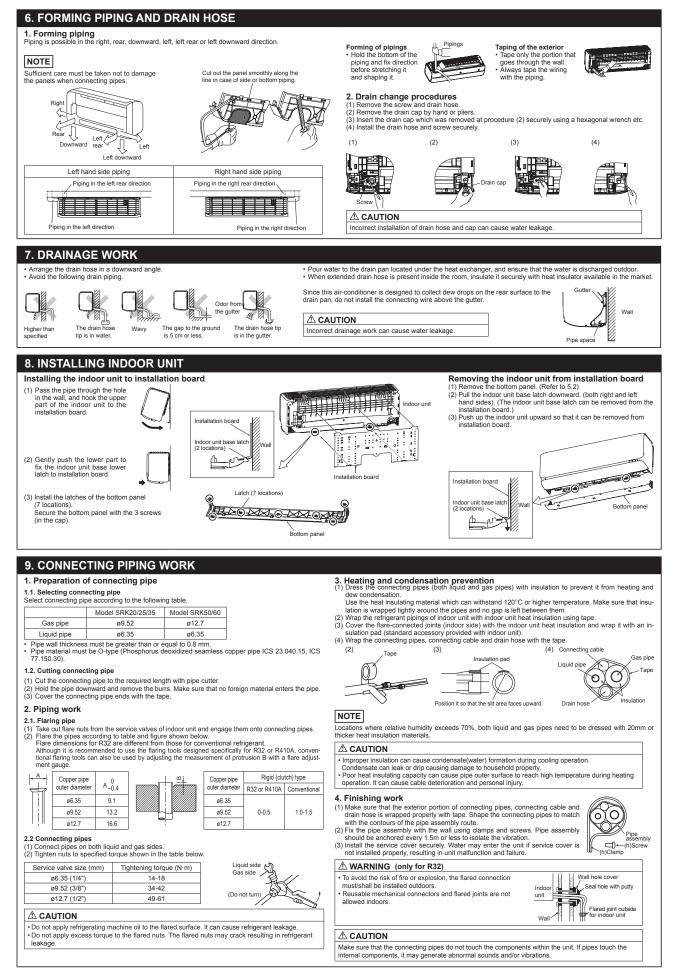
- (2) Remove the cable clamp.
   (3) Connect the connecting wires to the terminal block.
   (4) Fix the connecting cable by cable clamp.
   (5) Fix the terminal cover.

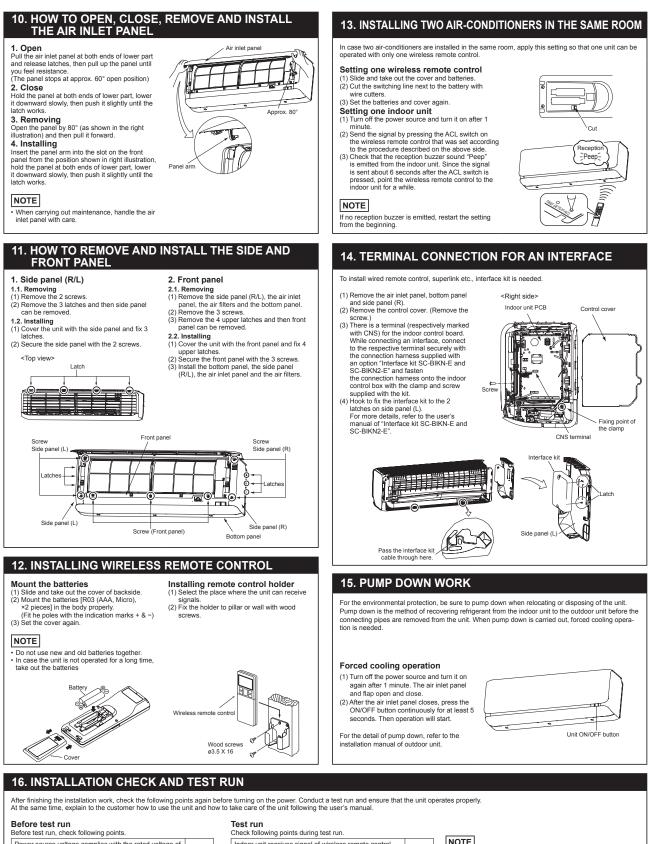
#### NOTE

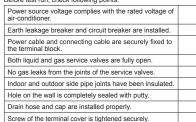
Take care not to confuse the terminal numbers for indoor and outdoor connections.

#### The screw of the termina cover is tightened securely.









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

#### After test run

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

## NOTE

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

## (2) Installation of outoor unit

## RWC012A063B

Model SRC20,25,35,40,50,60ZSX-W SRC20.25.35ZSX-WA

R32 REFRIGERANT USED

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

#### SAFETY PRECAUTIONS

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

- **/ WARNING** During pump down work, be sure to stop the compressor before closing ser-vice valves and removing connecting pipes. If the connecting pipes are removed when the compressor is in operation and service valves are open, air can be sucked into the refrigerant circuit which can cause anomalous high pressure result-ing in burst or personal injury. In the event of refrigerant leakage during installation, be sure to ventilate the working area property. Be sure to use only for residential purpose.
   If this unit is installed in inferior environment such as machine shop, vehicle (like ship), warehouse. etc., it can malfunction. etc., it can malfunction.
  Installation must be carried out by the qualified installer completely in accordance with the installation manual. Installation by non qualified person or incorrect installation can cause serious troubles such as water leak, electric shock, fire and personal injury.
  Be sure to wear protective goggles and gloves while performing installation work. Improper safety measures can result in personal injury.
  Use the original accessories and the specified components for the installation. Using parts other than those prescribed may cause water leak, electric shock, fire and personal injury.
  Do not install the unit near the location where leakage of flammable gases can occur. If leaked gases accumulate around the unit, it can cause fire resulting in property damage and personal injury. working area properly. If the refrigerant comes into contact with naked flames, poisonous gases will be produced Electrical work must be carried out by the qualified electrician, strictly in ac-cordance with national or regional electricity regulations. Incorrect installation can cause electric shock, fire or personal injury. Make sure that earth leakage breaker and circuit breaker of appropriate ca-Directile are installed. Circuit breaker should be able to disconnect all poles under over current. Absence of appropriate car sonal injury sonal injuy. When installing the unit in small rooms, make sure that refrigerant density does not exceed the limit (Reference: ISO5149) in the event of leakage. If refrigerant density exceeds the limit, consult the dealer and install the ventilation system. Otherwise lack of oxygen can occur resulting in serious accident. Install the unit in a location where unit will remain stable, horizontal and free breakers can cause electric shock, personal injury or property damage. Be sure to switch off the power source in the event of installation, mainte-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 caof 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. bles properly to prevent overloading the terminal blocks. Loose connections or cable mountings can cause anomalous heat production or fire. Do not process, splice or modify the power cable, or share the socket with other power plugs. Improper power cable or power plug can cause fire or electric shock due to poor connection, insuf-ficient insulation or over-current. Do not perform any change in protective device or its setup condition yourself. entrapment, ourn or electric snock.
   This unit is designed specifically for R32.
   Using any other refrigerant can cause unit failure and personal injury.
   Do not vent R32 into atmosphere.
   R32 is a fluorinated greenhouse gas with a Global Warming Potential(GWP)=675.
   Make sure that no air enters the refrigerant circuit when the unit is installed
   and compared. Do not perform any change in protective device or its setup condition yourself. Changing protective device specifications can cause electric shock, fire or burst.
   Be sure to clamp the cables properly so that they do not touch any internal component of the unit.
   If cables touch any internal component, it can cause overheating and fire.
   Be sure to install service cover properly.
   Improper installation can cause electric shock or fire due to intrusion of dust or water.
   Be sure to use the prescribed power and connecting cables for electrical work.
   Using improper cables can cause electric leak or fire.
   This appliance must be connected to main power source by means of a circuit breaker or switch with a contact separation of at least 3mm.
   Improper electrical work can cause unit failure or personal injury.
   When plugging this unit, a plug conforming to the standard IEC60884-1 must be used. and removed. If air enters the refrigerant circuit, the pressure in the refrigerant circuit will become too high, which • an cause burst and personal injury. Be sure to use the prescribed pipes, flare nuts and tools for R32 or R410A. Using existing parts (for R22 or R407C) can cause refrigerant circuit burst resulting in unit failure and personal injury. Be sure to connect both liquid and gas connecting pipes properly before op-Be sure to connect both liquid and gas connecting pipes properly before op-erating the compressor. Do not open the liquid and gas operation valves before completing piping • work, and evacuation. If the compressor is operated when connecting pipes are not connected and operation valves are open, air can be sucked into the refrigerant circuit which can cause anomalous high pressure result • ing in burst on personal injury. Be sure to tighten the flare nuts to specified torque using the torque wrench. Tothabaing flare nuts with averast formula can cause hurst and refrigerant leakage after a long paried used Using improper plug can cause electric shock or fire. Be sure to connect the power source cable with power source properly. Improper connection can cause intrusion of dust or water resulting in electric shock or fire. Tightening flare nuts with excess torgue can cause burst and refrigerant leakage after a long period • Take care when carrying the unit by hand. If the unit weight is more than 20kg, it must be carried by two or more persons. Do not carry the unit by the plastic straps. Always use the carry handle. Do not install the unit in the locations where: There are heat sources nearby. Unit is directly exposed to rain or sunlight. There is any obstacle which can prevent smooth air circulation from inlet and outlet side of the unit. Do not install the outdoor unit in a location where insects and small animals There is any obstacle which can prevent smooth air circulation from inlet and outlet side of the unit.
   Unit is directly exposed to oil mist and steam such as kitchen.
   Chemical substances like ammonia (organic fertilizer), calcium chloride (snow melting agent) and acid (sulfurous acid etc.), which can harm the unit, will generate or accumulate.
   Drain water can not be discharged properly.
   TV set or radio receiver is placed within 1m.
   Height above sea level is more than 1000m.
   It can cause performance degradation, corrosion and damage of components, unit malfunction and fire.
   Dispose of all packing materials properly.
   Packing materials contain nails and wood which can cause personal injury.
   Keep the polybag away from children to avoid the risk of suffication.
   Do not au anything on the outdoor unit can inhabit. Insects and small animals can enter the electrical parts and cause damage resulting in fire or personal injury. Instruct the user to keep the surroundings clean. If the outdoor unit is installed at height, make sure that there is enough space for installation, maintenance and service. Insufficient space can result in personal injury due to falling from the height. Do not install the unit near the location where neighbours are bothered by The second state of the se Do not put anything on the outdoor unit. Object may fall causing property damage or personal injury. Do not touch the aluminum fin of the outdoor unit. Aluminium fin temperature is high during heating operation. Touching fin can cause burn. Do not install the unit close to the equipments that generate electromagnetic waves and/or high-harmonic waves. Equipment such as inverters, standby generators, medical high frequency equipments and telecom-Autimidant intemperature is high during heating operation, roddning in card cause durin. Do not touch any refrigerant pipe with your hands when the system is in operation. During operation the refrigerant pipes become extremely hot or extremely cold depending on the op-erating condition. Touching pipes can cause personal injury like burn (hot/cold). Install isolator or disconnect switch on the power source wiring in accor-dance with the local codes and regulations. The isolator should be locked in OFF state in accordance with EN60204-1. munication equipments can affect the system, and cause malfunctions and breakdowns. The system can also affect medical equipment and telecommunication equipment, and obstruct its function or cause jamming.

## **1. ACCESSORIES AND TOOLS**

Standard accessories (Supplied with outdoor unit)	Q'ty	Locally procured parts	Tools for installation work			
(1) Drain grommet 🕥	4	(a) Anchor bolt(M10-M12)×4 pcs	Plus headed driver	Spanner wrench	Vacuum pump*	
		(b) Putty	Knife	Torque wrench [14.0-62.0N•m(1.4-6.2kgf•m)]	Gauge manifold *	
(2) Drain elbow 😥 📷	1	(c) Electrical tape	Saw	Wrench key (Hexagon) [4mm]	Charge hose *	
*Not included for SRC20, 25, or 35ZSX	-WA. (d) Connecting pipe		Tana maaayyaa	Flaring tool set *	Vacuum pump adapter*	
		(e) Connecting cable	Tape measure	Flaring tool set	(Anti-reverse flow type)	
		(f) Power cable	Pipe cutter	Flare adjustment gauge	Gas leak detector *	
		(g) Clamp and screw (for finishing work)			*Designed specifically for R32 or R410A	

(mm)

280 180

75 Open Open

Open 250 Open

## 2. OUTDOOR UNIT INSTALLATION

#### Note as a unit designed for R32

- Note as a unit designed Tor NS2
  Do not use any refrigerant other than R32. R32 will rise to pressure about 1.6 times higher than that of a conventional refrigerant. A cylinder containing R32 has a light blue indication mark on the top.
  Do not use a charge cylinder. The use of a charge cylinder will cause the refrigerant composition to change, which results in performance degradation.
  In charging refrigerant, always take it out from a cylinder in the liquid phase.
- All indoor units must be models designed exclusively for R32. Check connectable indoor unit models in a catalog, etc. (A wrong indoor unit, if connected into the system, will impair proper system operation)

#### 1. Haulage

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

A person carrying the right hand side must take care of this fact. A person carrying the left hand side must hold the handle pro-vided on the front panel of the unit with his right hand and the corner column section of the unit with his left hand.

#### **≜** CAUTION

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

#### 2. Selecting the installation location

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

#### NOTE

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

#### (1) Location of strong wind

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

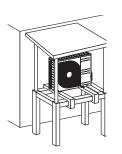
Over 500mn

Wind direction Wind

the outlet gets perpendicular to the wind direc-tion.

#### (2) Location of snow accumulation

- · Install the unit on the base so that the bottom is higher than snow cover surface.
- · Install the unit under eaves or provide the roof on site



#### 3. Installation space

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

Size

Example installation

L1

L2

L3

L4

Ι Π III IV

Open 280 100

100 80 80 80

250

	ZZ
L2 Inlet J L3	Service
Outlet I	T. 1

#### NOTE

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

#### 

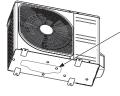
When more than one unit are installed in parallel directions, provide sufficient inlet space so that short-circuiting may not occur.

#### 4. Drain piping work (If necessary)

Carry out drain piping work by using a drain elbow and a drain grommet supplied separately as acces-sories if condensed water needs to be drained out.

Install drain elbow and drain grommet.
 Seal around the drain elbow and drain grommet with putty or adequate caulking material.

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

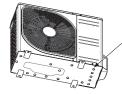


Do not put a grommet on this hole. This is a supplementary drain hole to discharge drain water, when a large amount of it is gathered.

#### 

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

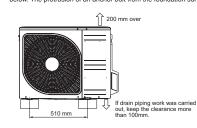
<SRC20/25/35ZSX-WA

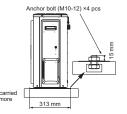


Do not block the drain holes when installing the outdoor unit.

#### 5. Installation

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





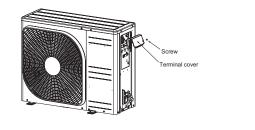
#### **▲** CAUTION

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

## 3. PREPARATION FOR WORK

1. Removing service cover v. Slide service cover downwards and remove it.





## **4. CONNECTING PIPING WORK**

## 1. Restrictions on unit installation

	ig restrictions on unit in can cause compresso	s on unit installation. compressor failure or perfor	nance	e degradation.
	Dimensiona	Dimensional restrictions	1 [	
	Model SRC20/25/3	SRC20/25/35 Model SRC40/50/60	1	
Connecting pipe lengt	h(L) 25m or less	im or less 30m or less	н	
Elevation difference bet indoor and outdoor unit	15m or less	im or less 20m or less		
indoor and outdoor unit	15m or less			than the indoor unit installation positio

#### 2. Preparation of connecting pipe 2.

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

Liquid pipe	ø6.35	ø6.35
<ul> <li>Pipe wall thickness</li> </ul>	must be greater than	or equal to 0.8 mr

τype want initiaties initiation of equal to 0.8 mm.
 Pipe material must be O-type (Phosphorus deoxidized seamless copper pipe ICS 23.040.15, ICS 77.150.30).

## NOTE

Se

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

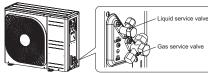
## 2.2. Cutting connecting pipe

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

#### 3. Piping work

Check that both liquid and gas service valves are fully closed.

Carry out the piping work with service valves fully closed.



#### 3.1. Flaring pipe

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

A	Connor nino		IΩI	Copper pipe	Rigid (	clutch) type	
	Copper pipe outer diameter	A_0.4		outer diameter	R32 or R410A	Conventional	
	ø6.35	9.1		ø6.35			
	ø9.52	13.2		ø9.52	0-0.5	1.0-1.5	
1.1.1	ø12.7	16.6	:	ø12.7			

#### 3.2. Connecting pipes

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

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



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

## 5. UTILIZATION OF EXISTING PIPE

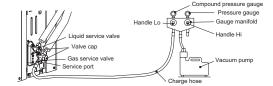
Are the outdoor and indoor units connected to the exist	ting pipe system ?	
YES		
Is it possible to run the unit ?		
YES		
Does the existing unit use any of the following refriger Suniso, MS,Barell Freeze, HAB, Freol, ether oil, ester		NO
YES		
Do the existing pipe specifications (pipe length, pipe size and elevation of the unit.? (Go to 4.CONNECTING PIPING WORK and check 1		
YES		Description
Is the existing pipe system free of corrosion, flaws and dents	Repair the damaged parts.	Repair is impossible.
YES	Repair	Air tightness is
Is the existing pipe system free of gas leaks? (Check whether refrigerant charge was required frequently for the system before.)	NO Check the pipe system for air tightness	- impossible
YES	Air tightness is C	K.
Are heat insulation materials of the existing pipe syste free of peel-off or deterioration? (Heat insulation is necessary for both gas and liquid pipes	NO Repair the damaged parts.	Repair is impossible.
YES	Repair	
Is the existing piping system free of any loose pipe support	? NO Repair the loose pipe support.	7
YES	Repair	
The existing pipe system is reusable.	The existing pipe system is not reusable.	٦.

#### 4. Evacuation

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

- or outdoor unit. (2) Run the vacuum pump for at least one hour after the vacuum gauge shows -0.1MPa (-76cm Hg). (3) Confirm that the vacuum gauge indicator does not rise even if the system is left for 15 minutes or more. Vacuum gauge indicator will rise if the system has moisture left hiside or has a leakage point. Check the system for the leakage point. If leakage point is found, repair it and return to (1) again. (4) Close the Handle Lo and stop the vacuum pump. (4) Close the Handle Lo and stop the vacuum pump.
- wing back (5) Remove valve caps from liquid service valve and gas operation valve.
   (6) Turn the liquid service valve's rod 90 degree counterclockwise with a hexagonal wrench key to open valve
- valve.
  Close it after 5 seconds, and check for gas leakage.
  Using soapy water, check for gas leakage from indoor unit's flare and outdoor unit's flare and valve rods.
  Wipe off all the water after completing the check.
  (7) Disconnect charging hose from gas service valve's service port and fully open liquid and gas service valves.
  (8) Tighten service valve caps and service port cap to the specified torque shown in the table below.

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



#### 

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

#### 5. Additional refrigerant charge

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

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

## NOTE

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

adding on angoa amount ao ono minin ano tablo bolom.
<ul> <li>The maximum refrigerant charge amount is designed as shown in the table below.</li> </ul>

	-	
	Model SRC 20/25/35	Model SRC40/50/60
The factory refrigerant charge amount(kg)	1.20	1.30
The maximum refrigerant charge amount/kg)	1.40	1 50

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

#### **▲** CAUTION

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

### NOTE

Do not hold the valve cap area with a spanne

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

- Consult with our distributor in the area, if you need to recover refrigerant and charge it again.
   (2) Clean the existing pipe system according to the procedure given below.
   (a) Carry out forced cooling operation of existing unit for 30 minutes. For Forced cooling operation' refer to the indoor unit installation manual.
   (b) Stop the indoor fan and carry out forced cooling operation for 3 minutes (Liquid return).
   (c) Close the liquid service valve of the outdoor unit and carry out pump down operation (Refer to 6. DI UND POWN) PUMP DOWN).

(d) Blow with nitrogen gas. If discolored refrigeration oil or any foreign matter is discharged by the blow, wash the pipe system or install a new pipe system.
 (3) Remove the flare nuts from the existing pipe system. Go back to 4.CONNECTING PIPING WORK and proceed to step 2.2 Cutting connecting pipe.

#### 

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

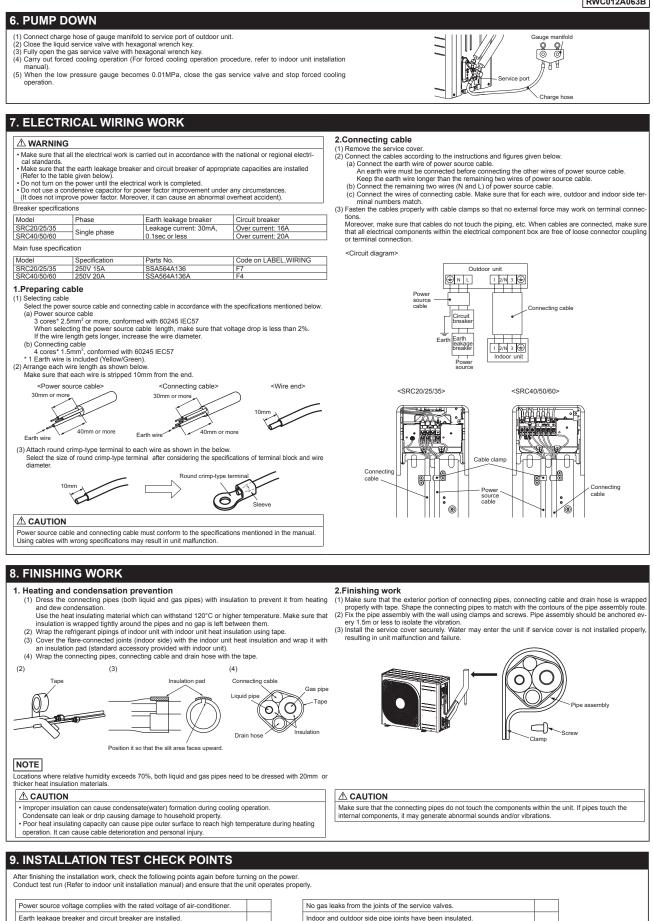
If the existing piping is specified as liquid pipe ø9.52 or gas pipe ø12.7, refer to the following. (SRC40,50 and 60 only)

<Table of pipe size restrictions?

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

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

## RWC012A063B



- 59 -

Drain hose (if installed) is fixed properly

Screw of the service cover is tightened properly.

Power cable and connecting cable are securely fixed to the terminal block.

Both liquid and gas service valves are fully open

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

				V		E AIR-CONDITIONER	RSA012A061
ĺ		This equipment uses flammable refrise leaked, together with an external is possibility of ignition.		Ĩ	There is info	ormation included in the user manual.	s manual and/or
The user's manual should be read carefully.			his equipment with				
•	<ul> <li>The precautionary items mentioned below are distinguished into two levels, A WARNING and A CAUTION.</li> <li>WARNING: Wrong installation would cause serious consequences such as injuries or death.</li> <li>CAUTION: Wrong installation might cause serious consequences depending on circumstances.</li> </ul>						
<ul> <li>Strict compliance of the domestic laws must be observed when disposing the appliance.</li> <li>Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.</li> <li>The appliance shall be stored in a room without continuously operating ignition sources (for example: operating gas appliance or an operating electric heater.</li> <li>Do not pierce or burn.</li> <li>Be aware that refrigerants may not contain an odour.</li> <li>The indoor unit shall be stored in a room that minimum area of 8.6 m<sup>2</sup>.</li> </ul>			-				
(				UTION			
<ol> <li>General</li> <li>That the installation of pipe-work shall be kept to a minimum.</li> <li>That pipe-work shall be protected from physical damage.</li> <li>That compliance with national gas regulations shall be observed.</li> </ol>		stallation of pipe-work shall be kept to a work shall be protected from physical ance with national gas regulations shall	<ul> <li>4.5 Presence of fire extingu</li> <li>If any hot work is to be corefrigeration equipment or appropriate fire extinguist available to hand. Have a extinguisher adjacent to th</li> <li>4.6 No ignition sources</li> <li>No person carrying out wo</li> </ul>	onducted on th r any associat ning equipmer dry powder o he charging a	ted parts, ht shall be or CO <sub>2</sub> fire rea.	<ul> <li>4.9 Checks to electrical device</li> <li>Repair and maintenance to shall include initial safety ch inspection procedures.</li> <li>If a fault exists that could co no electrical supply shall be until it is satisfactorily dealty</li> <li>If the fault cannot be correct</li> </ul>	electrical components ecks and component mpromise safety, then connected to the circuit with.

- 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.

- 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

- 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.

## 6. Repair to intrinsically safe components

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

#### 7. Cabling

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

#### 8. Detection of flammable refrigerants

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

#### 9. Leak detection methods

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

#### 10. Removal and evacuation

- When breaking into the refrigerant circuit to make repairs - or for any other purpose - conventional procedures shall be used. However, for flammable refrigerants it is important that best practice is
- followed since flammability is a consideration. The following procedure shall be adhered to:
- remove refrigerant;
- purge the circuit with inert gas;
- evacuate;
- purge again with inert gas;
- open the circuit by cutting or brazing.
   The refrigerant charge shall be recovered into the
- correct recovery cylinders. For appliances containing flammable refrigerants, the system shall be "flushed" with OFN to render the unit safe.
- This process may need to be repeated several times.
- Compressed air or oxygen shall not be used for purging refrigerant systems

## **∧** CAUTION

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

#### 11. Charging procedures

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

#### 12. Decommissioning

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

## (13. Labelling)

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

## (14. Recovery

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

#### (15. Other safety precautions

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

## • Transport of equipment containing flammable refrigerants

Transportation regulations of each country must be complied.

## Marking of equipment using signs

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

## Competence of service personnel

Service personnel who handle this air-conditioner are required to complete a special training course, in addition to ordinary repairing procedures. The training must include following items.

- 1. Information about the explosion potential of flammable refrigerants to show that flammables may be dangerous when handled without care.
- 2. Information about potential ignition sources, especially those that are not obvious, such as lighters, light switches, vacuum cleaners, electric heaters.
- 3. Information concerning the concept of safety
- Although safety of this equipment does not rely on the ventilation of enclosure, in the event that the enclosure is opened up to atmosphere while remaining refrigerant is accumulated in it, flammable atmosphere could be released to the outside.
- 4.Information about the concept of sealed components and sealed enclosures according to IEC 60079-15:2010.
- 5. Information about the correct working procedures:

## 1 Commissioning

- Ensure that the floor area is sufficient for the refrigerant charge or that the ventilation duct is assembled in a correct manner.
- · Connect the pipes and carry out a leak test before charging with refrigerant.
- Check safety equipment before putting into service.

#### ②Maintenance

- · Portable equipment shall be repaired outside or in a workshop specially equipped for servicing units with flammable refrigerants.
- Ensure suficiente ventilation at the repair place.
- · Be aware that malfunction of the equipment may be caused by refrigerant loss and a refrigerant leak is possible.
- Discharge capacitors in a way that won't cause any spark. The standard procedure to short circuit the capacitor terminals usually creates sparks.
- · Reassemble sealed enclosures accurately. If seals are worn, replace them.
- · Check safety equipment before putting into service.

## ③Repair

- · Portable equipment shall be repaired outside or in a workshop specially equipped for servicing units with flammable refrigerants.
- · Ensure suficiente ventilation at the repair place.
- · Be aware that malfunction of the equipment may be caused by refrigerant loss and a refrigerant leak is possible.
- Discharge capacitors in a way that won't cause any spark.
- In the event that a brazing work is required, the refrigerant must be collected in a proper collecting container.
- Purge the braze point with nitrogen during the brazing procedure.
- · Carry out a leak test before charging with refrigerant.
- · Reassemble sealed enclosures accurately. If seals are worn, replace them.

## ④Decommissioning

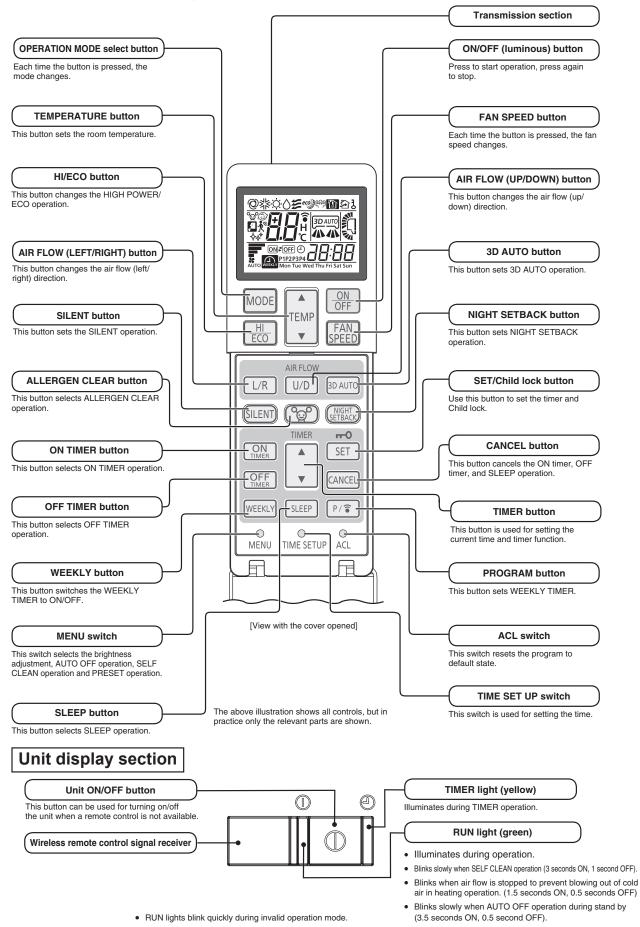
- If the safety is affected when the equipment is putted out of service, the refrigerant charge shall be removed before decommissioning.
- Ensure suficiente ventilation at the equipment location.
- Be aware that malfunction of the equipment may be caused by refrigerant loss and a refrigerant leak is possible.
- Discharge capacitors in a way that won't cause any spark.
- Collect refrigerant always in a proper collecting container.
- After collecting refrigerant, charge nitrogen gas till the inside of refrigerating cycle is filled up to the atmospheric pressure.
- Put a label on the equipment that the refrigerant is removed.

## 5 Disposal

- Ensure suficiente ventilation at the working place.
- · Collect refrigerant always in a proper collecting container.
- · Waste material must be collected and disposed according to the national or local guidelines.

## 9. OUTLINE OF OPERATION CONTROL BY MICROCOMPUTER

(1) Operation control function by wireless remote control



## (2) Unit ON/OFF button

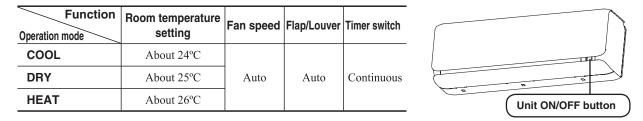
When the wireless remote control batteries become weak, or if the wireless remote control is lost or malfunctioning, this button may be used to turn the unit on and off.

## (a) Operation

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

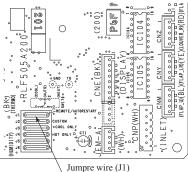
## (b) Details of operation

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



## (3) Auto restart function

- (a) Auto restart function records the operational status of the air-conditioner immediately prior to be switched off by a power cut, and then automatically resumes operations after the power has been restored.
- (b) The following settings will be cancelled:
  - (i) Timer settings
  - (ii) HIGH POWER operation
- Notes (1) Auto restart function is set at on when the air-conditioner is shipped from the factory. Consult with your dealer if this function needs to be switched off.
  - (2) When power failure ocurrs, the timer setting is cancelled. Once power is resumed, reset the timer.
  - (3) If the jumper wire (J1) "AUTO RESTART" is cut, auto restart is disabled. (See the diagram at right)



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

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

## (a) Setting the wireless remote control

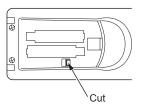
- (i) Pull out the cover and take out batteries.
- (ii) Cut the switching line next to the battery with wire cutters.
- (iii) Insert batteries. Close the cover.

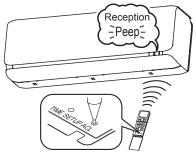
## (b) Setting an indoor unit

- (i) Turn off the power source, and turn it on after 1 minute.
- (ii) Point the wireless remote control (that was set according to the procedure described on the left side) at the indoor unit and send a signal by pressing the ACL switch on the wireless remote control.Since the signal is sent in about 6 seconds after the ACL switch is pressed,

point the wireless remote control at the indoor unit for some time.

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





## (5) Selection of the annual cooling function

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

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

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

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

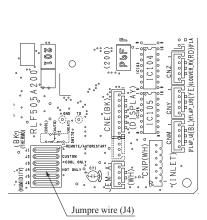
## (b) Content of control

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

## (6) Heating only function

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

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



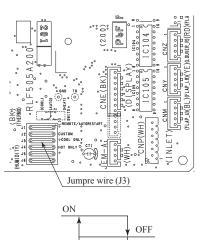
## (7) High power operation

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

- (a) During the HIGH POWER operation, the room temperature is not controlled. When it causes an excessive cooling and heating, press the HI/ECO button again to cancel the HIGH POWER operation.
- (b) HIGH POWER operation is not available during the DRY and the ON timer to OFF timer operations.
- (c) When HIGH POWER operation is set after ON timer operation, HIGH POWER operation will start from the set time.
- (d) When the following operation are set, HIGH POWER operation will be cancelled.

 $(\ensuremath{\underline{\rm D}}$  When the HI/ECO button is pressed again.

- ② When the operation mode is changed.
- ③ When it has been 15 minutes since HIGH POWER operation has started.
- ④ When the 3D AUTO botton is pressed.
- <sup>(5)</sup> When the SILENT botton is pressed.
- (6) When the NIGHT SETBACK botton is pressed.
- (e) Not operable while the air-conditioner is OFF.
- (f) After HIGH POWER operation, the sound of refrigerant flowing may be heard.

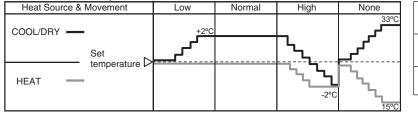


Outdoor air temperature (°C)

## (8) Economy operation

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

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



MODE:COOL/HEAT/DRY mode operation

Heat Source & Movement	Low	Normal	High	None
COOL/DRY				
HEAT — temperature D				

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

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

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

① When the air-conditioner is stopped by ON/OFF button during economy operation.

(2) When the air-conditioner is stopped in SLEEP or OFF TIMER operation during economy operation.

3 When the operation is retrieved from SELF CLEAN or ALLERGEN CLEAR operation.

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

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

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

③ When the NIGHT SETBACK button is pressed.

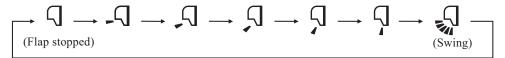
(3) Not operable while the air-conditioner is OFF.

## (9) Air flow direction adjustment

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

## (a) Flap

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



• Angle of flap from horizontal

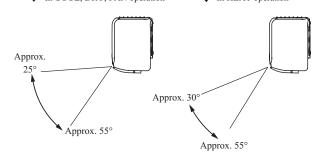
Wireless remote control display	<b>_</b> -	<u>_</u> ر	ŗ	٦ ۲	٦ ۲
COOL, DRY, FAN	Approx. 15°	Approx. 20°	Approx. 25°	Approx. 30°	Approx. 55°
HEAT	Approx. 30°	Approx. 40°	Approx. 45°	Approx. 50°	Approx. 55°

## (b) Louver

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

## (c) Swing

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





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

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

## (10) 3D auto operation

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Flap	Horizontal blowing (Fixed)		
Louver	Wide (Fixed)		

## (11) Timer operation

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

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

## (b) Sleep timer operation

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

## (c) OFF timer operation

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

## (d) Weekly timer operation

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

## (12) Silent operation

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

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

## (13) Night setback operation

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

## (14) Air flow range setting

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

## (a) Setting

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

The air flow range setting cannot be made while the unit is running.

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

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

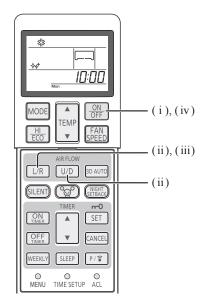
The air flow range setting display illuminates.

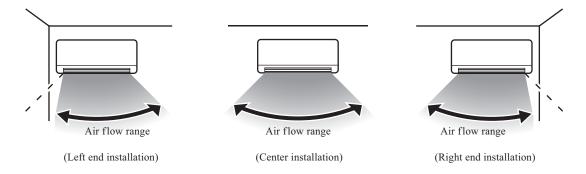
(iii) Setting the air flow range.

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

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







(iv) Press the ON/OFF button.

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

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

## (15) Display brightness adjustment

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

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

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

### (16) AUTO OFF operation

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

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

## (17) Outline of heating operation

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

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

\*It can be set the indoor fan motor off or the heating thermostat OFF with connecting a wired remote control. In the case, indoor air temperature is detected by sensor on the wired remote control.

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

## (i) Fuzzy operation

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

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

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

## (ii) Hot keep operation

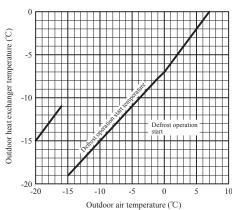
During the heating operation, the indoor fan speed can be controlled based on the temperature of the indoor heat exchanger (Th2) to prevent blowing out of cold air.

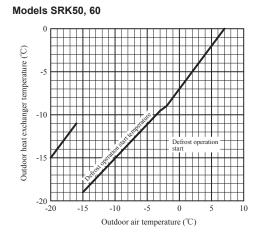
Unit : °C

### (c) Defrost operation

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

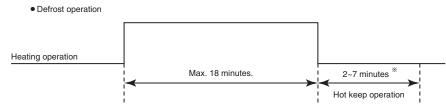
#### Models SRK20, 25, 35





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

- Connect compressor speed 0 rps 10 times or more.
- Satisfy 1), 2) and 3) conditions above.
- Outdoor air temperature is 3°C or less.
- (ii) Ending conditions (Operation returns to the heating cycle when either one of the following is satisfied.)
  - Outdoor heat exchanger sensor (models SRK20, 25, 35 : TH2 ; models SRK50, 60 : TH1) temperature: 13°C (models SRK50, 60 : 10°C) or higher
  - 2) Continued operation time of defrost operation  $\rightarrow$  For more than 18 minutes.



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

### (d) Countermeasure for excessive temperature rise

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

(i) Setting

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

(ii) Contents of control

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

### (iii) Reset condition

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

### (18) Outline of cooling operation

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

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

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

#### (i) Fuzzy operation

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

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

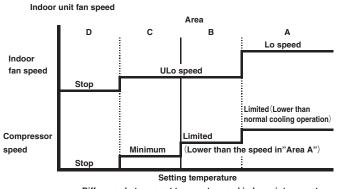
#### (19) Outline of dehumidifying (DRY) operation

#### (a) Purpose of DRY mode

The purpose is "Dehumidification", and not to control the humidity to the target condition. Indoor/outdoor unit control the operation condition to reduce the humidity, and also prevent over cooling.

#### (b) Outline of control

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



Difference between set temperature and indoor air temperature.

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

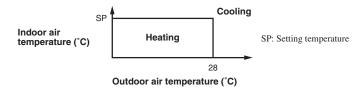
### (c) Other

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

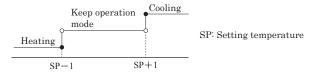
#### (20) Outline of automatic operation

(a) Determination of operation mode

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



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



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

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

- (c) When the unit is started again within one hour after the stop of automatic operation or when the automatic operation is selected during heating, cooling or dehumidifying operation, the unit is operated in the previous operation mode.
- (d) Setting temperature can be adjusted within the following range. There is the relationship as shown below between the signals of the wireless remote control and the setting temperature.

			Signals of wireless remote control (Display)											
		18	19	20	21	22	23	24	25	26	27	28	29	30
Setting	Cooling	18	19	20	21	22	23	24	25	26	27	28	29	30
temperature	Heating	18	19	20	21	22	23	24	25	26	27	28	29	30

### (21) Protective control function

### (a) Dew prevention control [Cooling]

Prevents dewing on the indoor unit.

#### (i) Operating conditions

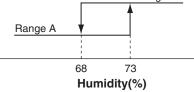
When the following conditions have been satisfied for more than 30 minutes after starting operation

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

#### (ii) Contents of operation

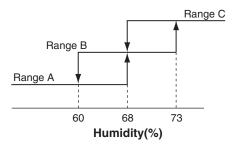
1) Air capacity control

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



Item	Model	SRK50	SRK60
ULO	Upper limit of compressor's speed	Range A:50rps, Range B:50rps, Range C:24rps	Range A:50rps, Range B:50rps, Range C:24rps
010	Indoor fan	Range A:Adaptable to compressor speed Range B, Range C:4th speed	Range A:Adaptable to compressor speed Range B, Range C:4th speed
LO	Upper limit of compressor's speed	Range A:50rps, Range B:50rps, Range C:24rps	Range A:50rps, Range B:50rps, Range C:24rps
	Indoor fan Adaptable to compressor speed		Adaptable to compressor speed
MED	Upper limit of compressor's speed	Range A:50rps, Range B:50rps, Range C:30rps	Range A:50rps, Range B:50rps, Range C:30rps
	Indoor fan	Adaptable to compressor speed	Adaptable to compressor speed
н	Upper limit of Range A:70rps, Range B:50rps,		Range A:80rps, Range B:50rps, Range C:30rps
	Indoor fan	Adaptable to compressor speed	Adaptable to compressor speed
AUTO	Upper limit of compressor's speed	Range A:50rps, Range B:50rps, Range C:30rps	Range A:50rps, Range B:50rps, Range C:30rps
A010	Indoor fan	Adaptable to compressor speed	Adaptable to compressor speed

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



- When this control has continued for more than 30 minutes continuously, the following wind direction control is performed (except for range A of SRK50, 60).
  - a) When the vertical wind direction is set at other than the vertical swing, the flaps change to the horizontal position.
  - b) When the horizontal wind direction is set at other than the horizontal swing, the louver changes to the vertical position.

2.5°C or lower

0 rps

Keep the fan speed before

frost prevention control

#### (iii) Reset condition

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

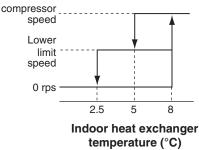
### (b) Frost prevention control (During cooling or dehumidifying)

### (i) Operating conditions

Item

Indoor fan

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



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

Lower limit of compressor command speed

Indoor heat exchanger temperature

Outdoor fan	Depends on compressor speed		Indoor heat e
4-way valve	OFF	Depends on stop mode	temperatu

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.

5°C or lower

22 rps

Depends on operation mode

(2) When the temperature is lower than  $2.5^{\circ}$ C, the compressor is stopped.

### (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.

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

### (c) Cooling overload protective control

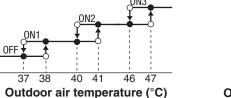
### (i) Operating conditions

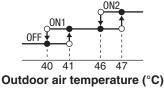
When the outdoor air temperature (models SRK20, 25, 35 : TH3 ; models SRK50, 60 : TH2) has become continuously for 30 seconds at 38°C or more, or 41°C or more, or 47°C or more with the compressor running, the lower limit speed of compressor is brought up.

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



SRK50, 60





#### (ii) Detail of operation

- 1) The outdoor fan is stepped up by 3 speed step. [Upper limit 8 th speed.]
- The lower limit of compressor speed is set to 25 or 30 or 40rps. However, when the thermo OFF, the speed is reduced to 0 rps.

#### (iii) Reset conditions

When either of the following condition is satisfied.

- 1) The outdoor air temperature is lower than 37°C (models SRK50, 60 : 40°C).
- 2) The compressor speed is 0 rps.

### (d) Cooling high pressure control

#### (i) Purpose

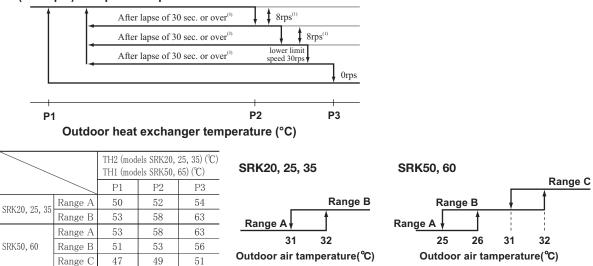
Prevents anomalous high pressure operation during cooling.

### (ii) Detector

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

(iii) Detail of operation

#### (Example) Compressor speed



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

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

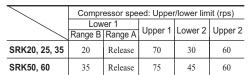
### (e) Cooling low outdoor air temperature protective control

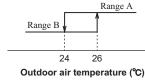
#### **Operating conditions** (i)

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

#### (ii) Detail of operation

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





С

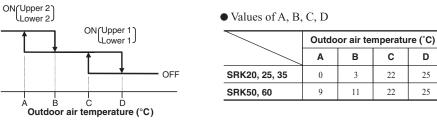
22

22

D

25

25



#### (iii) **Reset conditions**

When either of the following condition is satisfied.

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

#### (f) Heating high pressure control

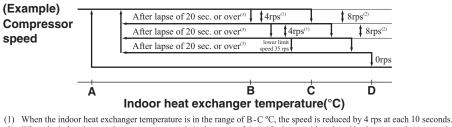
#### (i) Purpose

Prevents anomalous high pressure operation during heating.

#### (ii) Detector

Indoor heat exchanger sensor (Th2)

#### **Detail of operation** (iii)



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

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

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

#### **Temperature list**

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

#### SRK50, 60

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

### (g) Heating overload protective control

### (i) Indoor fan speed

### 1) Operating conditions

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

### 2) Detail of operation

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

### 3) Reset conditions

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

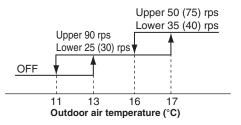
### (ii) Outdoor unit side

#### 1) Operating conditions

When the outdoor air temperature (models SRK20, 25, 35 : TH3 ; models SRK50, 60 : TH2) is 13°C or higher continues for 30 seconds while the compressor speed other than 0 rps.

#### 2) Detail of operation

- a) Taking the upper limit of compressor speed at 90 rps or 50 (75) rps, if the output speed obtained with the fuzzy calculation exceeds the upper limit, the upper limit value is maintained.
- b) The lower limit of compressor speed is set to 25 (30) rps or 35 (40) rps and even if the calculated result becomes lower than that after fuzzy calculation, the speed is kept to 25 (30) rps or 35 (40) rps. However, when the thermostat OFF, the speed is reduced to 0 rps.
- c) Inching prevention control is activated and inching prevention control is carried out with the minimum speed set at 40 rps.
- d) The outdoor fan speed is set on 3rd (models SRK50, 60 : 2nd) speed.



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

#### 3) Reset conditions

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

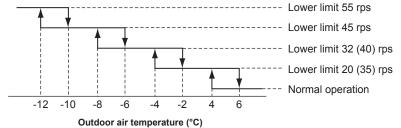
#### (h) Heating low outdoor temperature protective control

#### (i) Operating conditions

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

### (ii) Detail of operation

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



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

### (iii) Reset conditions

When either of the following condition is satisfied.

- 1) The outdooe air temperature (models SRK20, 25, 35 : TH3 ; models SRK50, 60 : TH2) becomes  $6^{\circ}$ C.
- 2) The compressor speed is 0 rps.

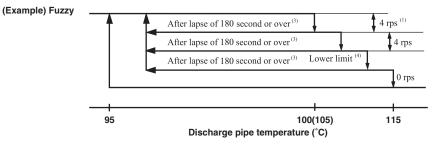
### (i) Compressor overheat protection

### (i) Purpose

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

### (ii) Detail of operation

1) Speeds are controlled with temperature detected by the sensor (models SRK20, 25, 35 : TH4 ; models SRK50, 60 : TH3) mounted on the discharge pipe.



Notes (1) When the discharge pipe temperature is in the range of 100 (105) - 115°C, the speed is reduced by 4 rps.

(2) When the discharge pipe temperature is raised and continues operation for 20 seconds without changing, then the speed is reduced again by 4 rps.
(3) If the discharge pipe temperature is in the range of 95-100 (105) °C even when the compressor speed is maintained for 180 seconds when the temperature is in the range of 95-100 (105) °C, the speed is raised by 1 rps and kept at that speed for 180 seconds. This process is repeated until the command speed is reached.

#### (4) Lower limit speed

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

- (5) Values in ( ) are for the models SRK50, 60.
- 2) If the temperature of 115°C is detected by the sensor on the discharge pipe, then the compressor will stop immediately. When the discharge pipe temperature drops and 3 minutes has elapsed the unit starts again within 1 hour but there is no start at the third time.

### (j) Current safe

### (i) Purpose

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

### (ii) Detail of operation

Input current to the converter is monitored with the current sensor fixed on the printed circuit board of the outdoor unit and, if the operation current value reaches the limiting current value, the compressor speed is reduced.

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

Operation starts again after 3 minutes.

### (k) Current cut

### (i) Purpose

Inverter is protected from overcurrent.

(ii) Detail of operation

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

### (I) Outdoor unit failure

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

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

- (i) When the input current is measured at 1 A or less for 3 continuous minutes or more.
- (ii) If the outdoor unit sends a 0 rps signal to the indoor unit 3 times or more within 20 minutes of the power being turned on.

### (m) Indoor fan motor protection

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

### (n) Serial signal transmission error protection

### (i) Purpose

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

### (ii) Detail of operation

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

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

### (o) Rotor lock

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

### (p) Outdoor fan motor protection

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

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

### (i) Cooling

### 1) Operating conditions

When the outdoor air temperature (models SRK20, 25, 35 : TH3 ; models SRK50, 60 : TH2) is 22°C or lower continues for 30 seconds while the compressor speed is other than 0 rps.

### 2) Detail of operation

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

• Value of A

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

- a) Outdoor heat exchanger temperature (models SRK20, 25, 35 : TH2 ; models SRK50, 60 : TH1) ≤ 21°C
   After the outdoor fan speed drops (down) to 1 speed for 60 seconds; if the outdoor heat exchanger temperature is lower than 21°C, gradually reduce the outdoor fan speed by 1 speed. (Lower limit 1st speed)
- b) 21°C < Outdoor heat exchanger temperature (models SRK20, 25, 35 : TH2 ; models SRK50, 60 : TH1) ≤ 38°C After the outdoor fan speed maintains at A speed for 20 seconds; if the outdoor heat exchanger temperature is 21°C - 38°C, maintain outdoor fan speed.
- c) Outdoor heat exchanger tempeature (models SRK20, 25, 35 : TH2; models SRK50, 60 : TH1) > 38°C
   After the outdoor fan speed rises (up) to 1 speed for 60 seconds; if the outdoor heat exchanger temperature is higher than 38°C, gradually increase outdoor fan speed by 1 speed. (Upper limit 3rd speed)

### 3) Reset conditions

When either of the following conditions is satisfied.

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

### (ii) Heating

### 1) Operating conditions

When the outdoor air temperature (models SRK20, 25, 35 : TH3 ; models SRK50, 60 : TH2) is -2°C (models SRK50, 60 : 4°C) or lower continues for 30 seconds while the compressor speed is other than 0 rps.

### 2) Detail of operation

The outdoor fan is stepped up by 2 speed step at each 20 seconds. (Upper limit 8th speed)

### 3) Reset conditions

When either of the following conditions is satisfied.

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

### (r) Refrigeration cycle system protection

### (i) Starting conditions

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

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

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

### (ii) Contents of control

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

### (iii) Reset condition

When the compressor has been turned OFF.

# **10. MAINTENANCE DATA**

### (1) Cautions

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

### (2) Items to check before troubleshooting

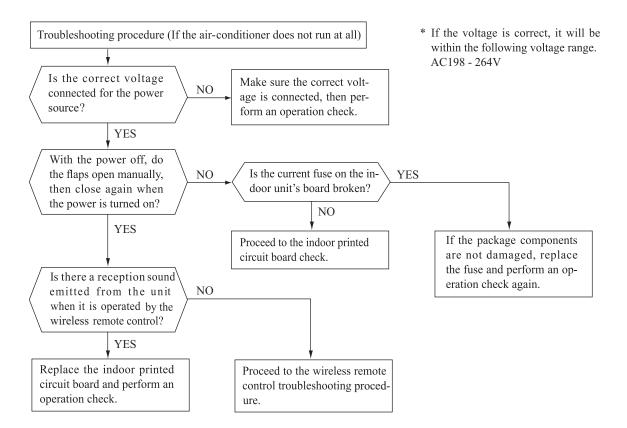
- (a) Have you thoroughly investigated the details of the trouble which the customer is complaining about?
- (b) Is the air-conditioner running? Is it displaying any self-diagnosis information?
- (c) Is a power source with the correct voltage connected?
- (d) Are the control lines connecting the indoor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

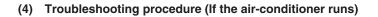
### (3) Troubleshooting procedure (If the air-conditioner does not run at all)

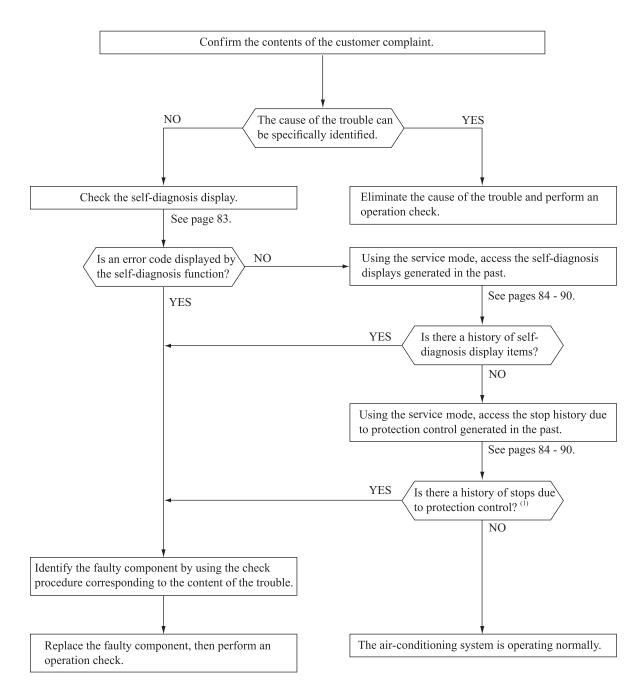
If the air-conditioner does not run at all, diagnose the trouble using the following troubleshooting procedure. If the air-conditioner is running but breaks down, proceed to troubleshooting step (4).

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

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







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

### (5) Self-diagnosis table

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

Indoor unit o	display panel	Wired (2)	Description				
		control	of trouble	Cause	Display (flashing) condition		
light 1-time flash	light ON		Heat exchanger sensor 1 error	<ul> <li>Broken heat exchanger sensor l wire, poor connector connection</li> <li>Indoor PCB is faulty</li> </ul>	When a heat exchanger sensor 1 wire disconnection is detected while operation is stopped. (If a temperature of $-28^{\circ}$ 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	<ul> <li>Broken heat exchanger sensor 2 wire, poor connector connection</li> <li>Indoor PCB is faulty</li> </ul>	When a heat exchanger sensor 2 wire disconnection is detected while operation is stopped. (If a temperature of $-28^{\circ}$ C or lower is detected for 15 seconds, it is judged that the wire is disconnected.) (Not displayed during operation.)		
6-time flash	ON	E 16	Indoor fan motor error	• Defective fan motor, poor connector connection	When conditions for turning the indoor unit's fan motor on exist during air- conditioner operation, an indoor unit fan motor speed of 300 min <sup>-1</sup> or lower is measured for 30 seconds or longer. (The air-conditioner stops.)		
Keeps flashing	1-time flash	E 38	Outdoor air temperature sensor error	<ul> <li>Broken outdoor air temp. sensor wire, poor connector connection</li> <li>Outdoor PCB is faulty</li> </ul>	-55°C or lower is detected for 5 seconds continuously 3 times within 40 minutes after initial detection of this anomalous temperature. Or -55°C or 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	<ul> <li>Broken heat exchanger sensor wire, poor connector connection</li> <li>Outdoor PCB is faulty</li> </ul>	-55°C or lower is detected for 5 seconds continuously 3 times within 40 minutes after initial detection of this anomalous temperature. Or -55°C or 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	<ul> <li>Broken discharge pipe sensor wire, poor connector connection</li> <li>Outdoor PCB is faulty</li> </ul>	-25°C or lower is detected for 5 seconds continuously 3 times within 40 minutes after initial detection of this anomalous temperature. (The compressor is stopped.)		
ON	1-time flash	E 42	Current cut	<ul> <li>Compressor locking, open phase on compressor output, short circuit on power transistor, service valve is closed</li> </ul>	The compressor output current exceeds the set value during compressor start. (The air-conditioner stops.)		
ON	2-time flash	E 59	Trouble of outdoor unit	Broken compressor wire     Compressor blockage	When there is an emergency stop caused by trouble in the outdoor unit, or the input current value is found to be lower than the set value. (The air-conditioner stops.)		
ON	3-time flash	E 58	Current safe stop	<ul> <li>Overload operation</li> <li>Overcharge</li> <li>Compressor locking</li> </ul>	When the compressor speed is lower than the set value and the current safe has operated. (The compressor stops)		
ON	4-time flash	E 51	Power transistor error	Broken power transistor	When the power transistor is judged breakdown while compressor starts. (The compressor is stopped.)		
ON	5-time flash	E 36	Over heat of compressor	• Gas shortage, defective discharge pipe sensor, service valve is closed	When the value of the discharge pipe sensor exceeds the set value. (The air-conditioner stops.)		
ON	6-time flash	E 5	Error of signal transmission	• Defective power source, Broken signal wire, defective indoor/outdoor PCB	When there is no signal between the indoor PCB and outdoor PCB for 10 seconds or longer (when the power is turned on), or when there is no signal for 7 minute 35 seconds or longer (during operation) (The compressor is stopped).		
ON	7-time flash	E 48	Outdoor fan motor error	• Defective fan motor, poor connector connection	When the outdoor unit's fan motor speed continues for 30 seconds or longer at 75 min <sup>-1</sup> or lower. (3 times) (The air-conditioner stops.)		
ON	Keeps flashing	E 35	Cooling high pressure protecton	<ul> <li>Overload operation, overcharge</li> <li>Broken outdoor heat exchange sensor wire</li> <li>Service valve is closed</li> </ul>	When the value of the outdoor heat exchanger sensor exceeds the set value.		
2-time flash	2-time flash	E 60	Rotor lock	<ul> <li>Defective compressor</li> <li>Open phase on compressor</li> <li>Defective outdoor PCB</li> </ul>	If the compressor motor's magnetic pole positions cannot be correctly detected when the compressor starts. (The air-conditioner stops.)		
5-time flash	ON	E 47	Active filter voltage error	• Defective active filter	When the wrong voltage connected for the power source. When the outdoor PCB is faulty.		
7-time flash	ON	E 57	Refrigeration cycle system protective control	<ul><li>Service valve is closed.</li><li>Refrigerant is insufficient</li></ul>	When refrigeration cycle system protective control operates.		
_		E 1	Error of wired remote control wiring	Broken wired remote control wire, defective indoor PCB	The wired remote control wire Y is open. The wired remote control wires X and Y are reversely connected. Noise is penetrating the wired remote control lines. The wired remote control or indoor PCB is faulty. (The communications circuit is faulty.)		
Stays OFF	Keeps flashing	_	Limit switch error	<ul> <li>Defective limit switch</li> <li>Defective suction panel set</li> <li>Defective indoor contro PCB</li> </ul>	Actuation of limit switch		

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

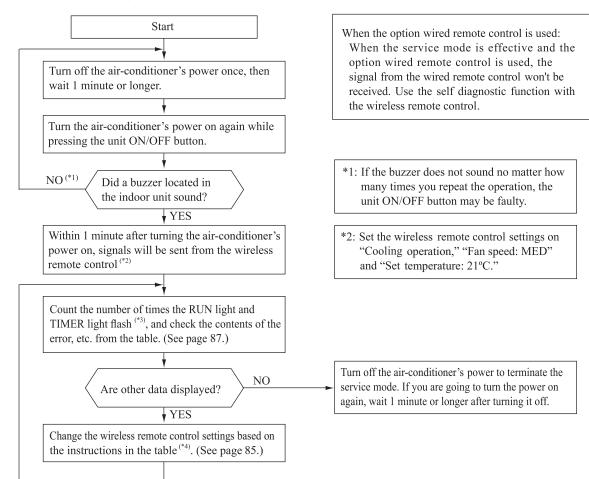
### (6) Service mode (Trouble mode access function)

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

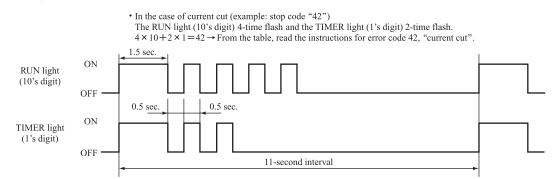
### (a) Explanation of terms

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

### (b) Service mode display procedure



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



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

### (i) Self-diagnosis data

What are self-diagnosis data?

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

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

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

Wireless remote control setting	Indicates the number of 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	
Cooling	MED	21°C	Displays the reason for the stop (error code) the previous time an error was displayed.	
		22°C	Displays the reason for the stop (error code) 2 times previous when an error was displayed.	
		23°C	Displays the reason for the stop (error code) 3 times previous when an error was displayed.	
			24°C	Displays the reason for the stop (error code) 4 times previous when an error was displayed.
		25°C	Displays the reason for the stop (error code) 5 times previous when an error was displayed.	

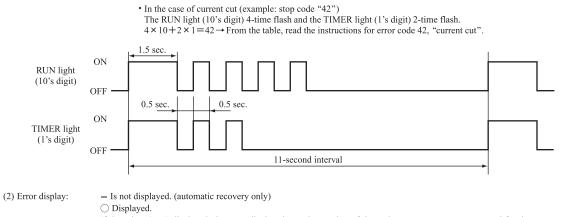
## (ii) Stop data

Wireless remote control setting		ol setting		
Operation mode	Fan speed mode	Temperature setting	Displayed data	
		21°C	Displays the reason for the stop (stop code) the previous time when the air-conditioner was stopped by protective stop control.	
		22°C	Displays the reason for the stop (stop code) 2 times previous when the air-conditioner was stopped by protective stop control.	
	LO	23°C	Displays the reason for the stop (stop code) 3 times previous when the air-conditioner was stopped by protective stop control.	
		24°C	Displays the reason for the stop (stop code) 4 times previous when the air-conditioner was stopped by protective stop control.	
Cooling		25°C	Displays the reason for the stop (stop code) 5 times previous when the air-conditioner was stopped by protective stop control.	
Cooling		26°C	Displays the reason for the stop (stop code) 6 times previous when the air-conditioner was stopped by protective stop control.	
		27°C	Displays the reason for the stop (stop code) 7 times previous when the air-conditioner was stopped by protective stop control.	
		28°C	Displays the reason for the stop (stop code) 8 times previous when the air-conditioner was stopped by protective stop control.	
		29°C	Displays the reason for the stop (stop code) 9 times previous when the air-conditioner was stopped by protective stop control.	
		30°C	Displays the reason for the stop (stop code) 10 times previous when the air-conditioner was stopped by protective stop control.	

	e mode	Stop coad or	Error content	Cause	Occurrence conditions	Error	Auto
light	light (1's digit)	Error coad	Error content	Cause		display	recov
OFF	OFF 1-time flash	0	Normal 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.	-	- C
	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)	С
	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)	C
3-time flash	7-time flash	37	Outdoor heat exchanger sensor is abnormal	Outdoor heat exchanger sensor wire is disconnected. Connector connections are poor. Outdoor PCB is faulty.	-55°C or lower is detected for 5 seconds continuously 3 times within 40 minutes after initial detection of this anomalous temperature. Or-55°C lower is detected for 5 seconds continuously within 20 seconds after power ON.	(3 times)	C
	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 initial detection of this anomalous temperature. 0r-55°C lower is detected for 5 seconds continuously within 20 seconds after power ON.	(3 times)	C
	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)	C
	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)	C
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)	С
	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 <sup>-1</sup> or lower continues for 30 seconds or longer.	(3 times)	С
	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)	C
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.	_	C
	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	C
	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)	C
6-time flash	1-time flash	61	Connection lines between the indoor and outdoor units are faulty	Connection lines are faulty. Indoor or outdoor PCB are faulty.	When 10 seconds passes after the power is turned on without communications signals from the indoor or outdoor unit being detected correctly.	0	_
	2-time flash	62	Serial transmission error	Indoor or outdoor PCB are faulty. Noise is causing faulty operation.	When 7 minute 35 seconds passes without communications signals from either the outdoor unit or the indoor unit being detected correctly.	0	_
	OFF	80	Indoor unit's fan motor is abnormal	Indoor fan motor is faulty. Connector connections are poor. Indoor PCB is faulty.	When the indoor unit's fan motor is detected to be running at 300 min <sup>-1</sup> or lower speed with the fan motor in the ON condition while the air-conditioner is running.	0	_
	2-time flash	82	Indoor heat exchanger 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.	-	C
	5-time flash	85	Anti-frost control	Indoor unit fan speed drops. Indoor heat exchanger sensor is broken wire.	When the anti-frost control operates and the compressor stops during cooling operation.	_	0
	6-time flash	86	Heating high pressure control	Heating overload operation. Indoor unit fan speed drops. Indoor heat exchanger sensor is short circuit.	When high pressure control operates during heating operation and the compressor stops.	_	C

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

Notes (1) The number of flashes when in the service mode do not include the 1.5 second period when the lights light up at first (start signal). (See the example shown below.)



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

### (d) Operation mode, fan speed mode information tables

(i) Operation mode

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

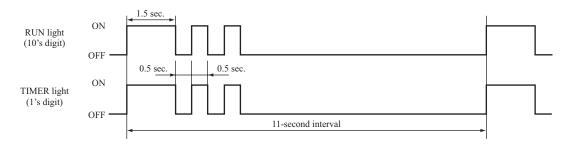
(ii)	Fan speed mode	
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Display pattern when in service mode	Fan speed mode when			
TIMER light (1's digit)	there is an abnormal stop			
_	AUTO			
2-time flash	HI			
3-time flash	MED			
4-time flash	LO			
5-time flash	ULO			
6-time flash	HI POWER			
7-time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

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

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

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



### (e) Temperatare information

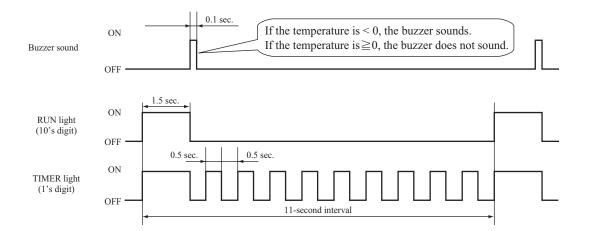
(i) Room temperature sensor, indoor heat exchanger sensor, outdoor air temperature sensor, outdoor heat exchanger sensor temperature

		_			_		_	_		U	nit: °C
	TIMER light (1's digit)										
RUN lig (10's di Buzzer sound	yht 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
X	4	-40	-41	-42	-43	-44	-45	-46	-47	-48	-49
Yes (sounds for 0.1 second)	3	-30	-31	-32	-33	-34	-35	-36	-37	-38	-39
(countre for on cocontra)	2	-20	-21	-22	-23	-24	-25	-26	-27	-28	-29
	1	-10	-11	-12	-13	-14	-15	-16	-17	-18	-19
	0		-1	-2	-3	-4	-5	-6	-7	-8	-9
	0	0	1	2	3	4	5	6	7	8	9
	1	10	11	12	13	14	15	16	17	18	19
	2	20	21	22	23	24	25	26	27	28	29
	3	30	31	32	33	34	35	36	37	38	39
No	4	40	41	42	43	44	45	46	47	48	49
(does not sound)	5	50	51	52	53	54	55	56	57	58	59
	6	60	61	62	63	64	65	66	67	68	69
	7	70	71	72	73	74	75	76	77	78	79
	8	80	81	82	83	84	85	86	87	88	89
	9	90	91	92	93	94	95	96	97	98	99

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

Sensor name	Sensor value displayed when the error code is normal
Room temperature sensor	-64°C
Indoor heat exchanger sensor	-64°C
Outdoor air temperature sensor	-64°C
Outdoor heat exchanger sensor	-64°C

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



### (ii) Discharge pipe sensor temperature

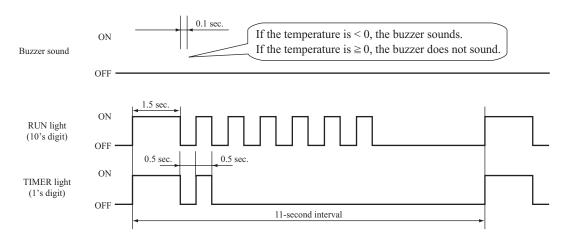
										Uı	nit: °C
RUN lig (10's di Buzzer sound	TIMER light (1's digit) ht git)	0	1	2	3	4	5	6	7	8	9
	3	-60	-62	-64							
Yes	2	-40	-42	-44	-46	-48	-50	-52	-54	-56	-58
(sounds for 0.1 second)	1	-20	-22	-24	-26	-28	-30	-32	-34	-36	-38
	0		-2	-4	-6	-8	-10	-12	-14	-16	-18
	0	0	2	4	6	8	10	12	14	16	18
	1	20	22	24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

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

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

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

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

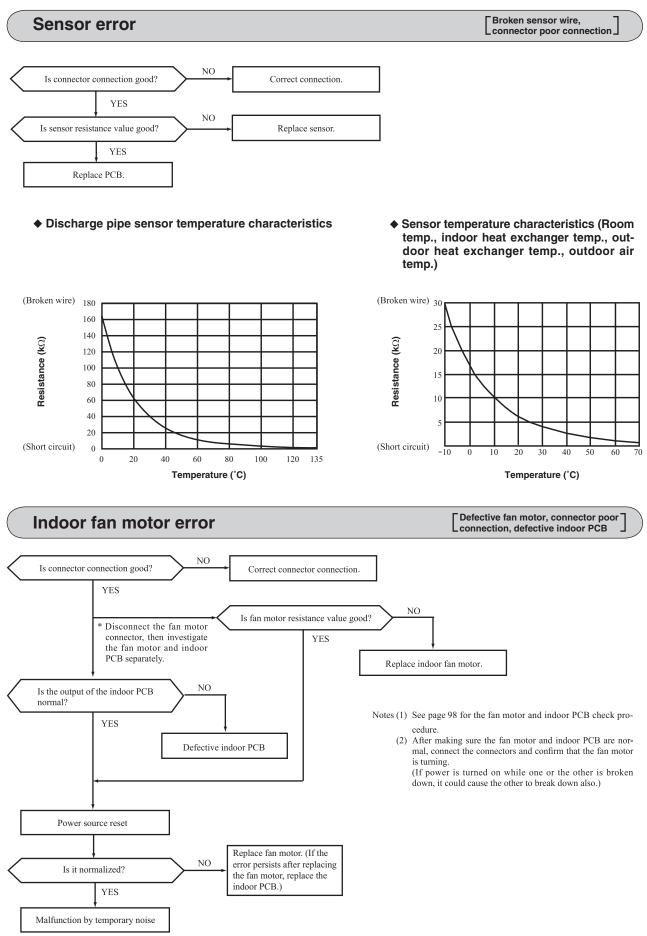


### Service data record form

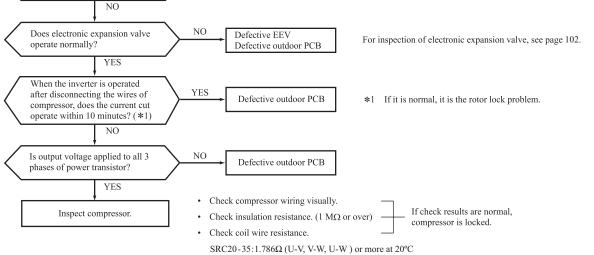
Customer				Model				
Date of inv	-							
Machine na								
Content of	complaint				1			
Wireless remote control		-	Content of displayed d	ata	-	Display resul		Display conte
Temperature setting	Operation mode	Fan speed mode	content of displayed a		Buzzer (Yes/No.)	RUN light (Times)	TIMER light (Times)	1 5
		MED	Error code on previous occasion.	or code on previous occasion.				
	Cooling	HI	Room temperature sensor on previous occasi	on.				
		AUTO	Indoor heat exchanger sensor 1 on previous o	ccasion.				
21		LO	Wireless remote control information on previ	ous occasion.				
	Heating	MED	Outdoor air temperature sensor on previous o	ccasion.				
	meaning	HI	Outdoor heat exchanger sensor on previous o	ccasion.				
		AUTO	Discharge pipe sensor on previous occasion.					
26	Cooling	AUTO	Indoor heat exchanger sensor 2 on previous o	oor heat exchanger sensor 2 on previous occasion.				
		MED	Error code on second previous occasion.					
	Cooling	HI	Room temperature sensor on second previous	occasion.				
		AUTO	Indoor heat exchanger sensor 1 on second previ	ous occasion.				
22		LO	Wireless remote control information on second	eless remote control information on second previous occasion.				
	Heating	MED	Outdoor air temperature sensor on second pre	vious occasion.				
	Heating	HI	Outdoor heat exchanger sensor on second pre	vious occasion.				
		AUTO	Discharge pipe sensor on second previous occ	casion.				
27	Cooling	AUTO	Indoor heat exchanger sensor 2 on second occ	casion.				
		MED	Error code on third previous occasion.					
	Cooling	HI	Room temperature sensor on third previous o	ccasion.				
		AUTO	Indoor heat exchanger sensor 1 on third previ	ous occasion.				
23	Heating	LO	Wireless remote control information on third	previous occasion.				
		MED	Outdoor air temperature sensor on third previ	ous occasion.				
		HI	Outdoor heat exchanger sensor on third previ	ous occasion.				
		AUTO	Discharge pipe sensor on third previous occas	ion.				
28	Cooling	AUTO	Indoor heat exchanger sensor 2 on third occas	ion.				
		MED	Error code on fourth previous occasion.					
	Cooling	HI	Room temperature sensor on fourth previous	occasion.				
		AUTO	Indoor heat exchanger sensor 1 on fourth prev	vious occasion.				
24		LO	Wireless remote control information on four	h previous occasion.				
	II the s	MED	Outdoor air temperature sensor on fourth prev	vious occasion.				
	Heating	HI	Outdoor heat exchanger sensor on fourth prev	ious occasion.				
		AUTO	Discharge pipe sensor on fourth previous occ	asion.				
29	Cooling	AUTO	Indoor heat exchanger sensor 2 on fouth occa	sion.				
		MED	Error code on fifth previous occasion.					
	Cooling	HI	Room temperature sensor on fifth previous or	casion.				
		AUTO	Indoor heat exchanger sensor 1 on fifth previo	ous occasion.				
25		LO	Wireless remote control information on fifth	previous occasion.				
	<b>**</b> .*	MED	Outdoor air temperature sensor on fifth previo	ous occasion.				
	Heating	HI	Outdoor heat exchanger sensor on fifth previo	ous occasion.				
		AUTO	Discharge pipe sensor on fifth previous occas	ion.				
30	Cooling	AUTO	Indoor heat exchanger sensor 2 on fifth occas	ion.				
21			Stop code on previous occasion.					
22			Stop code on second previous occasion.					
23			Stop code on second previous occasion.					
24			Stop code on fourth previous occasion.					
25	0.1	1.0	Stop code on fifth previous occasion.					
26	Cooling	LO Stop code on sixth previous occasion. Stop code on seventh previous occasion.						
27								
28		Stop code on sevenin previous occasion. Stop code on eighth previous occasion.						
29			Stop code on ninth previous occasion.					
30			Stop code on tenth previous occasion.					
1.1					-			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 85.)

### (7) Inspection procedures corresponding to detail of trouble



	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.
$\langle$	In the service valves of the outdoor unit open?	Open the service valves.
/	Is there any shortcircuit?	Secure space for inlet and

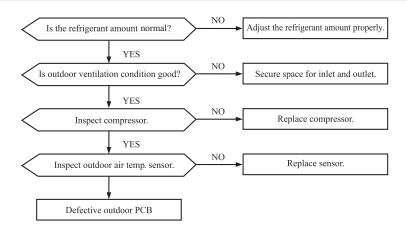


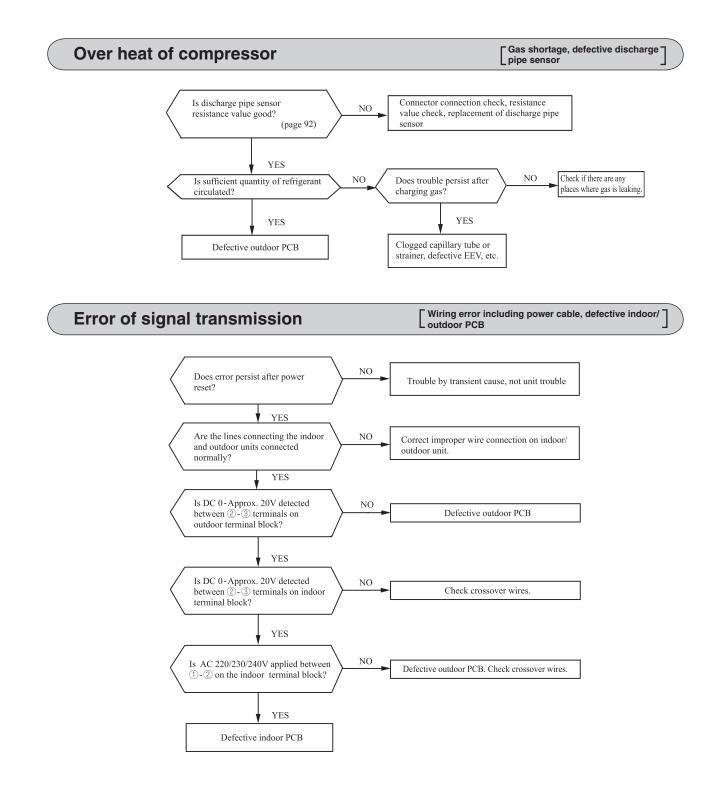
outlet.

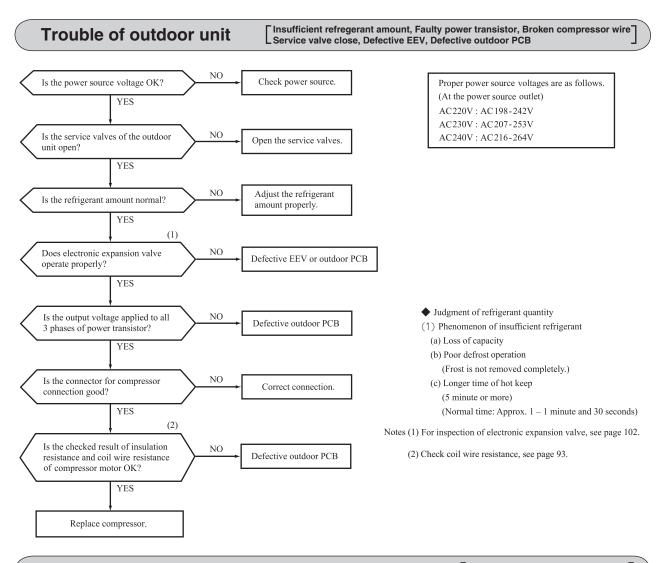
SRC50, 60:1.452 $\Omega$  (U-V, V-W, U-W ) or more at 20°C

**Current safe stop** 

Overload operation, compressor

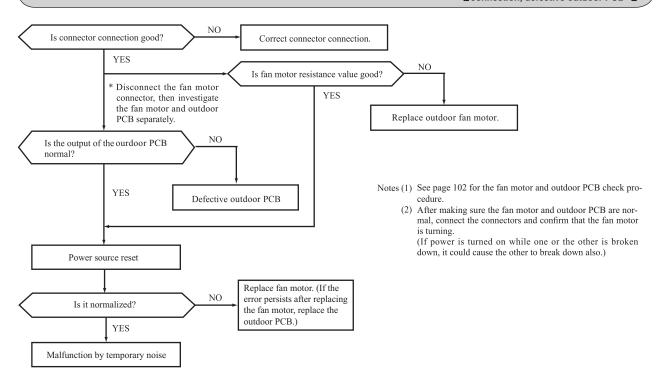




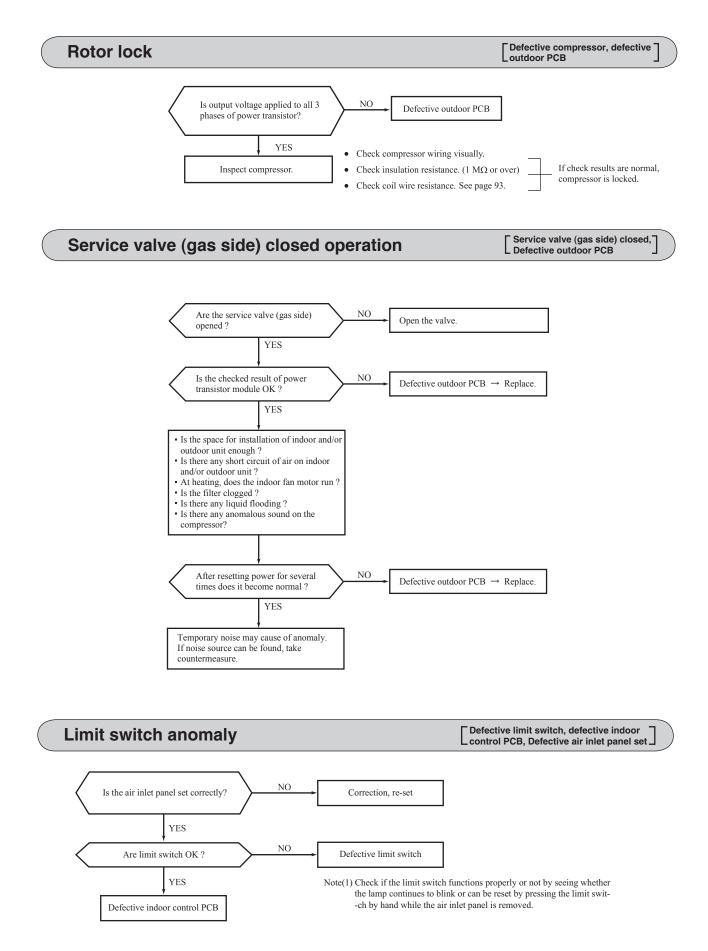


## Outdoor fan motor error

Defective fan motor, connector poor connection, defective outdoor PCB



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

### (a) Indoor unit

Sensor	Operation	Phenomenon				
mode		Shortcircuit	Disconnected wire			
Room temperature Cooling		Release of continuous compressor operation command.	Continuous compressor operation command is not released.			
sensor	Heating	Continuous compressor operation command is not released.	Release of continuous compressor operation command.			
Heat exchanger sensor	Cooling	Freezing cycle system protection trips and stops the compressor.	Continiuous compressor operation command is not released. (Anti-frosting)			
301301	Heating	High pressure control mode (Compressor stop command)	Hot keep (Indoor fan stop)			
Lumidity concer	Cooling	Refer to the table below.	Refer to the table below.			
Humidity sensor	Heating	Normal system operation is possible.				

### Humidity sensor operation

	Failure mode	Control input circuit reading	Air-conditioning system operation
cted	① Disconnected wire		
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.

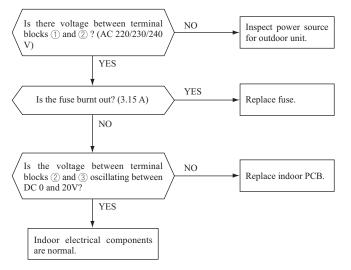
Remark: Do not perform a continuity check of the humidity sensor with a tester. If DC current is applied, it could damage the sensor.

### (b) Outdoor unit

Sensor	Operation	Phenomenon			
Sensor	mode	Shortcircuit	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.		

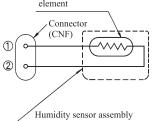
# (9) Checking the indoor electrical equipment

## (a) Indoor PCB check procedure





Humidity sensor



element

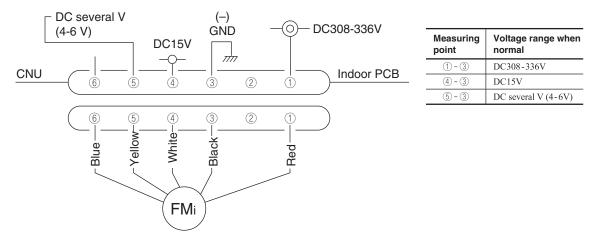
### (b) Indoor unit fan motor check procedure

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

### 1) Indoor PCB output check

- a) Turn off the power.
- b) Remove the front panel, then disconnect the fan motor lead wire connector.
- c) Turn on the power. If the unit operates when the ON/OFF button is pressed, if trouble is detected after the voltages in the following figure are output for approximately 30 seconds, it means that the indoor PCB is normal and the fan motor is broken down.

If the voltages in the following figure are not output at connector pins No. (1), (4) and (5), the indoor PCB has failed and the fan motor is normal.

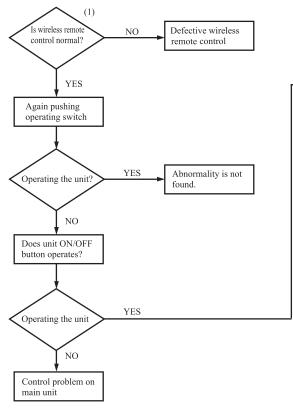


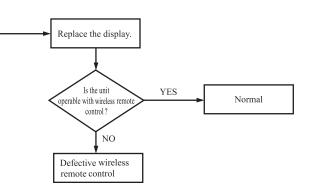
### 2) Fan motor resistance check

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

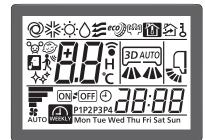
Notes (1) Remove the fan motor and measure it without power connected to it. (2) If the measured value is below the value when the motor is normal, it means that the fan motor is faulty.

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



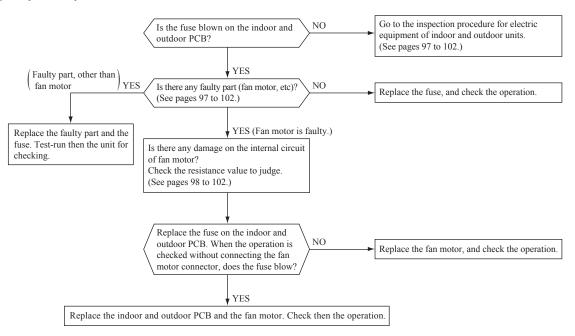


Note (1) Check method of wireless remote control (a) Press the reset switch of the wireless remote control. (b) If all LCD are displayed after one (1) display, it is basically normal.



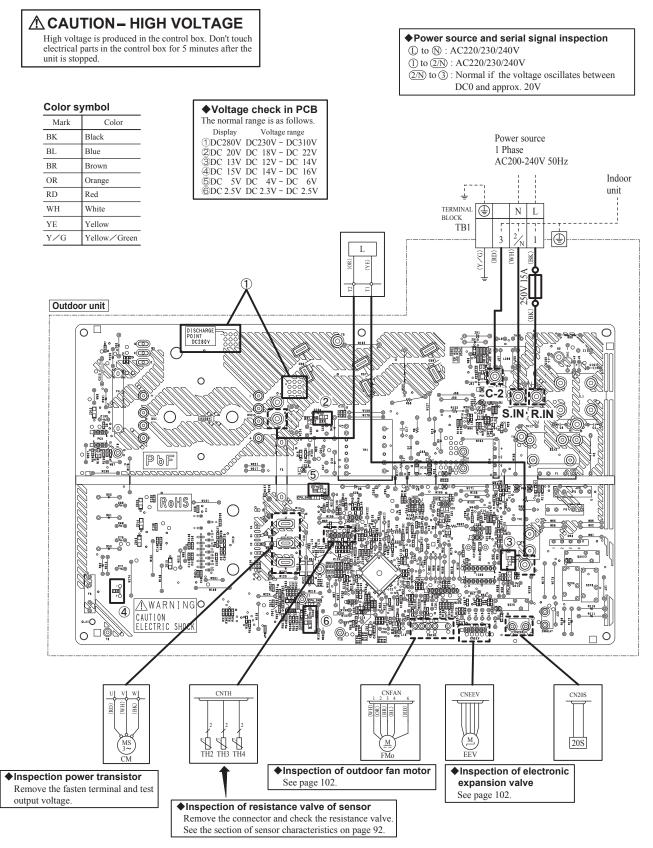
Simplified check method of wireless remote control It is normal if the signal transmission section of the wireless remote control emits a whitish light at each transmission on the monitor of digital camera.

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



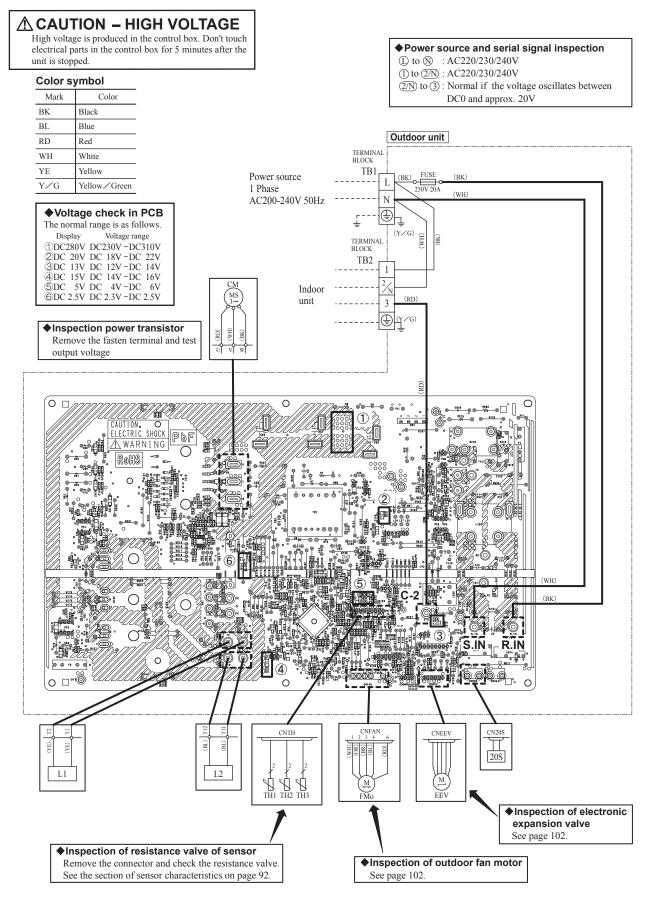
### (12) Outdoor unit inspection points Models SRC20ZSX-W, 25ZSX-W, 35ZSX-W

### Check point of outdoor unit



### Models SRC50ZSX-W, 60ZSX-W

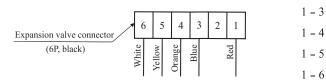
### Check point of outdoor unit



### (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.



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

- (iii) If voltage is detected, the outdoor PCB is normal.
- (iv) If the expansion valve does not operate (no operating sound) while voltage is detected, the expansion valve is defective.

### · Inspection of electronic expansion valve as a separate unit

Measure the resistance between terminals with an analog tester.

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

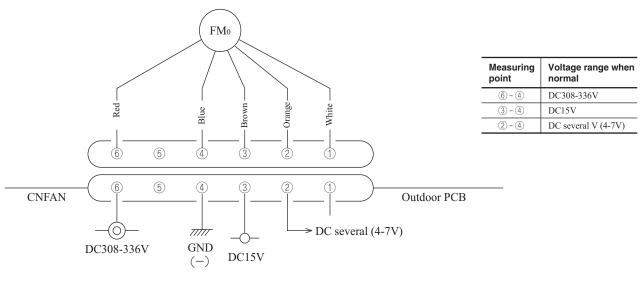
#### (b) Outdoor unit fan motor check procedure

- When the outdoor unit fan motor error is detected, diagnose which of the outdoor unit fan motor or outdoor PCB is defective.
- Diagnose this only after confirming that the indoor unit is normal.
- (i) Outdoor PCB output check
  - 1) Turn off the power.
  - 2) Disconnect the outdoor unit fan motor connector CNFAN.

3) When the indoor unit is operated by inserting the power source plug and pressing (ON) the backup switch for more than 5 seconds, if the voltage of pin No. ② in the following figure is output for 30 seconds at 20 seconds after turning "ON" the backup switch, the outdoor PCB is normal but the fan motor is defective.

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

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



#### (ii) Fan motor resistance check

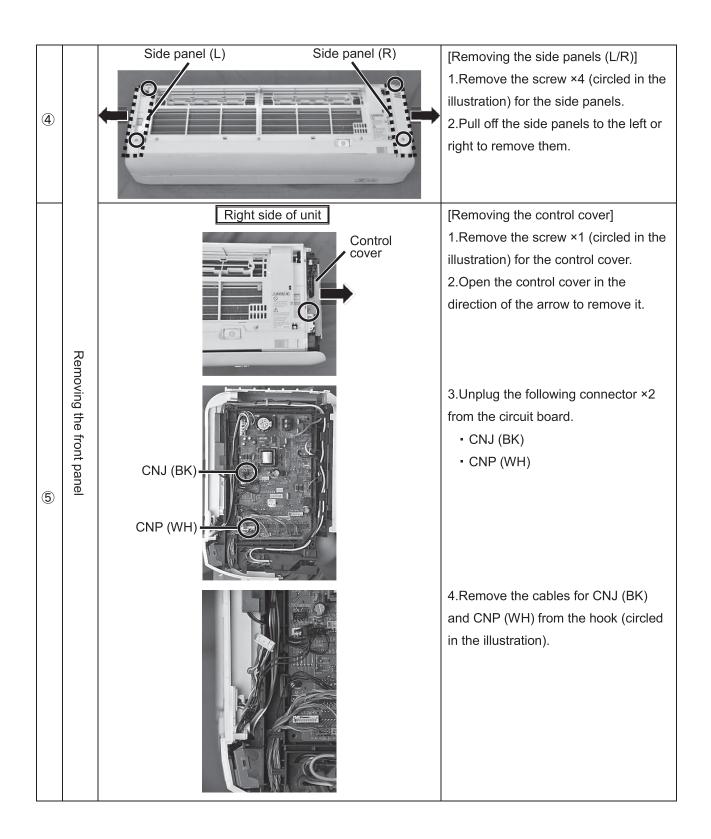
Measuring point	Resistance when normal
6 - 4 (Red - Blue)	20 M $\Omega$ or higher
③ - ④ (Brown - Blue)	20 k $\Omega$ or higher

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

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

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

# **11. INDOOR UNIT DISASSEMBLY PROCEDURE**



6	Removing the front panel		[Removing the front panel] 1.Remove the screw ×3 (circled in the illustration) for the front panel. 2.Press the tab ×4 (circled in the illustration) at the top to unhook them from the base. 3.Holding both sides of the front panel, pull it forward to remove it.
$\overline{\mathcal{O}}$	Removing the control box ASSY	Right side of unitEarth wire screwControl box screwImage: scalar sc	<ul> <li>1.Remove the earth wire screw ×2 (circled in the illustration).</li> <li>2.Remove the screw ×3 (circled in the illustration) for the control box.</li> <li>3.Unplug the following connector ×6 from the circuit board.</li> <li>CNU (WH)</li> <li>CNL (BK)</li> <li>CNZ (RD)</li> <li>CNX (GN)</li> <li>CNY (YE)</li> <li>CNM (BL)</li> </ul>
			4.Remove the six cables for CNU (WH), CNL (BK), CNZ (RD), CNX (GN), CNY (YE) and CNM (BL) from the guide (circled hook-shaped parts).

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

		[Removing the fan motor ASSY]
	Right side of unit	1.Remove the screw ×3 (circled in the
10	Fan motor ASSY	illustration) for the fan motor ASSY.
		2.Loosen the screw ×1 (circled in the
		illustration) for the fan.
		3.Pull out the fan motor ASSY
		horizontally to the right.
Ren		Caution
Removing the fan motor	·	When pulling it out, be careful that the
ום th		fan motor axle does not catch on the
le fa		fan bearing.
n ma	Left side Right s	
otor		1.Release the hook ×4 (circled in the
	10-	illustration), and then remove the
		motor case (U).
	F	
1		
1 1	Motor case (U)	
1		motor case (U).

		Left side of unit Right side of unit	1.Remove the screw ×4 (circled in the
Removing the fan	Rem		illustration) on the left and right sides of the heat exchanger.
	ving the fan	Fire Sector	<ul> <li>2.While lifting up and supporting the left side of the heat exchanger, pull out the fan to the left, keeping it angled down.</li> <li>Caution <ul> <li>While replacing the fan, be sure to use screws (for the screw positions, refer to step ①-1) to secure the heat exchanger in order to prevent it</li> </ul> </li> </ul>
		Fan	from falling.
(3)	Removing the gear box ASSY (L/R) and motion sensor ASSY	Gear box ASSY (L/R)	<ul> <li>1.Remove the screw ×4 (circled in the illustration) for the gear box ASSY (L/R), and then remove the gear box ASSY (L/R) from the front panel.</li> <li>2.Remove the screw ×2 (circled in the illustration) for the motion sensor ASSY, and then remove the motion sensor ASSY from the front panel.</li> </ul>

## 12. OPTION PARTS

## (1) Wired remote control

(a) Model RC-EX3

## 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.

<u>∧</u> WARNING	Failure to follow these instructions properly may result in serious consequences such as death, severe injury, etc.
	Failure to follow these instructions properly may cause injury or property damage.

It could have serious consequences depending on the circumstances.

• The following pictograms are used in the text.



Never do.



Always follow the instructions given.

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

	<u> </u>
0	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.
	nstallation work should be performed properly according to this nstallation 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.
	nstall 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 nstaller, and use exclusive circuit. Power source with insufficient and improper work can cause electric shock and fire.
0	Shut OFF the main power source before starting electrical work. Otherwise, it could result in electric shocks, break-down or malfunction.
	<b>Do not modify the unit.</b> It could cause electric shocks, fire, or break-down.
	Be sure to turn OFF the power circuit breaker before repairing/ nspecting the unit. Repairing/inspecting the unit with the power circuit breaker turned ON could cause electric shocks or injury.

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	<u> </u> MARNING
$\bigcirc$	Do not install the unit in appropriate environment or where inflammable gas could generate, flow in, accumulate or leak. If the unit is used at places where air contains dense oil mist, steam, organic solvent vapor corrosive gas (ammonium, sulfuric compound, acid, etc) or where acidic or alkaline solution, special spray, etc. are used, it could cause electric shocks, break-down, smoke of fire as a result of significant deterioration of its performance or corrosion.
$\bigcirc$	Do not install the unit where water vapor is generated excessively or condensation occurs. It could cause electric shocks, fire, or break-down.
$\bigcirc$	Do not use the unit in a place where it gets wet, such as laundry room. It could cause electric shocks, fire, or break-down.
$\bigcirc$	Do not operate the unit with wet hands. It could cause electric shocks.
$\bigcirc$	Do not wash the unit with water. It could cause electric shocks, fire, or break-down.
0	Use the specified cables for wiring, and connect them securely with care to protect electronic parts from external forces. Improper connections or fixing could cause heat generation, fire, etc.
0	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.
0	<ul> <li>When installing the unit at a hospital, telecommunication facility, etc., take measures to suppress electric noises.</li> <li>It could cause malfunction or break-down due to hazardous effects on the inverter, private power generator, high frequency medical equipment, radio communication equipment, etc.</li> <li>The influences transmitted from the remote control to medical or communication equipment could disrupt medical activities, video broadcasting or cause noise interference.</li> </ul>
0	<b>Do not leave the remote control with its upper case removed.</b> If dew, water, insect, etc. enters through the hole, it could cause electric shocks, fire or break-down.

## 

## 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 provi	ded.				
Accessories	R/C main unit, wood screw (Ф3.5 x 16) 2 pcs, Quick reference				
Following parts are arranged at	site. Prepare them according to the res	pective installation procedu	ires.		
Item name Q'ty Remark					
Switch box For 1 piece or 2 pieces (JIS C 8340 or equivalent)		1			
Thin wall steel pipe for electric appliance directly on a wall. (JIS C 8305 or equivalent)		As required	These are not required when installing directly on a wall.		
Lock nut, bushing (JIS C 8330 or equivalent)		As required			
Lacing (JIS C 8425 or equivalent)		As required	Necessary to run R/C cable on the wall.		
Putty		Suitably	For sealing gaps		
Molly anchor		As required			
R/C cable (0.3 mm <sup>2</sup> x 2	pcs)	As required	See right table when longer than 100 m		

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

$\leq$ 200 m	0.5 mm <sup>2</sup> x 2 cores
$\leq$ 300m	0.75 mm <sup>2</sup> x 2 cores
$\leq$ 400m	1.25 mm <sup>2</sup> x 2 cores
$\leq$ 600m	2.0 mm <sup>2</sup> x 2 cores

## 3. Installation place

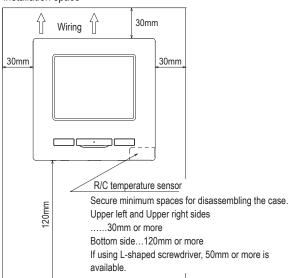
Secure the installation space shown in the figure.

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

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

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

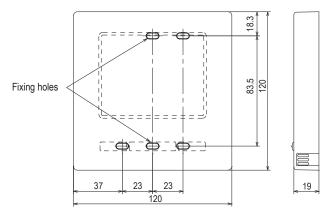




## 4. Installation procedure

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

Dimensions (Viewed from front)



To remove the upper case from the bottom cases of R/C

 $\cdot$  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.

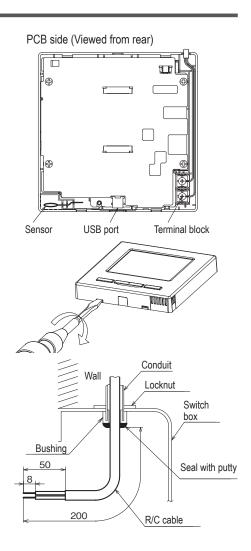
Take care to protect the removed upper case from moisture or dust.

In case of embedding wiring

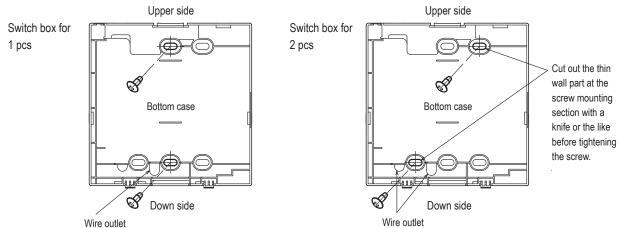
(When the wiring is retrieved "Backward")

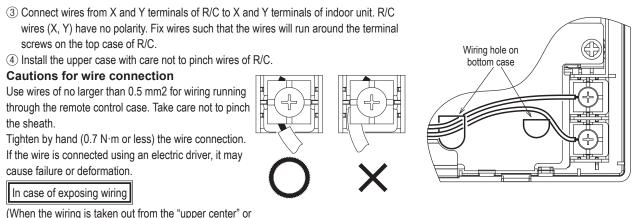
① Embed the switch box and the R/C wires beforehand.

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.



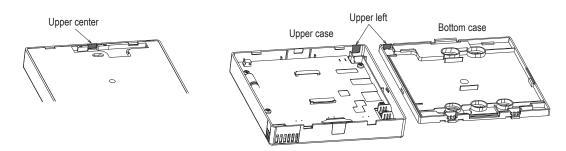


(When the wiring is taken out from the "upper cent "upper left" of R/C)

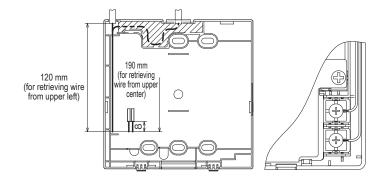
① Cut out the thin wall sections on the cases for the size of wire.

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.

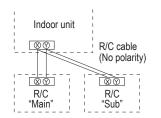


## 5 . Main/Sub setting when more than one remote control are used

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.



Set the "Main" and "Sub" as described at Section 8.

R/C operations			Main	Sub	R/C ope
Run/Stop, Change set temp, Change flap direction, Auto swing, Change fan speed operations			0	0	Service setting
High power o	peration, En	ergy-saving operation	0	0	
Silent mode of	control		0	×	
Useful	Individual fl	0	×		
functions	Anti draft se	etting	0	×	
	Timer		0	0	
	Choice sett	ing	0	0	
	Weekly tim	er	0	×	
	Home leave	e mode	0	×	
	External ve	0	0		
	Select the I	0	0		
Energy-saving setting			0	×	
Filter	Filter sign r	eset	0	0	
User setting	Initial settings			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	
		Switch function change	0	0	

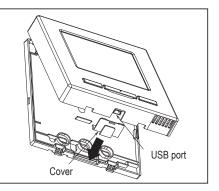
○: operable ×: not operable				
rations			Main	Sub
Installation	Installation date		0	x
settings	Company information		0	0
	Test run		0	×
	Static pr	essure adjustment	0	×
	Change auto-address		0	×
	Address	setting of main IU	0	×
	IU back-	up function	0	×
	Infrared setting	sensor (motion sensor)	0	x
R/C function	Main/Su	b of R/C	0	0
settings	Return a	iir temp	0	×
	R/C sen	sor	0	x
	R/C sen	sor adjustment	0	×
	Operatio	on mode	0	×
	°C / °F		0	×
	Fan speed		0	×
	External input		0	×
	Upper/lower flap control		0	×
	Left/righ	t flap control	0	×
	Ventilation setting		0	×
	Auto-restart		0	×
	Auto temp setting		0	×
	Auto fan	speed	0	×
IU settings			0	×
Service &	IU addre	SS	0	0
Maintenance	Next ser	vice date	0	×
	Operatio		0	×
	Error	Error history	0	0
	display	Display/erase anomaly data	0	×
		Reset periodical check	0	0
		U settings	0	×
		Erase IU address	0	×
	settings	CPU reset	0	0
		Restore of default setting	0	×
		Touch panel calibration	0	0
	Indoor u	nit capacity display	0	x

### 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 or refer to the engineering data.



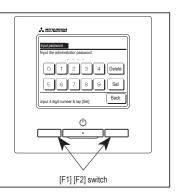
### Advice: Initializing of password

Administrator password (for daily setting items) and

service password (for installation, test run and maintenance) are used.

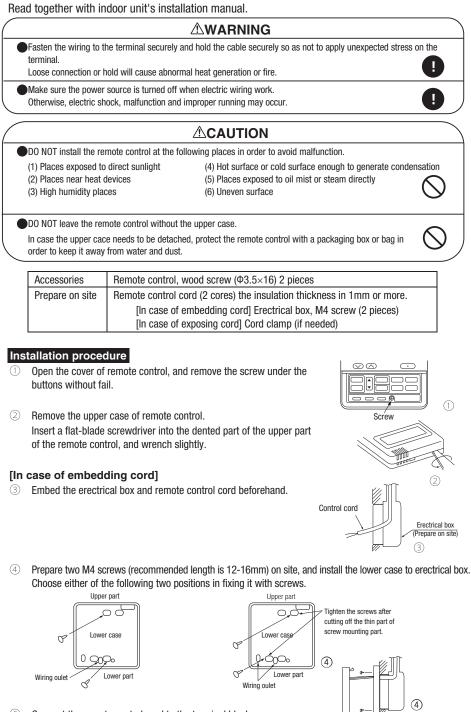
- $\circ$  The administrator password at factory default is "0000". This setting can be changed (Refer to User's Manual).
- If the administrator password is forgotten, it can be initialized by holding down the [F1] and [F2] switches together for five seconds on the administrator password input screen.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

When the administrator password is input, the service password is also accepted.



## PJA012D730

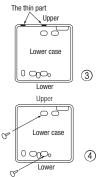
### (b) Model RC-E5



- S Connect the remote control cord to the terminal block. Connect the terminal of remote control (X,Y) with the terminal of indoor unit (X,Y). (X and Y are no polarity)
- Install the upper case as before so as not to catch up the remote control cord, and tighten with the screws.

#### [In case of exposing cord]

- ③ You can pull out the remote control cord from left upper part or center upper part. Cut off the upper thin part of remote control lower case with a nipper or knife, and grind burrs with a file etc.
- ④ Install the lower case to the flat wall with attached two wooden screws.

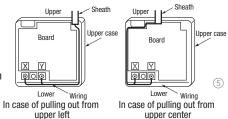


M4 screw× 2 (Prepare on site)

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

with the terminal of indoor unit (X,Y).

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



The wiring inside the remote control case should be within  $0.3 \text{mm}^2$  (recommended) to  $0.5 \text{mm}^2$ . The sheath should be peeled off inside the remote control case.

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

Pulling out from upper left	Pulling out from upper center	<b>~</b>
X wiring : 215mm	X wiring : 170mm	The peeling-off length
Y wiring : 195mm	Y wiring : 190mm	of sheath

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

#### Installation and wiring of remote control

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

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

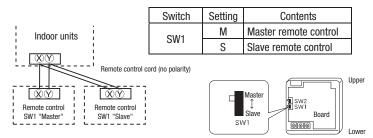
But, wiring in the remote control case should be under 0.5mm<sup>2</sup>. Change the wire size outside of the case according to wire connecting. Waterproof treatment is necessary at the wire connecting section. Be careful about contact failure.

100 - 200m ······	······0.5mm <sup>2</sup> $\times$ 2 cores
Under 300m	$\cdots 0.75$ mm <sup>2</sup> × 2 cores
Under 400m	$\dots 1.25 \text{mm}^2 \times 2 \text{ cores}$
Under COOre	0.0

#### Under 600m······2.0mm<sup>2</sup> × 2 cores

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

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



Set SW1 to "Slave" for the slave remote control. It was factory set to "Master" for shipment. Note: The setting "Remote control thermistor enabled" is only selectable with the master remote control

in the position where you want to check room temperature.

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

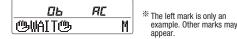
#### The indication when power source is supplied

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

Master remote control : "	®₩AIT®	Μ"
Slave remote control : "	®₩AIT®	S''

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

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



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

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

**INSPECT I/U** 

#### The range of temperature setting

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

Heating : 16-30°C (55-86°F) Except heating (cooling, fan, dry, automatic) : 18-30°C (62-86°F)

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

Upper limit setting: valid during heating operation. Possible to set in the range of 20 to 30°C (68 to 86°F). Lower limit setting: valid except heating (automatic, cooling, fan, dry) Possible to set in the range of 18 to 26°C (62 to 79°F).

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

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

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

[ If lower limit value is set ]

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

- 2. When <a>Description Temp Pange SET, remote control function of function setting mode is "NO INDN CHANGE"</a>
  - [ If upper limit value is set ]

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

[ If lower limit value is set ]

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

#### How to set upper and lower limit value

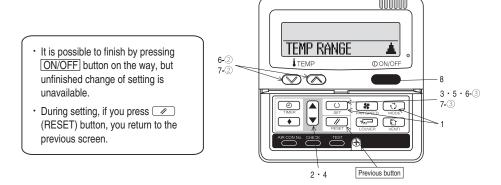
1. Stop the air-conditioner, and press O(SET) and (MODE) button at the same time for over three seconds .

The indication changes to "FUNCTION SET ▼".

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

③ Press <u>○</u>(SET) button to fix. Indication example: "UPPER 26°C" (Displayed for two seconds) After the fixed upper limit value displayed for two seconds, the indication will return to "UPPER LIMIT ▼".

- 7. When "LOWER LIMIT **A**" is selected (valid during cooling, dry, fan, automatic)
  - ① Indication: " $\bullet \lor \land$  SET UP"  $\rightarrow$  "LOWER 18°C  $\land$ "
  - O Select the lower limit value with temperature setting button  $\fbox{O}$ . Indication example: "LOWER 24°C  $\lor$   $\land$ " (blinking)
  - ③ Press <u>○</u>(SET) button to fix. Indication for example: "LOWER 24°C" (Displayed for two seconds) After the fixed lower limit value displayed for two seconds, the indication will return to "LOWER LIMIT ▼".
- 8. Press ON/OFF button to finish.



functional setting				
0 71	0 1	l auton	atically by the indoor unit connected, when remote	
ntrol and indoor unit are connu		ho no	need to change the initial settings.	
			vour desired setting as for the selected item.	
e procedure of functional sett				
w of function setting	a			
-	-			
: Stop air-conditioner and p	s at the same time for ove		Record and keep the	
ze : Press "O," (SET) but			seconds. setting	
t : Press " (RESET)	button.			
t : Press ( v button. : Press ( N/OFF) button.			Consult the technical data etc. for each control details	
ossible to finish above setting o	n the way,			
nfinished change of setting is u	navailable.	5	top air-conditioner and press	
: Initial settings : Automatic criterion		0	). (SET) + 💿 (MODE) buttons	
		at the	same time for over three seconds.	
			FUNCTION SET V	
				To next page
(Remote control fu	inction)			
Function				
01 USE ESP SET	setting			
	STALLD STALLD	0	Validate setting of ESP:External Static Pressure Invalidate setting of ESP	
02 AUTO RUN SET				
	AUTO RUN ON Auto Run Off	*	A. 4	
0.3 MICH TEMP SW			Automatical operation is impossible	
	6년전 VALID 6년전 INVALID	0	Temperature setting button is not working	
04 📧 MODE SW			remperature setting button is not working	
	8년 YALID 8년 INWALID	0	Mode button is not working	
05 @ ON/OFF SW	•	-		
	もの WALID もの INVALID		On/Off button is not working	
06 SEFAN SPEED SW				
	8년 WALID 8년 INWALID	*	Fan speed button is not working	
07 C. LOUVER SW	ප⊡ ₩110	×		
	8년 INVALID	*	Louver button is not working	
08 © TIMER SW	and	0		
	ନ୍ତା MIID ଜାତା INMIID		Timer button is not working	
* 09 ESENSOR SET	ESENSOR OFF	0	Remote thermistor is not working.	
	ESSENSOR ON		Remote thermistor is working.	
	EISENSOR +3.0% EISENSOR +2.0%	_	Remote thermistor is working, and to be set for producing +3.0°C increase in temperature. Remote thermistor is working, and to be set for producing +2.0°C increase in temperature.	
	ESENSOR +1.0%		Remote thermistor is working, and to be set for producing +1.0°C increase in temperature.	
	EISENSOR -1.0% EISENSOR -2.0%	+	Remote thermistor is working, and to be set for producing -1.0°C increase in temperature. Remote thermistor is working, and to be set for producing -2.0°C increase in temperature.	
A AUTO DECTADE	ESENSOR -3.0c		Remote thermistor is working, and to be set for producing -3.0°C increase in temperature.	
10 AUTO RESTART	INVALID	0		
11 VENT LINK SET	VALID			
	NO VENT	0		
			In case of Single split series, by connecting ventilation device to CnT of the	
	VENTLINK		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	
		_	operation of indoor unit.	
	NO VENT LINK		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	
12 TEMP RANGE SET			board), you can operate /stop the ventilation device independently by 💼 (VENT) button.	
	INON CHANGE	0	If you change the range of set temperature, the indication of set temperature	
	NO INDI CHANGE	Ť	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.	
13 I/UFAN	HI-MID-LO	*	Air flow of fan becomes of <b>*</b>	
	HI-LO	*	Air flow of fan becomes of and and and a second and as	
	HI-MID 1 Fan Speed	*	Air flow of fan becomes of the speed. Air flow of fan is fixed at one speed.	
	E		If you change the remote control function "14 호근 POSI ITON",	
<u>14</u> =⇒¬⊐ POSITION	٦		you must change the indoor function "04 ⇒ POSITION" accordingly.	
	4PUSETION STOP	0	You can select the louver stop position in the four.	
15 MODEL TYPE	FREE STOP		The louver can stop at any position.	
	HEAT PUMP Cooling only	*		
16 EXTERNAL CONTROL SET	COOLING ONLI	*		
	INDIVIDUAL	0	If you input signal into CnT of the indoor printed circuit board from external, the	
	FOR ALL UNLTS		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	
17 ROOM TEMP INDICATION SET			connect to the same remote control are operated according to the input from external.	
	INDICATION OFF	0		
	INDICATION ON		In normal working indication, indoor unit temperature is indicated instead of airflow. (Only the master remote control can be indicated.)	
18 XOINDICATION			(Unity the master remote control can be mulcated.)	
	INDICATION ON INDICATION OFF	0	Heating preparation indication should not be indicated.	
19 C/1 SET	Langeson ton Off		היסמוווא איסטמענוטר וווטוטענוטרו טווטטענט ווטוטענוסט.	
	8	0	Temperature indication is by degree C	
	17		Temperature indication is by degree F	To next page
Note (1)*The mark can	not use SRK serles.		ON/OFF button	
			(finished)	

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

Function No.	Item	Default	Model
Remote control	AUTO RUN SET	AUTO RUN ON	"Auto-RUN" mode selectable indoor unit.
function02		AUTO RUN OFF	Indoor unit without "Auto-RUN" mode
Remote control	ISSIFAN SPEED S₩	குண VALID	Indoor unit with two or three step of air flow setting
function06		டு 📧 INVALID	Indoor unit with only one of air flow setting
Remote control	EZI LOUVER SW	ଓ 🖾 VALID	Indoor unit with automatically swing louver
function07		e 🖾 INVALID	Indoor unit without automatically swing louver
Remote control	1/U FAN	HT-#BD-LD	Indoor unit with three step of air flow setting
function13		HI-10	Indoor unit with two step of air flow setting
		HI-ND	
		1 FAN SPEED	Indoor unit with only one of air flow setting
Remote control	MODEL TYPE	heat punp	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".

n previous page	Indoor ur	nit No. are indicated only wh	en			setting of "HIC		oor unit air flow se	tting	
(Indoor unit function) I/UR					Far	n tap	8ad - 8ad - 8ad - 8ad			Red - Ref
		Function								
	I/U000 ▲	* 02 FAN SPEED SET	setting		FAN SPEED	STANDARD	UH - Hi - Me - Lo	Hi - Me - Lo	Hi - Lo	Hi - Me
	I/U001 🕈		standard	*	SET	HIGH	UH - UH - Hi - Me	UH - Hi - Me	UH - Me	UH - Hi
	1/002\$		HIGH SPED 1	*		SPEED1, 2				011-11
	1/003 ¢ 1/004 ¢	* 03 FILTER SIGN SET	HIGH SPEED 2				ome indoor unit is "HIGH			
	1/00014		INDICATION OFF		4 speed is r	lot able to be	set with wireless remote c	ontrol.		
			TYPE 1	0	The filter sign i	s indicated af	ter running for 180 hours.			
To set other	indoor unit, press		TYPE 2				ter running for 600 hours.			
	button, which		TYPE 3 TYPE 4				ter running for 1000 hours ter running for 1000 hours		it will be stop	nod by
	b go back to the inde	or	1011.4		compulsion aft		ter fulfilling for 1000 flours	, men me mooor un	ir will be stop	peaby
unit selectio		04 - POSITION	_				ction "04 ⇒77 POSITION			
	e: I/U 000 ▲ ).						e control function "14		ngly.	
(ioi olampi			4POSITION STOP	0			op position in the four.			
		05 EXTERNAL INPUT	FREE STOP		The louver can	stop at any p	position.			
		05 1414	LEVEL INPUT	0						
			PULSE INPUT							
		06 OFBATION PEROSSON/FRANDITION		0						
			INVALID VALID	0	Demoissienten	h the Warman and a start of	-1 - 6			
		* 07 EMERGENCY STOP	VHLID		Permission/pro	nidition contr	ol of operation will be valid	1.		
			INVALID	0						
			VALID		With the VRF s	series, it is us	ed to stop all indoor units	connected with the	ame outdoor	r unit immedia
							from remote on-off termin			
			OFFSET +3.0tc		To be read for	producing .	3.0°C increase in temperat	uro during booting		
			OFFSET +2.0°c		To be reset for	producing +3	2.0°C increase in temperat	ure during heating.		
		* <u>08</u> <b>※</b> SP 0FFSET	OFFSET +1.0%				.0°C increase in temperat			
			NO OFFSET	0						
			OFFSET +2.0%		To be received	dualan . 0.0°	C increase in return air ter	un avaluura of indoor	. mit	
			OFFSET + 1.5%				C increase in return air ter C increase in return air ter			
		* 09 RETURN AIR TEMP	OFFSET +1.0%				C increase in return air ter			
			NO OFFSET	0		0				
			OFFSET -1.0%				C increase in return air ten			
			OFFSET-1.5t				C increase in return air ten			
		* 10 🔅 FAN CONTROL	OFFSET-2.0%		To be reset pro	oducing -2.0°C	C increase in return air ten	perature of indoor i	unit.	
			LOW FAIN SPEED	0	When heating	thermostat is	OFF, fan speed is low spe	ed.		
							OFF, fan speed is set spe			
			set fan speed							
			INTERMI TIENCE				OFF, fan speed is operate OFF, the fan is stopped.	ed intermittently.		
			FAN OFF				is working, "FAN OFF" is	set automatically.		
							the indoor unit's thermiste			
		* 11 FROST PREVENTION TEMP			Change of inde	oor heat excha	anger temperature to start	frost prevention co	ntrol.	
			TEMP HIGH	0						
			TEMP LOW	<u> </u>						
		* 12 FROST PREVENTION CONTROL			Working only v	vith the Single	solit series			
		<u></u>	FAN CONTROL ON				the indoor fan tap is raised	l.		
			FAN CONTROL OFF							
		* 13 DRAIN PUMP LINK	1e.a. '	~	Deale a 1	and the f	- University of the second second			
			参O 参OAND☆		Drain pump is		oling and dry. oling, dry and heating.			
			&omux &omux				oling, dry and rieaung. oling, dry, heating and fan			
			¥0 AND≅				oling, dry and fan.			
		* 14 📽 FAN RENAINING				-				
			NO REMAINING				fan does not perform extr			
			0.5 HOLR 1 HOLR				fan perform extra operatio			
			6 HOUR				fan perform extra operatio fan perform extra operatio			
		* 15 ☆ FAN REMAINING			rater county is	stopped, the	ian pononn exira operatio	AT IOL SIA TIOUIS.		
			NO REMAINING				eating thermostat is OFF,			
			0.5 HOLR		After heating is	s stopped or h	eating thermostat is OFF,	the fan perform extr	a operation fo	or half an hou
			2 HOUR 6 HOUR		After heating is	s stopped or h	eating thermostat is OFF,	the fan perform extr	a operation fo	or two hours.
		* 16 × FAN INTERMITTENCE	IV IIUUN		miler neating is	soppea or h	eating thermostat is OFF,	une nam perform ext	a operation t	UI SIX NOUIS.
			NO REMAINING	0						
			20minOFF swinON				heating thermostat is OF	F, the fan perform ir	termittent op	eration for five
							nty minutes' OFF.	E the fea f 1	4 a ma 14 4 -	ention for P
			suinOFF suinON		During heating with low fan sp		r heating thermostat is OF minutes' OFF	r, the tan perform in	itermittent op	eration for five
		* 17 PRESSURE CONTROL	<u> </u>		mai iow idii Sp	oou aiter iive	minutes OFF.			
			standard	*						
			TYPE1	*	Connected "O/	A Processing"	type indoor unit, and is a	utomatically defined		
n previous page										

		Operation message
Hov 1.	v to set function         Stop air-conditioner and press ○ (SET)          buttons at the same time for over three seconds, and the         "FUNCTION SET ▼ " will be displayed.	Setting description:
	FUNCTION SET	Fixing button
2.	Press O (SET) button.	
	Make sure which do you want to set, "■ FUNCTION ▼"	T Finishing button
	(remote control function) or "I/U FUNCTION ▲" (indoor unit	
4	function). Press ▲ or ▼ button.	Starting button
	Selecct "■ FUNCTION ▼" (remote control function) or "I/U	
	FUNCTION ▲" (indoor unit function).	
		Indoor unit selection button Previous screen button
5		
0.		
6.	[On the occasion of remote control function selection]	[On the occasion of indoor unit function selection]
	① "DATA LOADING" (Indication with blinking)	$\odot$ "DATA LOADING" (Blinking for 2 to 23 seconds to read the data)
	↓ Display is changed to "01 也⊠⊠ ESP SET".	$\downarrow$ Indication is changed to "02 FAN SPEED SET".
		Go to ②.
	<ul> <li>Press  press  with or  button.</li> <li>"No. and function" are indicated by turns on the remote control</li> </ul>	[Note]
	function table, then you can select from them. (For example)	<ol> <li>If plural indoor units are connected to a remote control, the indication is "I/U 000" (blinking) ← The lowest number of the</li> </ol>
		indoor unit connected is indicated.
	AUTO RUN SET	
	③ Press 〇)(SET) button.	
	The current setting of selected function is indicated. (for example) "AUTO RUN ON" ← If "02 AUTO RUN SET" is selected	(2) Press ▲ or ▼ button. Select the number of the indoor unit you are to set If you select *ALL UNIT ▼*, you can set the same setting with all unites.
		(3) Press (3) (SET) button.
	AUTO RUN ON <	
	<ul> <li>④ Press ▲ or ▼ button. Select the setting.</li> </ul>	Press  or  button. "No. and function" are indicated by turns on the indoor unit function table, then you can select from them. (For example)
		B2 ←       FrM SPED SET ←       Function No.
	02           NUTU RN UF           ③ Press ○.(SET)	③ Press ○ (SET) button. The current setting of selected function is indicated. (For example) "STANDARD" ← If "02 FAN SPEED SET" is
	"SET COMPLETE" will be indicated, and the setting will be	selected.
	completed. Then after "No. and function" indication returns, Set as the	STANDARD < Setting
	same procedure if you want to set continuously ,and if to	
	finish, go to 7.	<ul> <li>④ Press ▲ or ▼ button.</li> <li>Select the setting.</li> </ul>
	<u> </u>	
		S Press ()(SET) button. "SET COMPLETE" will be indicated, and the setting will be
		completed. Then after "No. and function" indication returns, set as the same
7.	Press ON/OFF button.	procedure if you want to set continuously , and if to finish, go to 7.
	Setting is finished.	SET CONPLETE
		When <u>plural indoor</u> units are connected to a remote control, press the <u>AIR CON No.</u> button, which allows you to go back to the indoor unit selection screen. (example "I/U 000 <b>A</b> ")
	<ul> <li>It is possible to finish by pressing ON/OFF buttor unavailable.</li> </ul>	n on the way, but unfinished change of setting is
	During setting, if you press      (RESET) butto	
	Setting is memorized in the control and it is saved	a independently of power failure.
	[How to check the current setting ]	
	(How to check the current setting) When you select from "No. and funcion" and press set button b	by the previous operation, the "Setting" displayed first is the current
	setting.	
	(But, if you select "ALL UNIT ▼ ", the setting of the lowest num	nber Indoor unit is displayed.)

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

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

			$\triangle$ : Corresponding part					
Setting & display item		display item	Description					
Re	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.					
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	C			
	OP scrren, Switch manipulat	ion						
	Menu		"Control", "State", or "Details" can be selected. (3-8)	0				
	Operation mode		"Cooling","Heating","Fan","Dry" or "Auto" can be set.	0	C			
	Set temp.		"Set temperature" can be set by 0.5°C interval.	0	C			
ł	Air flow direction		"Air flow direction" [Individual flap control] can be set.	0				
	<b>P</b> 1		Select Enable or Disable for the "3D AUTO".					
	Fan speed Timer setting		"Fan speed" can be set.	0				
	ON/OFF		"Timer operation" can be set.	0				
	F1 SW		"On/Off operation of the system" can be done. The system operates and is controlled according to the function specified to the F1 switch.	0	-			
	F2 SW		The system operates and is controlled according to the function specified to the F1 switch.	0	<u> </u>			
	seful functions		The system operates and is controlled according to the function specified to the 12 switch.					
	Individual flap control		The moving range (the positions of upper limit and lower limit) of the flap for individual flap can be set.					
	Anti draft setting		When the panel with the anti draft function is assembled, select to Enable or Disable the anti draft setting for each					
		ti-draft function is assembled.	operation mode and for each blow outlet.					
ŀ	Timer settings	Set On timer by hour	The period of time to start operation after stopping can be set.					
	g-		• The period of set time can be set within range of 1 hour-12 houres (1 hr interval).	$\triangle$	-			
			The operation mode, set temp. and fan speed at starting operation can be set.	1				
		Set Off timer by hour	The period of time to stop operation after starting can be set.	0	0			
		-	The period of set time can be set within range of 1 hour-12 houres (1hr interval).					
		Set On timer by clock	The clock time to start operation can be set.	I – –				
			• The set clock time can be set by 5 minutes interval.		0			
			<ul> <li>[Once (one time only)] or [Everyday] operation can be switched.</li> <li>The operation mode, set temp and fan speed at starting operation can be set.</li> </ul>					
		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.	0				
			• [Once (one time only)] or [Everyday] operation can be switched.		`			
		Confirmation of timer settings	Status of timer settings can be seen.	0				
	Favorite setting	Communication of times settings	Set the operation mode, setting temperature, air flow capacity and air flow direction for the choice setting operations.		-			
	[Administrator password]		Set them for the Favorite set 1 and the Favorite set 2 respectively.	0				
	Weekly timer		On timer and Off timer on weekly basis can be set.		-			
			8-operation patterns per day can be set at a maximum.	1				
			The setting clock time can be set by 5 minutes interval.	0				
			Holiday setting is available.	1				
			The operation mode, set temp and fan speed at starting operation can be set.					
	Home leave mode		When leaving home for a long period like a vaction leave, the unit can be operated to maintain the room temperature not to be hotter in summer or not to be colder in winter.	1				
	[Administrator password]		<ul> <li>The judgment to switch the operation mode (Cooling ⇔ Heating) is done by the both factors of the set temp. and outdoor</li> </ul>	0				
[/ tuminstrator password			air temp.					
			The set temp. and fan speed can be set.					
	External Ventilation		On/Off operation of the external ventilator can be done.					
When the ventilator is combined.		pined.	It is necessary to set from [Menu] $\Rightarrow$ [Service setting] $\Rightarrow$ [R/C function setting] $\Rightarrow$ [Ventilation setting].					
			<ul> <li>If the "Independent" is selected for the ventilation setting, the ventilator can be operated or stopped.</li> </ul>					
	Select the language		Select the language to display on the remote control.					
			<ul> <li>Select from English, German, French, Spanish, Italian, Dutch, Turkish, Portuguese, Russian, Polish, Japanese and Chinese.</li> </ul>					
	T 1 1 1				-			
	Look, look		Indoor temperature, outdoor temperature and power consumption are indicated.	$\triangle$				
	Power consumption indicat	ion	The power consumption of today, this week and this year is indicated by a chart. It is possible to compare with	1				
			yesterday, last week and last year.	0				
			<ul> <li>This item may not indicate depending on indoor and outdoor units which are combined.</li> </ul>	L				
	ergy-saving setting		Administrator password	L				
	Sleep timer		To prevent the timer from keeping ON, set hours to stop operation automatically with this timer.	0				
			<ul> <li>The selectable range of setting time is from 30 to 240 minutes. (10 minutes interval)</li> </ul>					
	Deale and the		When setting is "Enable", this timer will activate whenever the ON timer is set.		-			
	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 %).	1				
			• 4-operation patterns per day can be set at maximum.	-				
			<ul> <li>The setting time can be changed by 5-minutes interval.</li> </ul>	0				
			• The selectable range of capacity limit % (Peak-cut %) is from 0% to 40-80% (20% interval).	1				
			Holiday setting is available.	L				
	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.]	I –				
			• The setting can be done in cooling and heating mode respectively.	0				
			<ul> <li>Selectable range of the set time is from 20 min. to 120 min. (10 min. interval).</li> <li>Set the [Set back temp.] by 1°C interval.</li> </ul>	-				
1	Infrared sensor control (Mo	tion sensor control)	When the infrared sensor (motion sensor) is used, it is necessary to set Enable or Disable for the "Power control"		-			
	· · · · · · · · · · · · · · · · · · ·	frared sensor (motion sensor) is	and the "Auto-off".	0				
	assembled.	inarea sensor (motion sensor) is	··········					
	ter				-			
	Filter sign reset	Filter sign reset	The filter sign can be reset.					
		Setting next cleaning date	The next cleaning date can be set.					
;	er setting		· · · · · · · · · · · · · · · · · · ·		1			
1	Internal settings	Clock setting	The current date and time can be set or revised.					
	memai settings		<ul> <li>If a power failure continues no longer than 80 hours, the clock continues to tick by the built-in power source.</li> </ul>	0				
		Date and time display	[Display] or [Hide] the date and/or time can be set, and [12H] or [24H] display can be set.	0				
		Summer time	When select [Enable], the +1 hour adjustment of current time can be set. When select [Disable], the [Summer time]					
			adjustment can be reset.	0				
		Contrast	The contrast of LCD can be adjusted higher or lower.	0				
				Ō				
		Backlight	Switching on/off a light can be set and period of the lighting time can be set within the range of 5sec-90 sec (5sec interval).					
			Switching on/off a light can be set and period of the lighting time can be set within the range of 5sec-90 sec (5sec interval). It can set with or without [Control sound (beep sound)] at touch panel.	0				

Setting & di		Description				
2 Administrator settings [Administrator password]	Permission/Prohibition setting	Permission/Prohibition setting of operation can be set. [On/Off] [Change set temp] [Change operation mode] [Change flap direction] [Change fan speed] [High power operation] [Energy-saving operation] [Timer] Request for administrator can be set. [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 interal.	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 R/C display setting	Ways of displaying setting temperatures can be selected. Register [Room name] [Name of I/U]	0	C		
	K/C display setting	Register [Room name] frame of 170] 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.	00			
	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	_		
ervice setting						
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	0		
	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. • It can be set for each indoor unit individually.		-		
	Change auto-address	The set address of each indoor unit decided by auto-address setting method can be changed to any other address.		-		
	Address setting of main IU	Main indoor unit address can be set. • 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	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 sensor (motion sensor) is assembled.	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	-		
	Grill lifting operation	Set enable for automatic lifting panel operation. When automatic lifting panel is assembled.				
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	2		
	R/C sensor adjustment	The offset value of [R/C sensor] sensing temp. can be set respectively in heating and cooling.	0	2		
	Operation mode °C / °F	Enable or Disable can be set for each operation mode. Set the unit for setting temperatures.	0	4		
	C/ r	• °C or °F can be selected.	0	(		
	Fan speed	Fan speeds can be selected.	0	-		
	External input	When two or more indoor units are connected to one unit of remote control, the range to apply CnT inputs can be set.	0			
	Upper/lower flap control Left/right flap control	[Stop at fixed position] or [Stop at any position] can be selected for the upper and lower louvers. [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.	Õ	(		
	Auto-restart	The operation control method after recovery of power failure happened during operation can be set.	0	(		
	Auto temp. setting Auto fan speed	[Enable] or [Disable] of [Auto temp. setting] can be selected.	0	-		
U settings	Fan speed setting	[Enable] or [Disable] of [Auto fan speed] can be selected. The fan speed for indoor units can be set.	0			
	Filter sign	The setting of filter sign display timer can be done from following patterns.		-		
Service password]	External input 1	The connect of control by external input 1 can be changed.	Δ	4		
	External input 1 signal	The type of external input 1 signal can be changed.	0	(		
	External input 2 External input 2 signal	The connect of control by external input 2 can be changed. The type of external input 2 signal can be changed.				
	Heating thermo-OFF temp. adjustment Return temperature 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 in cooling thermo-OFF		^			
	Anti-frost temp.	Fan control, when the heating thermostat is turned OFF, can be changed. Judgment temperature for the anti-frost control during cooling can be changed.	Δ			
	Anti-frost control	When the anti-frost control of indoor unit in cooling is activated, the fan speed can be changed.				
	Drain pump operation Keep fan operating after cooling is stopped	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.				
	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 Control pressure adjust	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. When only the OA processing units are operated, control pressure value can be changed.				
	Auto operation mode Thermo. rule setting	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 IU overload alarm	Auto switching range for the auto fan speed control can be set. 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	0	_		
		output (CnT-5).				

Setting & display item		em	Description	RC-EX3	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	_
	Opera	ation data	The [Operation data] for indoor unit and outdoor unit can be displayed.	0	0
		display rror history	The error history can be displayed.		
	D	isplay anomaly data	The operation data just before the latest error stop can be displayed.	0	$\triangle$
	E	rase anomaly data	Anomaly operation data can be erased.	1	
	R	eset periodical check	The timer for the periodical check can be reset.	]	
	Savin	ng 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	-
	Speci	ial settings	[Erase IU address] [CPU reset] [Restore of default setting] [Touch panel calibration]	0	$\triangle$
	Indoc	or unit capacity display	Address No. and capacities of indoor units connected to the remote control are displayed.	0	-
8.Contact company	8.Contact company		Shows registered [Contact company] and [Contact phone].	0	-
9.Inspection					
Confirmation of Inspection	n		This is displayed when any error occurs.	0	-
10.PC connection					
USB connection			Weekly timer setting and etc., can be set from PC.	0	-

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

#### RKZ012A099

Wiring inlet (top or back)

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



- •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.

3 Fix the cable with the

10

cable clamp

connection cable

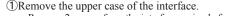
the upper

case

(2)Connect the indoor unit's

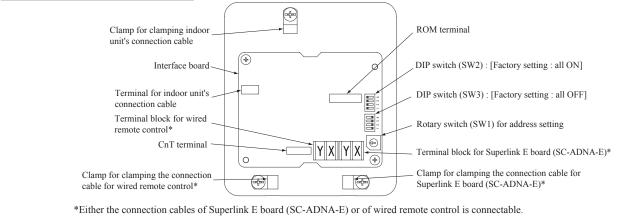
- Use the original accessories and specified components for installation.
- If the parts other than those prescribed by us are used, it may cause an electric shock, fire and sersonal injury.

## Connecting the indoor unit's connection cable to the interface

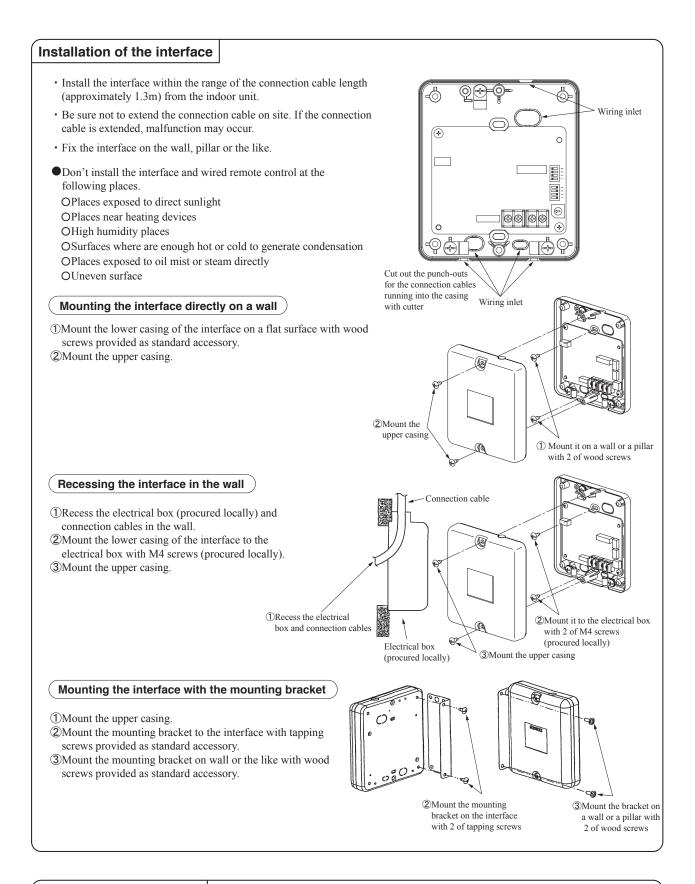


- Remove 2 screws from the interface casing before removal of upper casing.
- 2 Connect the indoor unit's connection cable to the interface.
- Connect the connector of the indoor unit connection cable to the connector on the interface's circuit board.
- (3) Fix the indoor unit's connection cable with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

#### Name of each part of the interface

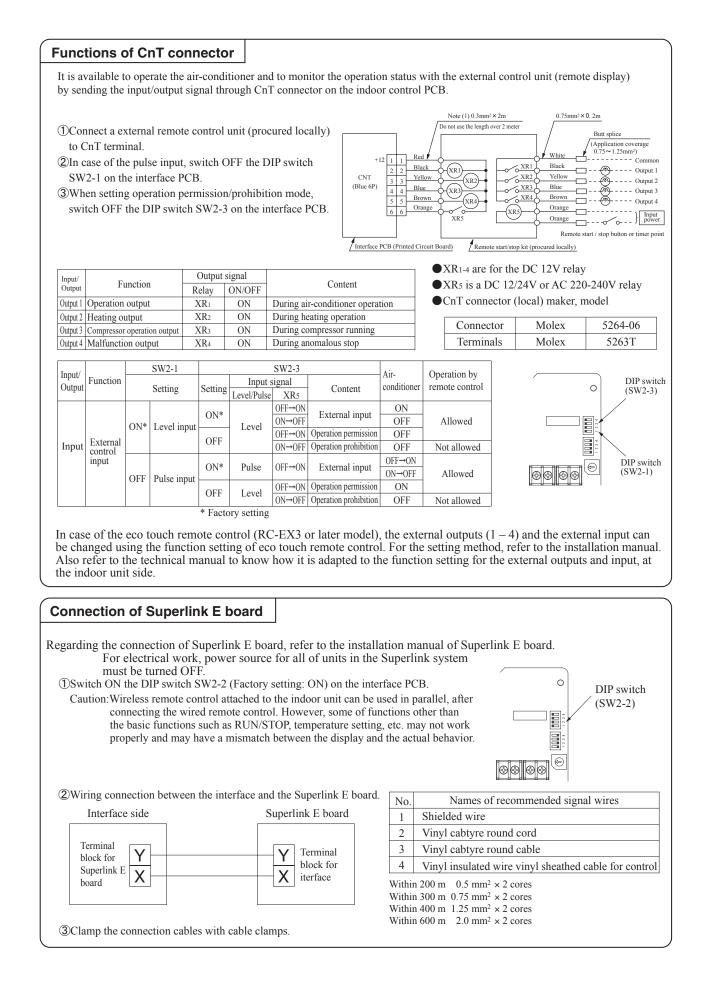


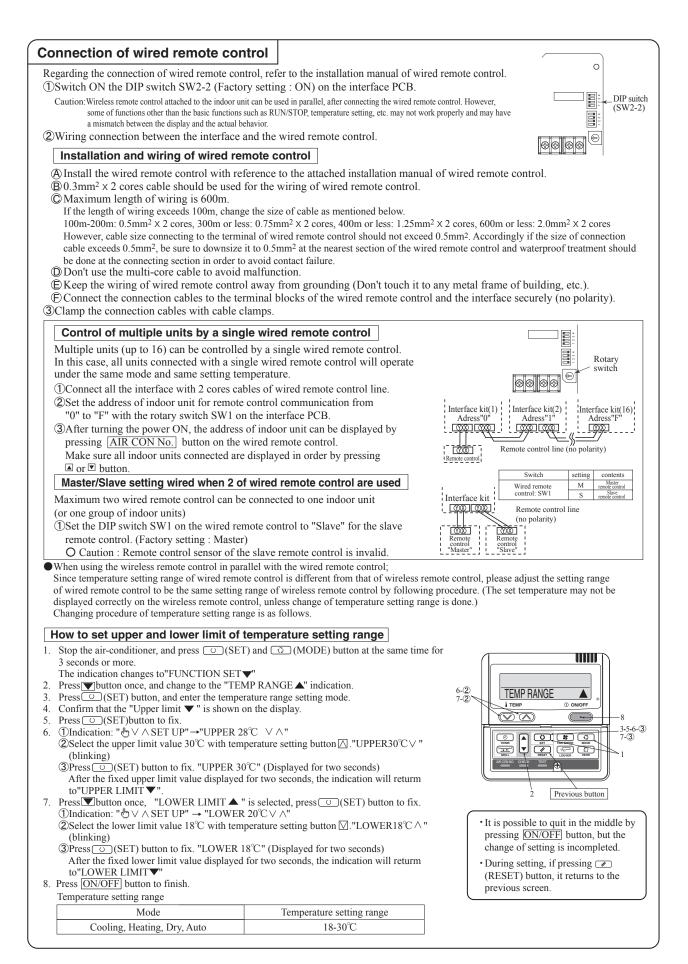
Switch	Setting	Function	Switch	Setting	Function	
SW2-1	ON**	CnT level input	SW2-3	ON**	External input (CnT input)	
5 W 2-1	OFF	CnT pulse input	5 W 2-5	OFF	Operation permission/prohibition (CnT input)	
SW2-2	ON**	Wired remote control : Enable	SW2-4	ON**	Annual cooling : Enable***	
5 W 2=2	OFF	Wired remote control : Disable	5 W 2=4	OFF	Annual cooling : Disable***	
** Factory	setting		*** Indoor fan control at low outdoor air temperature in cooling			



#### Installation check items

- □ Are the connection cables connected securely to the terminal blocks and connectors?
- $\Box$  Are the thickness and length of the connection cables conformed with the standard?





## (3) Superlink E board (SC-ADNA-E)

• Read and understand the instructions completely before starting installation. Refer to the instructions for both indoor and outdoor units.

### Safety precautions

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

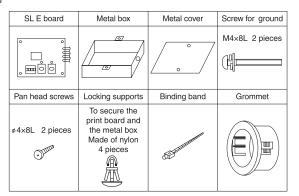
#### 

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

#### 1 Application

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

#### 2 Accessories



### 3 Function

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

#### 4 Control switching

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

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

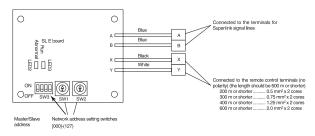
#### **CAUTION**

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

#### 5 Connection outline

Note for setting the address

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



(\*1) Whether the actual link is either the new Superlink or the previous Superlink depends on the models of the connected outdoor and indoor units. Consult the agent or the dealer.

#### Signal line specification

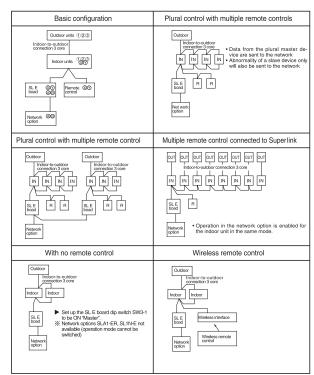
Communication method	Previous Superlink	New Superlink
Line type	MVVS	MVVS
Line diameter	0.75 - 1.25mm²	0.75/1.25mm <sup>2</sup>
Signal line (total length)	up to 1000m	up to 1500/1000m (*2)
Signal line (maximum length)	up to 1000m	up to 1000m

(\*2) Up to 1500 m for 0.75 mm<sup>2</sup>, and up to 1000 m for 1.25 mm<sup>2</sup>. Do not use 2.0 mm<sup>2</sup>. It may cause an error.

(\*3) Connect grounding on both ends of the shielding wire. For the grounding method, refer to the section "6 Installation".

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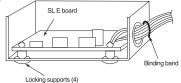
- Set the Superlink network address with SW1 (tens place), SW2 (ones place), and SW3 (hundreds place).
- (2) Set the SL E board SW3-1 to be ON (Master) when using this without any remote control (no wired remote control nor wireless remote control).
- (3) Set up the plural master/slave device using the dip switches on the indoor unit board.
- (4) Set up the remote control master/slave device using the slide switch on the remote control board.
- (5) Set up "0" to "F" using the address rotary switch on the indoor unit board when controlling the indoor unit with the multiple remote control.



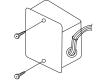
#### 6 Installation

- 1. When using the metal box (mounted on the indoor unit / mounted on the back of the remote control):
  - Mount the SL E board in the metal box using the locking supports.
     Wiring should go through the provided grommet since then through the
  - wiring to the hole on the Metal box. Secure the grommet after inserting the grommet into the Metal box as

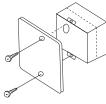
secure the grommet after inserting the grommet into the Metal box as shown in below figure, then tie the wiring at the outlet of the unit using a binding band.



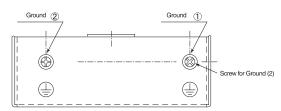
When installed outside the indoor unit, put the metal cover on.



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

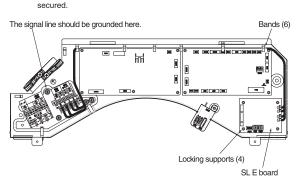


Connect grounding. Connect grounding for the power line to Ground , and grounding for the signal line to Ground or to the Ground on the indoor unit control box.



When connecting to the indoor unit control box (ceiling-concealed type and FDT type only):

Mount the SL E board in the control box using the locking supports.
 Remove 6 bands from the box and put the wiring through the bands to be



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

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

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

#### Location of installation

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

#### 7 Indicator display

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

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

## **13. TECHNICAL INFORMATION**

### Model SRK20ZSX-W

Information to identify the model(s) to			0:	If function includes heating: Indicate the heating season the				
Indoor unit model name Outdoor unit model name	SRK20ZSX SRC20ZSX			information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.				
	38620237			Ineating season at a time. Include at lea	ast the neating sea	SOIT 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	Delasiona	2.00	kW	Seasonal efficiency and energy efficien	•	40.00		
cooling heating / Average	Pdesignc Pdesignh	2.00 2.80	kW	cooling heating / Average	SEER SCOP/A	10.00 A+++ 5.20 A+++		
heating / Warmer	Pdesignh	3.70	kW	heating / Warmer	SCOP/W	6.70 A+++		
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C			
	r doolgini			riodang / condor	000170	unit		
Declared capacity at outdoor tempe	rature Tdesignh		_	Back up heating capacity at outdoor te	mperature Tdesigr	۱ <u>h</u>		
heating / Average (-10°C)	Pdh	2.80	kW	heating / Average (-10°C)	elbu	<b>0</b> kW		
heating / Warmer (2°C)	Pdh	3.70	kW	heating / Warmer (2°C)	elbu	<b>0</b> kW		
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	- kW		
Declared conscitution cooling at ind	aar tamparatura 07/1/	0)°C and		Declared energy officiency ratio at ind	aar tamparatura 0	7(10)°C and		
Declared capacity for cooling, at ind outdoor temperature Tj	oor temperature 27(1)	9) C and		Declared energy efficiency ratio, at ind outdoor temperature Tj	oor temperature 27	(19) C and		
Tj=35°C	Pdc	2.00	kW	Tj=35°C	EERd	6.45 -		
Tj=30°C	Pdc	1.47	kW	Tj=30°C	EERd	9.29 -		
Tj=25℃	Pdc	1.25	kW	Tj=25°C	EERd	13.90 -		
Tj=20°C	Pdc	1.36	kW	Tj=20°C	EERd	20.70 -		
			•					
Declared capacity for heating / Aver				Declared coefficient of performance / A		indoor		
temperature 20°C and outdoor temp			٦	temperature 20°C and outdoor tempera	,			
Tj=-7°C	Pdh	2.40	kW	Tj=-7°C	COPd	3.20 -		
Tj=2°C T∺ 7°C	Pdh	1.48	kW	Tj=2°C	COPd	5.30 -		
Tj=7°C Tj=12°C	Pdh Pdh	0.96	kW kW	Tj=7℃ Tj=12℃	COPd COPd	6.50 - 8.28 -		
Tj=bivalent temperature	Pdh	2.80	kW	Tj=bivalent temperature	COPd	2.79 -		
Tj=operating limit	Pdh	2.00	kW	Tj=operating limit	COPd	2.33 -		
	, an			ij oporazing mini	0014			
Declared capacity for heating / Warr	mer season, at indoor			Declared coefficient of performance / V	Varmer season, at	indoor		
temperature 20°C and outdoor temp	erature Tj		-	temperature 20°C and outdoor tempera	ature Tj			
Tj=2°C	Pdh	3.70	kW	Tj=2°C	COPd	3.40 -		
Tj=7°C	Pdh	2.40	kW	Tj=7°C	COPd	6.12 -		
Tj=12°C	Pdh	1.10	kW	Tj=12°C	COPd	8.21 -		
Tj=bivalent temperature	Pdh	3.70	kW	Tj=bivalent temperature	COPd	3.40 -		
Tj=operating limit	Pdh	2.12	kW	Tj=operating limit	COPd	2.33 -		
Declared capacity for heating / Cold	er season at indoor			Declared coefficient of performance / C	older season at ir	adoor		
temperature 20°C and outdoor temp				temperature 20°C and outdoor temperat				
Tj=-7℃	Pdh	-	kW	Tj=-7℃	COPd			
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd			
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd			
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd			
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd			
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd			
Tj=-15℃	Pdh	-	kW	Tj=-15℃	COPd			
Bivalent temperature				Operating limit temperature				
heating / Average	Tbiv	-10	°C	heating / Average	Tol	<b>-20</b> °C		
heating / Warmer	Tbiv	2	°C	heating / Warmer	Tol	-20 °C		
heating / Colder	Tbiv	-	°Č	heating / Colder	Tol	- °C		
			·			<u>.                                    </u>		
Cycling interval capacity		·	_	Cycling interval efficiency				
for cooling	Pcycc	-	kW	for cooling	EERcyc			
for heating	Pcych	-	kW	for heating	COPcyc			
Degradation coefficient	Cdc	0.25	٦	Degradation coefficient heating	Cdh	0.25 -		
cooling	Cuc	0.25	-	neating	Cull	0.25 -		
Electric power input in power modes	other than 'active mo	de'		Annual electricity consumption				
off mode	Poff	4	W	cooling	Qce	70 kWh/a		
standby mode	Psb	4	w	heating / Average	Qhe	754 kWh/a		
thermostat-off mode	Pto	11	W	heating / Warmer	Qhe	774 kWh/a		
crankcase heater mode	Pck	0	W	heating / colder	Qhe	- kWh/a		
Capacity control(indicate one of thre	e options)			Other items				
				Sound power level(indoor)	Lwa	53 dB(A)		
fixed	No			Sound power level(outdoor)	Lwa GWP	56 dB(A)		
fixed staged	No No			Global warming potential Rated air flow(indoor)	GWP -	675 kgCO2eq. 678 m3/h		
variable	Yes			Rated air flow(outdoor)	-	1860 m3/h		
	100							
Contact details for obtaining	Name and	address of	the manufa	cturer or of its authorised representative.				
more information	/litsubishi Heavy Indus	stries Air-C	onditioning I	Europe, Ltd.				
	The Square, Stockle	y Park, Ux	bridge, Midd	lesex, UB11 1ET				
l l	Jnited Kingdom							

### Model SRK25ZSX-W

Information to identify the model(s) to which		lates to:	If function includes heating: Indicate the heati			
Indoor unit model name	SRK25ZSX-W		information relates to. Indicated values should			
Outdoor unit model name	SRC25ZSX-W		heating season at a time. Include at least the	neating sea	ison Average	э.
Function(indicate if present)			Average(mandatory)	Yes		
cooling	Yes		Warmer(if designated)	Yes		
heating	Yes		Colder(if designated)	No		
		J				
Item	symbol valu	ie unit	Item	symbol	value	class
Design load			Seasonal efficiency and energy efficiency class			
cooling	° –	2.50 kW	cooling	SEER	10.30	A+++
heating / Average	° –	3.00 kW	heating / Average	SCOP/A	5.20	A+++
heating / Warmer	° –	4.20 kW	heating / Warmer	SCOP/W	6.60	A+++
heating / Colder	Pdesignh	- kW	heating / Colder	SCOP/C	-	- unit
Declared capacity at outdoor temperature To	lesianh		Back up heating capacity at outdoor temperat	ture Tdesiar		unit
heating / Average (-10°C)		3.00 kW	heating / Average (-10°C)	elbu		kW
heating / Warmer (2°C)	Pdh 4	4.20 kW	heating / Warmer (2°C)	elbu	0	kW
heating / Colder (-22°C)	Pdh	- kW	heating / Colder (-22°C)	elbu	-	kW
Declared capacity for cooling, at indoor temp	erature 27(19)°C	and	Declared energy efficiency ratio, at indoor ten	nperature 27	7(19)°C and	
outdoor temperature Tj		50 1000	outdoor temperature Tj		5.00	
Tj=35℃		2.50 kW 1.84 kW	Tj=35℃	EERd EERd	5.68 8.75	-
Tj=30°C Tj=25°C		1.04 KW	Tj=30°C Tj=25°C	EERd	0.75	-
Tj=20°C		1.40 kW	Tj=20°C	EERd	20.40	_
1 20 0	1 40		1 200	LLING	20.40	
Declared capacity for heating / Average seas	son, at indoor		Declared coefficient of performance / Average	e season, at	indoor	
temperature 20°C and outdoor temperature			temperature 20°C and outdoor temperature T	j		
Tj=-7°C		2 <b>.61</b> kW	Tj=-7°C	COPd	3.15	-
Tj=2°C		1.59 kW	Tj=2°C	COPd	5.30	-
Tj=7°C		1.03 kW	Tj=7°C	COPd	6.58	-
Tj=12°C		0.96 kW	Tj=12°C	COPd	8.30	-
Tj=bivalent temperature		3.00 kW	Tj=bivalent temperature	COPd	2.69	-
Tj=operating limit	Pdh 2	2.40 kW	Tj=operating limit	COPd	2.30	-
Declared capacity for heating / Warmer seas	on at indoor		Declared coefficient of performance / Warmen	r season at	indoor	
temperature 20°C and outdoor temperature			temperature 20°C and outdoor temperature T			
Tj=2℃		<b>1.20</b> kW	Tj=2℃	COPd	3.30	-
Tj=7°C	Pdh 2	2.70 kW	Tj=7°C	COPd	5.90	-
Tj=12°C	Pdh 1	1.20 kW	Tj=12°C	COPd	8.27	-
Tj=bivalent temperature		<b>4.20</b> kW	Tj=bivalent temperature	COPd	3.30	-
Tj=operating limit	Pdh 2	2.40 kW	Tj=operating limit	COPd	2.30	-
Deslared conseits for besting / Colder coses	n at indeer	]	Declared coefficient of performance / Colder	accor at is	door	
Declared capacity for heating / Colder seaso temperature 20°C and outdoor temperature			Declared coefficient of performance / Colders temperature 20°C and outdoor temperature T		10001	
Tj=-7°C	Pdh	- kW	Tj=-7°C	COPd		_
Tj=2°C	Pdh	- kW	Tj=2°C	COPd	-	_
Tj=7°C	Pdh	- kW	Tj=7°C	COPd	-	-
Tj=12℃	Pdh	- kW	Tj=12℃	COPd	-	-
Tj=bivalent temperature	Pdh	- kW	Tj=bivalent temperature	COPd	-	-
Tj=operating limit	Pdh	- kW	Tj=operating limit	COPd	-	-
Tj=-15°C	Pdh	- kW	Tj=-15℃	COPd	-	-
			<b>•</b> • • • • •			
Bivalent temperature heating / Average	Tbiv	-10 °C	Operating limit temperature heating / Average	Tol	-20	°C
heating / Warmer	Tbiv	-10 C 2 ℃	heating / Warmer	Tol	-20	°C
heating / Colder	Tbiv	- °C	heating / Colder	Tol	-20	°C
			, ooldol		1	-
Cycling interval capacity			Cycling interval efficiency			
for cooling	Рсусс	- kW	for cooling	EERcyc	-	-
for heating	Pcych	- kW	for heating	COPcyc	-	-
Degradation coefficient			Degradation coefficient	0.11		
cooling	Cdc (	).25 -	heating	Cdh	0.25	-
Electric power input in power modes other th	an 'active mode'	]	Annual electricity consumption			
off mode	Poff	<b>4</b> W	cooling	Qce	85	kWh/a
standby mode	Psb	4 W	heating / Average	Qhe	808	kWh/a
thermostat-off mode	Pto	11 W	heating / Warmer	Qhe	891	kWh/a
crankcase heater mode	Pck	<b>0</b> W	heating / colder	Qhe	-	kWh/a
Capacity control(indicate one of three option	s)		Other items	Luce	55	
			Sound power level(indoor) Sound power level(outdoor)	Lwa Lwa	55 57	dB(A) dB(A)
fixed	No		Global warming potential	Lwa GWP	675	aB(A) kgCO2eq.
staged	No		Rated air flow(indoor)	-	732	m3/h
variable	Yes		Rated air flow(outdoor)	-	1860	m3/h
						-
Contact details for obtaining			turer or of its authorised representative.			
		Air-Conditioning E				
		rk, Uxbridge, Middle	esex, UB11 1E1			
United Ki	iguoin					

#### Model SRK35ZSX-W

Information to identify the model(s) to which Indoor unit model name	the information SRK35ZS2		):	If function includes heating: Indicate the heati information relates to. Indicated values should			
Outdoor unit model name	SRC35ZS			heating season at a time. Include at least the			e'.
	1						
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	oymbol	Value	unit	Seasonal efficiency and energy efficiency cla	,	Value	01000
cooling	Pdesignc	3.50	kW	cooling	SEER	9.50	A+++
heating / Average	Pdesignh	3.40	kW	heating / Average	SCOP/A	5.10	A+++
heating / Warmer	Pdesignh	4.70	kW	heating / Warmer	SCOP/W	6.50	A+++
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C	-	-
Declared capacity at outdoor temperature 1	Idesignh			Back up heating capacity at outdoor temperat	turo Tdosiar	b	unit
heating / Average (-10°C)	Pdh	3.40	kW	heating / Average (-10°C)	elbu	0	kW
heating / Warmer (2°C)	Pdh	4.70	kW	heating / Warmer (2°C)	elbu	0	kW
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	-	kW
Declared capacity for cooling, at indoor terr	perature 27(19	9)°C and		Declared energy efficiency ratio, at indoor ten	nperature 27	7(19)°C and	
outdoor temperature Tj	Dde	2.50	LAM .	outdoor temperature Tj		4 72	1
Tj=35°C Tj=30°C	Pdc Pdc	3.50 2.58	kW kW	Tj=35°C Tj=30°C	EERd EERd	4.73	-
Tj=25°C	Pdc	1.66	kW	Tj=25℃	EERd	12.43	-
Tj=20°C	Pdc	1.38	kW	Tj=20℃	EERd	19.00	-
.,				.,			
Declared capacity for heating / Average sea				Declared coefficient of performance / Average		indoor	
temperature 20°C and outdoor temperature	,			temperature 20°C and outdoor temperature T			,
Tj=-7°C	Pdh	2.95	kW	Tj=-7°C	COPd	3.10	-
Tj=2°C	Pdh	1.77	kW	Tj=2°C	COPd	5.18	-
Tj=7°C Tj=12°C	Pdh Pdh	1.20	kW kW	Tj=7℃ Tj=12℃	COPd COPd	6.45 8.10	-
Tj=bivalent temperature	Pdh	3.40	kW	Ti=bivalent temperature	COPd	2.61	
Tj=operating limit	Pdh	2.68	kW	Ti=operating limit	COPd	2.23	-
·) · · · · · · · · · · · · · · · · · ·				·) ·) ·)			
Declared capacity for heating / Warmer sea				Declared coefficient of performance / Warmer		indoor	
temperature 20°C and outdoor temperature			<b>1</b>	temperature 20°C and outdoor temperature T			1
Tj=2°C	Pdh	4.70	kW	Tj=2°C	COPd	3.10	-
Tj=7°C	Pdh Pdh	3.00	kW kW	Tj=7°C	COPd COPd	5.80 8.20	-
Tj=12°C Tj=bivalent temperature	Pdh	4.70	kW	Tj=12°C Tj=bivalent temperature	COPd	3.10	-
Tj=operating limit	Pdh	2.68	kW	Ti=operating limit	COPd	2.23	-
				.,			
Declared capacity for heating / Colder seas				Declared coefficient of performance / Colder		ndoor	
temperature 20°C and outdoor temperature			<b>1</b>	temperature 20°C and outdoor temperature T			
Tj=-7°C	Pdh	-	kW	Tj=-7°C	COPd	-	-
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	-
Tj=7°C Tj=12°C	Pdh Pdh	-	kW kW	Tj=7℃ Tj=12℃	COPd COPd	-	-
Tj=bivalent temperature	Pdh		kW	Tj=bivalent temperature	COPd	-	_
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-
Tj=-15℃	Pdh	-	kW	Tj=-15°C	COPd	-	-
Bivalent temperature		10	<b>1</b> 00	Operating limit temperature	<b>T</b> .		0.0
heating / Average	Tbiv	-10	°C °C	heating / Average	Tol Tol	-20	°C °C
heating / Warmer heating / Colder	Tbiv Tbiv	2	ວ° ວ	heating / Warmer heating / Colder	Tol	-20	ວ° ວ
			5	including / Colder	101		
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pcycc	-	kW	for cooling	EERcyc	-	-
for heating	Pcych	-	kW	for heating	COPcyc	-	-
Degradation coefficient cooling	Cdc	0.25	1_	Degradation coefficient heating	Cdh	0.25	1_
cooling	Ouc	0.20	-	licating	Oun	0.20	-
Electric power input in power modes other t	than 'active mo	de'		Annual electricity consumption			_
off mode	Poff	4	W	cooling	Qce	129	kWh/a
standby mode	Psb	4	W	heating / Average	Qhe	934	kWh/a
thermostat-off mode	Pto	11	W	heating / Warmer	Qhe	1013	kWh/a
crankcase heater mode	Pck	0	W	heating / colder	Qhe	-	kWh/a
Capacity control(indicate one of three optio	ns)			Other items			
	-1			Sound power level(indoor)	Lwa	58	dB(A)
				Sound power level(outdoor)	Lwa	61	dB(A)
fixed	No			Global warming potential	GWP	675	kgCO2eq.
staged	No			Rated air flow(indoor)	-	786	m3/h
variable	Yes			Rated air flow(outdoor)	-	2160	m3/h
Contact datails for obtaining	Nome and	addroop of t	the manufa-	turer or of its authorized representative			
Contact details for obtaining more information Mitsubis	Name and hi Heavy Indus			turer or of its authorised representative.			
				esex, UB11 1ET			
United K			÷				

### Model SRK50ZSX-W

Information to identify the model(s) to wh Indoor unit model name	ich the informati		If function includes heating: Indicate the hea information relates to. Indicated values sho		
Outdoor unit model name	SRC50ZSX		heating season at a time. Include at least th		
				o nouting of	abon Morage I
Function(indicate if present)			Average(mandatory)	Yes	
cooling	Yes		Warmer(if designated)	Yes	
heating	Yes		Colder(if designated)	No	
Item	symbol	value unit	Item	symbol	value class
Design load	Symbol	value unit	Seasonal efficiency and energy efficiency cl		Value Class
cooling	Pdesignc	5.00 kW	cooling	SEER	8.30 A++
heating / Average	Pdesignh	4.50 kW	heating / Average	SCOP/A	4.70 A++
heating / Warmer	Pdesignh	6.00 kW	heating / Warmer	SCOP/W	5.90 A+++
heating / Colder	Pdesignh	- kW	heating / Colder	SCOP/C	
Declared capacity at outdoor temperature	a Tdaaignh		Back up heating capacity at outdoor tempera	aturo Tdooic	unit
heating / Average (-10°C)	Pdh	4.50 kW	heating / Average (-10°C)	elbu	0 kW
heating / Warmer (2°C)	Pdh	6.00 kW	heating / Warmer (2°C)	elbu	0 kW
heating / Colder (-22°C)	Pdh	- kW	heating / Colder (-22°C)	elbu	- kW
Declared capacity for cooling, at indoor t	temperature 27(1	19)°C and	Declared energy efficiency ratio, at indoor to	emperature	27(19)°C and
outdoor temperature Tj Tj=35°C	Pdc	5.00 kW	outdoor temperature Tj Tj=35°C	EERd	4.10 -
Tj=30°C	Pdc	3.70 kW	Tj=30℃	EERd	5.90 -
Tj=25℃	Pdc	2.40 kW	Tj=25℃	EERd	9.90 -
Tj=20°C	Pdc	1.50 kW	Tj=20°C	EERd	18.20 -
Declared capacity for heating / Average s		r	Declared coefficient of performance / Average	-	at indoor
temperature 20°C and outdoor temperatu	· ·	2.00	temperature 20°C and outdoor temperature	•	2 20
Tj=-7°C Tj=2°C	Pdh Pdh	3.98 kW 2.42 kW	Tj=-7℃ Tj=2℃	COPd COPd	3.30 - 4.64 -
Tj=7°C	Pdh	1.56 kW	Tj=2°C	COPd	5.64 -
Tj=12°C	Pdh	1.06 kW	Ti=12°C	COPd	7.20 -
Tj=bivalent temperature	Pdh	4.50 kW	Tj=bivalent temperature	COPd	2.64 -
Tj=operating limit	Pdh	3.40 kW	Tj=operating limit	COPd	2.20 -
Declared capacity for heating / Warmer s			Declared coefficient of performance / Warme		it indoor
temperature 20°C and outdoor temperatu Tj=2°C	Pdh	6.00 kW	temperature 20°C and outdoor temperature Ti=2°C	COPd	3.01 -
Tj=7°C	Pdh	3.90 kW	Tj=2°C	COPd	5.35 -
Tj=12°C	Pdh	1.70 kW	Ti=12°C	COPd	7.20 -
Tj=bivalent temperature	Pdh	6.00 kW	Tj=bivalent temperature	COPd	3.01 -
Tj=operating limit	Pdh	3.40 kW	Tj=operating limit	COPd	2.20 -
Declared capacity for heating / Colder se			Declared coefficient of performance / Colder		Indoor
temperature 20°C and outdoor temperatu Tj=-7°C	Pdh	- kW	temperature 20°C and outdoor temperature Ti=-7°C	COPd	<b>-</b>
Tj=2℃	Pdh	- kW	Tj=2°C	COPd	
Tj=7℃	Pdh	- kW	Tj=7℃	COPd	
Tj=12℃	Pdh	- kW	Tj=12°C	COPd	
Tj=bivalent temperature	Pdh	- kW	Tj=bivalent temperature	COPd	
Tj=operating limit	Pdh	- kW	Tj=operating limit	COPd	<u> </u>
Tj=-15°C	Pdh	- kW	Tj=-15℃	COPd	
Bivalent temperature			Operating limit temperature		
heating / Average	Tbiv	-10 °C	heating / Average	Tol	-20 °C
heating / Warmer	Tbiv	2 °C	heating / Warmer	Tol	-20 °C
heating / Colder	Tbiv	- °C	heating / Colder	Tol	- °C
Quality or instances 1			Quality internet . W. i		
Cycling interval capacity for cooling	Pcycc	- kW	Cycling interval efficiency for cooling	EERcyc	<b></b>
for heating	Pcych	- kW	for heating	COPcyc	
	1 696.1		loi riodalig	00.00	<u> </u>
Degradation coefficient			Degradation coefficient		
cooling	Cdc	0.25 -	heating	Cdh	0.25 -
Electric power input in power modes othe off mode	er than 'active m Poff	4 W	Annual electricity consumption cooling	Qce	<b>211</b> kWh/a
standby mode	Psb	4 W	heating / Average	Qhe	1341 kWh/a
thermostat-off mode	Pto	12 W	heating / Warmer	Qhe	1425 kWh/a
crankcase heater mode	Pck	0 W	heating / colder	Qhe	- kWh/a
					· · ·
Capacity control(indicate one of three op	tions)		Other items	. –	·=···
			Sound power level(indoor)	Lwa	59 dB(A)
fixed	No		Sound power level(outdoor)	Lwa	63 dB(A)
fixed staged	No No		Global warming potential Rated air flow(indoor)	GWP	675 kgCO2eq. 858 m3/h
variable	Yes		Rated air flow(indoor)	-	2340 m3/h
					+ 1
Contact details for obtaining			acturer or of its authorised representative.		
		stries Air-Conditioning			
	Square, Stockley I Kingdom	Park, Uxbridge, Middles	Sex, UB111EI		
	Ringdom				

### Model SRK60ZSX-W

Information to identify the model(s) to which		If function includes heating: Indicate the heat	
Indoor unit model name Outdoor unit model name	SRK60ZSX-W SRC60ZSX-W	information relates to. Indicated values shou heating season at a time. Include at least the	
	1011000207-11		a maning scasor Average.
Function(indicate if present)		Average(mandatory)	Yes
cooling	Yes	Warmer(if designated)	Yes
heating	Yes	Colder(if designated)	No
Item	symbol value unit	Item	symbol value class
Design load	Symbol Value unit	Seasonal efficiency and energy efficiency cl	
cooling	Pdesignc 6.10 kW	cooling	SEER 7.80 A++
heating / Average	Pdesignh 5.20 kW	heating / Average	SCOP/A 4.70 A++
heating / Warmer	Pdesignh 6.80 kW	heating / Warmer	SCOP/W 5.80 A+++
heating / Colder	Pdesignh - kW	heating / Colder	SCOP/C
Declared capacity at outdoor temperature To	designh	Back up heating capacity at outdoor temperative	unit ature Tdesignh
heating / Average (-10°C)	Pdh <b>5.20</b> kW	heating / Average (-10°C)	elbu <b>0</b> kW
heating / Warmer (2°C)	Pdh 6.80 kW	heating / Warmer (2°C)	elbu <b>0</b> kW
heating / Colder (-22°C)	Pdh - kW	heating / Colder (-22°C)	elbu - kW
Destand as a site for a sting of indeed to re-	07(10) <sup>9</sup> 0 and		07(40) <sup>9</sup> 0 and
Declared capacity for cooling, at indoor temp outdoor temperature Tj	berature 27(19) C and	Declared energy efficiency ratio, at indoor te outdoor temperature Tj	imperature 27(19) C and
Tj=35°C	Pdc 6.10 kW	Tj=35℃	EERd 3.60 -
Tj=30°C	Pdc 4.50 kW	Tj=30°C	EERd 5.40 -
Tj=25°C	Pdc 2.90 kW	Tj=25°C	EERd 9.00 -
Tj=20°C	Pdc 1.60 kW	Tj=20°C	EERd 18.40 -
Declared capacity for heating / Average sea	son at indoor	Declared coefficient of performance / Average	ne season, at indoor
temperature 20°C and outdoor temperature		temperature 20°C and outdoor temperature	
Tj=-7°C	Pdh <b>4.70</b> kW	Tj=-7°C	COPd <b>3.10</b> -
Tj=2°C	Pdh 2.80 kW	Tj=2°C	COPd 4.65 -
Tj=7°C	Pdh <b>1.80</b> kW	Tj=7°C	COPd <b>5.86</b> -
Tj=12°C	Pdh 1.10 kW	Tj=12°C	COPd 7.13 -
Tj=bivalent temperature Ti=operating limit	Pdh <b>5.20</b> kW Pdh <b>4.00</b> kW	Tj=bivalent temperature Tj=operating limit	COPd 2.45 - COPd 2.13 -
	1 dil 4.00 ktt		2.10
Declared capacity for heating / Warmer seas	son, at indoor	Declared coefficient of performance / Warm	er season, at indoor
temperature 20°C and outdoor temperature		temperature 20°C and outdoor temperature	
Tj=2°C	Pdh 6.80 kW	Tj=2°C	COPd 2.70 -
Tj=7°C Tj=12°C	Pdh <b>4.37</b> kW Pdh <b>1.94</b> kW	Tj=7℃ Tj=12℃	COPd <u>5.16</u> - COPd <u>7.31</u> -
Tj=bivalent temperature	Pdh 6.80 kW	Tj=bivalent temperature	COPd <b>2.70</b> -
Tj=operating limit	Pdh <b>4.00</b> kW	Tj=operating limit	COPd 2.13 -
Declared capacity for heating / Colder seaso		Declared coefficient of performance / Colden	
temperature 20°C and outdoor temperature Ti=-7°C	Pdh - kW	temperature 20°C and outdoor temperature 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℃	COPd
Bivalent temperature		Operating limit temperature	
heating / Average	Tbiv <b>-10</b> °C	heating / Average	Tol <b>-20</b> °C
heating / Warmer	Tbiv 2 °C	heating / Warmer	Tol <u>-20</u> °C
heating / Colder	Tbiv - °C	heating / Colder	Tol - °C
Cycling interval capacity		Cycling interval efficiency	
for cooling	Pcycc - kW	for cooling	EERcyc
for heating	Pcych - kW	for heating	COPcyc
Degradation coefficient		Degradation coefficient	Cdh 0.25 -
cooling	Cdc 0.25 -	heating	Cdh 0.25 -
Electric power input in power modes other the	an 'active mode'	Annual electricity consumption	
off mode	Poff 4 W	cooling	Qce 274 kWh/a
standby mode	Psb <b>4</b> W	heating / Average	Qhe <b>1551</b> kWh/a
thermostat-off mode	Pto 12 W	heating / Warmer	Qhe 1643 kWh/a
crankcase heater mode	Pck 0 W	heating / colder	Qhe - kWh/a
Capacity control(indicate one of three option	s)	Other items	
	,	Sound power level(indoor)	Lwa 62 dB(A)
	r	Sound power level(outdoor)	Lwa 65 dB(A)
fixed	No	Global warming potential	GWP 675 kgCO2eq.
staged variable	No Yes	Rated air flow(indoor) Rated air flow(outdoor)	- 978 m3/h - 2490 m3/h
	163		- 2430 1113/11
Contact details for obtaining	Name and address of the manu	facturer or of its authorised representative.	
more information Mitsubish	Heavy Industries Air-Conditionir	g Europe, Ltd.	
	are, Stockley Park, Uxbridge, Mido	llesex, UB11 1ET	
United Kin	guuill		

### Model SRK20ZSX-WB

Information to identify the model(s) to whic			If function includes heating: Indicate the heating			
Indoor unit model name	SRK20ZS		information relates to. Indicated values should relate to one			
Outdoor unit model name	SRC20ZS	X-W	heating season at a time. Include at least th	le heating sea	ason 'Average	e'.
Function(indicate if present)			Average(mandatory)	Yes		
cooling	Yes		Warmer(if designated)	Yes		
heating	Yes		Colder(if designated)	No		
- Totaling						
Item	symbol	value unit	Item	symbol	value	class
Design load			Seasonal efficiency and energy efficiency c	lass		
cooling	Pdesignc	2.00 kW	cooling	SEER	10.00	A+++
heating / Average	Pdesignh	2.80 kW	heating / Average	SCOP/A	5.20	A+++
heating / Warmer	Pdesignh	3.70 kW	heating / Warmer	SCOP/W	6.70	A+++
heating / Colder	Pdesignh	- kW	heating / Colder	SCOP/C	-	-
Declared conceits at outdoor temperature	Edecianh		Deals up heating conscituted autoestampe	noturo Telesia		unit
Declared capacity at outdoor temperature heating / Average (-10°C)	Pdh	2.80 kW	Back up heating capacity at outdoor temper heating / Average (-10°C)	elbu	0	kW
heating / Warmer (2°C)	Pdh	3.70 kW	heating / Warmer (2°C)	elbu	0	kW
heating / Colder (-22°C)	Pdh	- kW	heating / Colder (-22°C)	elbu	-	kW
	1 dii			cibu	<u> </u>	
Declared capacity for cooling, at indoor ten	nperature 27(1	9)°C and	Declared energy efficiency ratio, at indoor t	emperature 2	7(19)°C and	
outdoor temperature Tj	p · · · · · · · · · · · · · · · · · · ·	-,	outdoor temperature Tj			
Tj=35℃	Pdc	2.00 kW	Tj=35℃	EERd	6.45	]-
Tj=30°C	Pdc	1.47 kW	Tj=30°C	EERd	9.29	-
Tj=25°C	Pdc	1.25 kW	Tj=25°C	EERd	13.90	-
Tj=20°C	Pdc	1.36 kW	Tj=20°C	EERd	20.70	-
Declared capacity for heating / Average se		r	Declared coefficient of performance / Avera		t indoor	
temperature 20°C and outdoor temperature		0.40	temperature 20°C and outdoor temperature			1
Tj=-7°C	Pdh	2.40 kW	Tj=-7°C	COPd	3.20	-
Tj=2°C	Pdh	1.48 kW	Tj=2°C	COPd	5.30	-
Tj=7°C	Pdh	0.96 kW	Tj=7°C	COPd	6.50	-
Tj=12°C	Pdh	0.96 kW	Tj=12°C	COPd	8.28	-
Tj=bivalent temperature	Pdh	2.80 kW	Tj=bivalent temperature	COPd	2.79	-
Tj=operating limit	Pdh	2.12 kW	Tj=operating limit	COPd	2.33	-
Declared capacity for heating / Warmer sea	anon at indea		Declared coefficient of performance / Warn		tindoor	
temperature 20°C and outdoor temperature			temperature 20°C and outdoor temperature		. 110001	
Tj=2°C	Pdh	3.70 kW	Tj=2°C	COPd	3.40	1.
Tj=7°C	Pdh	2.40 kW	Tj=7°C	COPd	6.12	-
Tj=12°C	Pdh	1.10 kW	Tj=12°C	COPd	8.21	
Tj=bivalent temperature	Pdh	3.70 kW	Tj=bivalent temperature	COPd	3.40	
Tj=operating limit	Pdh	2.12 kW	Tj=operating limit	COPd	2.33	
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Declared capacity for heating / Colder seas			Declared coefficient of performance / Colde	r season, at i	ndoor	
temperature 20°C and outdoor temperature			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°C	Pdh	- kW	Tj=-15℃	COPd	-	-
Divelant to see a seture						
Bivalent temperature heating / Average	Tbiv	-10 °c	Operating limit temperature heating / Average	Tol	-20	°C
heating / Warmer	Tbiv	2 °C	heating / Warmer	Tol	-20	°C
heating / Colder	Tbiv	C	heating / Colder	Tol	-20	°C
	1017	1 I Y	nousing / ooldor	101		
Cycling interval capacity			Cycling interval efficiency			
for cooling	Pcycc	- kW	for cooling	EERcyc	-	]-
for heating	Pcych	- kW	for heating	COPcyc	-	-
Degradation coefficient			Degradation coefficient			-
cooling	Cdc	0.25 -	heating	Cdh	0.25	-
Electric power input in newer modes -th	than lasting	ada'	Appual algorigity apparentian			
Electric power input in power modes other off mode	than 'active m Poff	4 W	Annual electricity consumption cooling	Qce	70	kWh/a
standby mode	Poli Psb	4 VV 4 W	heating / Average	Qce Qhe	70	kWh/a
thermostat-off mode	Psp Pto	11 W	heating / Warmer	Qhe	754	kWh/a
crankcase heater mode	Pto	0 W	heating / colder	Qhe	-	kWh/a
	i UN	- IV	noaling / ooldol	34110		
Capacity control(indicate one of three optic	ons)		Other items			
			Sound power level(indoor)	Lwa	53	dB(A)
			Sound power level(outdoor)	Lwa	56	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)	-	1860	m3/h
						·
Contact details for obtaining			cturer or of its authorised representative.			
		stries Air-Conditioning E				
		y Park, Uxbridge, Middle	esex, UB11 1ET			
United P	Kingdom					
1						

#### Model SRK25ZSX-WB

Information to identify the model(s) to which			If function includes heating: Indicate the heat	•	
Indoor unit model name	SRK25ZSX-WB SRC25ZSX-W		information relates to. Indicated values should		
Outdoor unit model name	3RC2923X-W		heating season at a time. Include at least the	neating sea	ason Average.
Function(indicate if present)			Average(mandatory)	Yes	
cooling	Yes		Warmer(if designated)	Yes	
heating	Yes		Colder(if designated)	No	
Item	symbol value unit		Item	symbol	value class
Design load cooling	Pdesignc 2.50 kW		Seasonal efficiency and energy efficiency cla cooling	ss SEER	10.30 A+++
heating / Average	Pdesignh 3.00 kW		heating / Average	SCOP/A	5.20 A+++
heating / Warmer	Pdesignh 4.20 kW		heating / Warmer	SCOP/W	6.60 A+++
heating / Colder	Pdesignh - kW		heating / Colder	SCOP/C	
					unit
Declared capacity at outdoor temperature To	·		Back up heating capacity at outdoor tempera	0	
heating / Average (-10°C)	Pdh 3.00 kW		heating / Average (-10°C)	elbu	0 kW
heating / Warmer (2°C) heating / Colder (-22°C)	Pdh <b>4.20</b> kW Pdh - kW		heating / Warmer (2°C) heating / Colder (-22°C)	elbu elbu	0 kW - kW
				CIDU	- KVV
Declared capacity for cooling, at indoor temp	perature 27(19)°C and		Declared energy efficiency ratio, at indoor ter	nperature 2	7(19)°C and
outdoor temperature Tj			outdoor temperature Tj		
Tj=35°C	Pdc 2.50 kW		Tj=35°C	EERd	5.68 -
Tj=30°C	Pdc 1.84 kW		Tj=30°C	EERd	8.75 -
Tj=25°C	Pdc 1.27 kW		Tj=25°C	EERd	14.10 -
Tj=20°C	Pdc 1.40 kW		Tj=20°C	EERd	20.40 -
Declared capacity for heating / Average sea	son, at indoor		Declared coefficient of performance / Averag	e season a	t indoor
temperature 20°C and outdoor temperature			temperature 20°C and outdoor temperature T		
Tj=-7°C	Pdh <b>2.61</b> kW		Tj=-7°C	COPd	3.15 -
Tj=2°C	Pdh 1.59 kW		Tj=2°C	COPd	5.30 -
Tj=7°C	Pdh <b>1.03</b> kW		Tj=7°C	COPd	6.58 -
Tj=12°C	Pdh 0.96 kW		Tj=12°C	COPd	8.30 -
Tj=bivalent temperature	Pdh 3.00 kW		Tj=bivalent temperature	COPd	2.69 -
Tj=operating limit	Pdh 2.40 kW		Tj=operating limit	COPd	2.30 -
Declared capacity for heating / Warmer seas	son at indoor		Declared coefficient of performance / Warme	r season at	tindoor
temperature 20°C and outdoor temperature			temperature 20°C and outdoor temperature T		
Tj=2°C	Pdh <b>4.20</b> kW		Tj=2℃	COPd	3.30 -
Tj=7°C	Pdh 2.70 kW		Tj=7°C	COPd	5.90 -
Tj=12°C	Pdh <b>1.20</b> kW		Tj=12°C	COPd	8.27 -
Tj=bivalent temperature	Pdh <b>4.20</b> kW		Tj=bivalent temperature	COPd	3.30 -
Tj=operating limit	Pdh 2.40 kW		Tj=operating limit	COPd	2.30 -
Declared capacity for heating / Colder seaso	n at indoor		Declared coefficient of performance / Colder	season at i	ndoor
temperature 20°C and outdoor temperature			temperature 20°C and outdoor temperature T		10001
Tj=-7℃	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 Ti=-15°C	Pdh - kW		Tj=operating limit	COPd	
IJ=-15 C	Pdh - kW		Tj=-15°C	COPd	
Bivalent temperature			Operating limit temperature		
heating / Average	Tbiv -10 °C		heating / Average	Tol	-20 °C
heating / Warmer	Tbiv 2 °C		heating / Warmer	Tol	<b>-20</b> °C
heating / Colder	Tbiv - °C		heating / Colder	Tol	- °C
Cycling interval conscitu			Cycling interval officianay		
Cycling interval capacity for cooling	Pcycc - kW		Cycling interval efficiency for cooling	EERcyc	
for heating	Poych - kW		for heating	COPcyc	
			ion notang	00.090	1 1
Degradation coefficient			Degradation coefficient		
cooling	Cdc 0.25 -		heating	Cdh	0.25 -
Electric power input in power medae ather th	an 'active mode'		Appual electricity consumption		
Electric power input in power modes other the off mode	Poff 4 W		Annual electricity consumption cooling	Qce	85 kWh/a
standby mode	Psb <b>4</b> W		heating / Average	Qhe	808 kWh/a
thermostat-off mode	Pto 11 W		heating / Warmer	Qhe	891 kWh/a
crankcase heater mode	Pck 0 W		heating / colder	Qhe	- kWh/a
Capacity control(indicate one of three option	s)		Other items	Luu-	EE JOW
			Sound power level(indoor)	Lwa	55 dB(A) 57 dB(A)
fixed	No		Sound power level(outdoor) Global warming potential	Lwa GWP	57 dB(A) 675 kgCO2eq.
staged	No	_	Rated air flow(indoor)	-	732 m3/h
variable	Yes	$\neg$	Rated air flow(outdoor)	-	1860 m3/h
	+				
Contact details for obtaining			turer or of its authorised representative.		
	i Heavy Industries Air-Condition				
5 The Sq United Ki	uare, Stockley Park, Uxbridge, M nadom	nudlê	JOCA, UDITIET		

#### Model SRK35ZSX-WB

Information to identify the model(s) to which			If function includes heating: Indicate the heat	-		
Indoor unit model name	SRK35ZSX-		information relates to. Indicated values shoul			
Outdoor unit model name	SRC35ZSX-	N	heating season at a time. Include at least the	neating sea	ison 'Average'.	
Function(indicate if present)			Average(mandatory)	Yes		
cooling	Yes		Warmer(if designated)	Yes		
heating	Yes		Colder(if designated)	No		
Item	symbol v	alue unit	Item	symbol	value cla	ass
Design load	_		Seasonal efficiency and energy efficiency cla	SS		
cooling	Pdesignc	3.50 kW	cooling	SEER		A+++
heating / Average	Pdesignh	3.40 kW	heating / Average	SCOP/A		A+++
heating / Warmer	Pdesignh	4.70 kW	heating / Warmer	SCOP/W		A+++
heating / Colder	Pdesignh	- kW	heating / Colder	SCOP/C	-	-
Declared capacity at outdoor temperature	Edesianh		Back up heating capacity at outdoor tempera	ture Tdesia	un uh	IL
heating / Average (-10°C)	Pdh	3.40 kW	heating / Average (-10°C)	elbu	0 kV	v
heating / Warmer (2°C)	Pdh	4.70 kW	heating / Warmer (2°C)	elbu	0 kV	v
heating / Colder (-22°C)	Pdh	- kW	heating / Colder (-22°C)	elbu	- kV	V
Declared capacity for cooling, at indoor terr	perature 27(19)	°C and	Declared energy efficiency ratio, at indoor ter	mperature 2	7(19)°C and	
outdoor temperature Tj	F		outdoor temperature Tj			
Tj=35℃	Pdc	3.50 kW	Tj=35℃	EERd	4.73 -	
Tj=30°C Tj=25°C	Pdc Pdc	2.58 kW 1.66 kW	Tj=30°C Tj=25°C	EERd EERd	7.29 - 12.43 -	
Tj=20°C	Pdc	1.38 kW	Tj=20°C	EERd	19.00 -	
1 20 0	1 40	1.00	1 200	LLING	10.00	
Declared capacity for heating / Average sea	ason, at indoor		Declared coefficient of performance / Averag	e season, a	indoor	
temperature 20°C and outdoor temperature			temperature 20°C and outdoor temperature T			
Tj=-7°C	Pdh	2.95 kW	Tj=-7°C	COPd	3.10 -	
Tj=2°C	Pdh	1.77 kW	Tj=2°C	COPd	5.18 -	
Tj=7°C	Pdh	1.20 kW	Tj=7°C	COPd	6.45 -	
Tj=12°C	Pdh	1.00 kW	Tj=12℃	COPd	8.10 -	
Tj=bivalent temperature	Pdh	3.40 kW	Tj=bivalent temperature	COPd	2.61 -	
Tj=operating limit	Pdh	2.68 kW	Tj=operating limit	COPd	2.23 -	
Declared capacity for heating / Warmer sea	acon at indoor		Declared coefficient of performance / Warme	r coacon at	indoor	
temperature 20°C and outdoor temperature			temperature 20°C and outdoor temperature T		IIIuuuu	
Tj=2°C	Pdh	4.70 kW	Tj=2°C	COPd	3.10 -	
Tj=7℃	Pdh	3.00 kW	Tj=7℃	COPd	5.80 -	
Tj=12°C	Pdh	1.30 kW	Tj=12°C	COPd	8.20 -	
Tj=bivalent temperature	Pdh	4.70 kW	Tj=bivalent temperature	COPd	3.10 -	
Tj=operating limit	Pdh	2.68 kW	Tj=operating limit	COPd	2.23 -	
Declared capacity for heating / Colder seas			Declared coefficient of performance / Colder		ndoor	
temperature 20°C and outdoor temperature		1444	temperature 20°C and outdoor temperature T			
Tj=-7°C Tj=2°C	Pdh Pdh	- kW - kW	Tj=-7°C Tj=2℃	COPd COPd		
Tj=7°C	Pdh	- kW	Tj=2 C 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		
-		·			•	
Bivalent temperature	_		Operating limit temperature			
heating / Average	Tbiv	-10 °C	heating / Average	Tol	-20 °C	
heating / Warmer	Tbiv	2 °C	heating / Warmer	Tol	-20 °C	
heating / Colder	Tbiv	- °C	heating / Colder	Tol	- °C	
Cycling interval 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 -	
	de sus la 12	-1 1	Assessed all advised to the			
Electric power input in power modes other to off mode	than 'active mode Poff		Annual electricity consumption	Qce	129 kW	Vh/a
standby mode	Pon Psb	4 W 4 W	cooling heating / Average	Qce Qhe		vn/a Vh/a
thermostat-off mode	Pto	11 W	heating / Warmer	Qhe		Vh/a Vh/a
crankcase heater mode	Pck	0 W	heating / colder	Qhe		Vh/a
					т рат	~
Capacity control(indicate one of three optio	ins)		Other items			
· · · ·			Sound power level(indoor)	Lwa		8(A)
			Sound power level(outdoor)	Lwa		8(A)
fixed	No		Global warming potential	GWP		CO2eq.
staged	No		Rated air flow(indoor)	-		3/h
variable	Yes		Rated air flow(outdoor)	-	2160 m3	3/h
Contact details for obtaining	Name and as	dress of the manufac	turer or of its authorised representative.			
		ies Air-Conditioning E				
		Park, Uxbridge, Middle				
	Kingdom	÷ ·				

#### Model SRK50ZSX-WB

Information to identify the model(s) to which			If function includes heating: Indicate the heating	•	
Indoor unit model name	SRK50ZS		information relates to. Indicated values shou		
Outdoor unit model name	SRC50ZS	X-W	heating season at a time. Include at least th	e heating sea	ason 'Average'.
Function(indicate if present)			Average(mandatory)	Yes	
cooling	Yes		Warmer(if designated)	Yes	
heating	Yes		Colder(if designated)	No	
			()		
Item	symbol	value unit	Item	symbol	value class
Design load			Seasonal efficiency and energy efficiency cl	ass	
cooling	Pdesignc	5.00 kW	cooling	SEER	8.30 A++
heating / Average	Pdesignh	4.50 kW	heating / Average	SCOP/A	4.70 A++
heating / Warmer	Pdesignh	6.00 kW	heating / Warmer	SCOP/W	5.90 A+++
heating / Colder	Pdesignh	- kW	heating / Colder	SCOP/C	
Declared capacity at outdoor temperature T	dooianh		Back up heating capacity at outdoor temper	oturo Tdooig	unit
heating / Average (-10°C)	Pdh	4.50 kW	heating / Average (-10°C)	elbu	0 kW
heating / Warmer (2°C)	Pdh	6.00 kW	heating / Warmer (2°C)	elbu	0 kW
heating / Colder (-22°C)	Pdh	- kW	heating / Colder (-22°C)	elbu	- kW
		11			
Declared capacity for cooling, at indoor terr	perature 27(1	9)°C and	Declared energy efficiency ratio, at indoor te	emperature 2	7(19)°C and
outdoor temperature Tj			outdoor temperature Tj		
Tj=35°C	Pdc	5.00 kW	Tj=35°C	EERd	4.10 -
Tj=30°C	Pdc	3.70 kW	Tj=30°C	EERd	5.90 -
Tj=25°C	Pdc	2.40 kW	Tj=25°C	EERd	9.90 -
Tj=20°C	Pdc	1.50 kW	Tj=20°C	EERd	18.20 -
Declared capacity for heating / Average sea	son at indea	r	Declared coefficient of performance / Avera	00 500000 0	tindoor
temperature 20°C and outdoor temperature		1	temperature 20°C and outdoor temperature		
Tj=-7°C	Pdh	3.98 kW	Tj=-7°C	COPd	3.30 -
Tj=2°C	Pdh	2.42 kW	Tj=2°C	COPd	4.64 -
Tj=7°C	Pdh	1.56 kW	Tj=7°C	COPd	5.64 -
Tj=12℃	Pdh	1.06 kW	Tj=12℃	COPd	7.20 -
Tj=bivalent temperature	Pdh	4.50 kW	Tj=bivalent temperature	COPd	2.64 -
Tj=operating limit	Pdh	3.40 kW	Tj=operating limit	COPd	2.20 -
Declared capacity for heating / Warmer sea		r	Declared coefficient of performance / Warm		t indoor
temperature 20°C and outdoor temperature			temperature 20°C and outdoor temperature		
Tj=2°C	Pdh	6.00 kW	Tj=2°C	COPd	3.01 -
Tj=7°C	Pdh	3.90 kW	Tj=7°C	COPd	5.35 -
Tj=12°C	Pdh	1.70 kW	Tj=12°C	COPd	7.20 -
Tj=bivalent temperature	Pdh	6.00 kW	Tj=bivalent temperature	COPd	3.01 -
Tj=operating limit	Pdh	3.40 kW	Tj=operating limit	COPd	2.20 -
Declared capacity for heating / Colder seas	on, at indoor		Declared coefficient of performance / Colde	r season, at i	ndoor
temperature 20°C and outdoor temperature			temperature 20°C and outdoor temperature		10001
Tj=-7°C	Pdh	- kW	Tj=-7℃	COPd	
Tj=2℃	Pdh	- kW	Tj=2°C	COPd	
Tj=7°C	Pdh	- kW	Tj=7°C	COPd	
Tj=12°C	Pdh	- kW	Tj=12°C	COPd	
Tj=bivalent temperature	Pdh	- kW	Tj=bivalent temperature	COPd	
Tj=operating limit	Pdh	- kW	Tj=operating limit	COPd	
Tj=-15°C	Pdh	- kW	Tj=-15℃	COPd	
Bivalent temperature	Tbiv	10 °C	Operating limit temperature	Tol	-20 °C
heating / Average heating / Warmer	Tbiv	2 °C	heating / Average	Tol	-20 °C
heating / Colder	Tbiv	- °C	heating / Warmer heating / Colder	Tol	-20 C
	1014		nouting / colder	101	
Cycling interval capacity			Cycling interval efficiency	-	
for cooling	Pcycc	- kW	for cooling	EERcyc	
for heating	Pcych	- kW	for heating	COPcyc	
Degradation coefficient			Degradation coefficient		
cooling	Cdc	0.25 -	heating	Cdh	0.25 -
Electric power input in power modes other t off mode	nan 'active m Poff	ode'	Annual electricity consumption cooling	Qce	211 kWh/a
standby mode	Poπ Psb	4 VV 4 W	heating / Average	Qce Qhe	1341 kWh/a
thermostat-off mode	Psp Pto	4 VV 12 W	heating / Warmer	Qhe Qhe	1341 kWh/a 1425 kWh/a
crankcase heater mode	Pck	0 W	heating / colder	Qhe	- kWh/a
		1**			144100
Capacity control(indicate one of three optio	ıs)		Other items		
			Sound power level(indoor)	Lwa	<b>59</b> dB(A)
			Sound power level(outdoor)	Lwa	63 dB(A)
fixed	No		Global warming potential	GWP	675 kgCO2eq.
staged	No		Rated air flow(indoor)	-	858 m3/h
variable	Yes		Rated air flow(outdoor)	-	2340 m3/h
	Max	and design of the set			
Contact details for obtaining more information Mitsubis			acturer or of its authorised representative.		
		stries Air-Conditioning y Park, Uxbridge, Mide			
United K		., . an, explide, mu			
	3-3				

#### Model SRK60ZSX-WB

Information to identify the model(s) to which the			If function includes heating: Indicate the heating	•	
Indoor unit model name Outdoor unit model name	SRK60ZSX-WB		information relates to. Indicated values should		
	SRC60ZSX-W		heating season at a time. Include at least the	neating sea	son Average.
Function(indicate if present)			Average(mandatory)	Yes	
cooling	Yes		Warmer(if designated)	Yes	
heating	Yes		Colder(if designated)	No	
Item	symbol value	e unit	Item	symbol	value class
Design load cooling	Pdesignc 6	.10 kW	Seasonal efficiency and energy efficiency clas cooling	SEER	7.80 A++
heating / Average	-	.20 kW	heating / Average	SCOP/A	4.70 A++
heating / Warmer		.80 kW	heating / Warmer	SCOP/W	5.80 A+++
heating / Colder	Ŭ	- kW	heating / Colder	SCOP/C	
					unit
Declared capacity at outdoor temperature Td			Back up heating capacity at outdoor temperat	-	
heating / Average (-10°C)		.20 kW	heating / Average (-10°C)	elbu	0 kW
heating / Warmer (2°C) heating / Colder (-22°C)	Pdh 6 Pdh	.80 kW - kW	heating / Warmer (2°C) heating / Colder (-22°C)	elbu elbu	0 kW - kW
	i un			CIDU	
Declared capacity for cooling, at indoor temp	erature 27(19)°C a	and	Declared energy efficiency ratio, at indoor ten	nperature 27	7(19)°C and
outdoor temperature Tj	. ,		outdoor temperature Tj		
Tj=35℃	Pdc 6	. <b>10</b> kW	Tj=35℃	EERd	3.60 -
Tj=30°C		.50 kW	Tj=30°C	EERd	5.40 -
Tj=25°C		.90 kW	Tj=25°C	EERd	9.00 -
Tj=20°C	Pdc 1	.60 kW	Tj=20°C	EERd	18.40 -
Declared capacity for heating / Average seas	on, at indoor	1	Declared coefficient of performance / Average	e season at	indoor
temperature 20°C and outdoor temperature T			temperature 20°C and outdoor temperature T		
Tj=-7°C		.70 kW	Tj=-7℃	COPd	3.10 -
Tj=2°C	Pdh 2	. <b>80</b> kW	Tj=2°C	COPd	4.65 -
Tj=7°C		.80 kW	Tj=7°C	COPd	5.86 -
Tj=12°C		.10 kW	Tj=12°C	COPd	7.13 -
Tj=bivalent temperature		.20 kW	Tj=bivalent temperature	COPd	2.45 -
Tj=operating limit	Pdh 4	.00 kW	Tj=operating limit	COPd	2.13 -
Declared capacity for heating / Warmer seas	on at indoor		Declared coefficient of performance / Warme	r season at	indoor
temperature 20°C and outdoor temperature T			temperature 20°C and outdoor temperature T		
Tj=2°C		. <b>80</b> kW	Tj=2°C	COPd	2.70 -
Tj=7°C	Pdh 4	.37 kW	Tj=7°C	COPd	5.16 -
Tj=12°C		. <b>94</b> kW	Tj=12°C	COPd	7.31 -
Tj=bivalent temperature		.80 kW	Tj=bivalent temperature	COPd	2.70 -
Tj=operating limit	Pdh 4	.00 kW	Tj=operating limit	COPd	2.13 -
Declared capacity for heating / Colder season	at indoor		Declared coefficient of performance / Colder	season at ir	adoor
temperature 20°C and outdoor temperature T			temperature 20°C and outdoor temperature T		10001
Tj=-7°C	, Pdh	- kW	Tj=-7℃	COPd	
Tj=2°C	Pdh	- kW	Tj=2°C	COPd	
Tj=7°C	Pdh	- kW	Tj=7°C	COPd	
Tj=12℃	-	- kW	Tj=12℃	COPd	
Tj=bivalent temperature		- kW	Tj=bivalent temperature	COPd	
Tj=operating limit Ti=-15°C		- kW - kW	Tj=operating limit	COPd COPd	
IJ=-15 C	Pdh	- KVV	Tj=-15°C	COPu	
Bivalent temperature			Operating limit temperature		
heating / Average	Tbiv -	10 °C	heating / Average	Tol	-20 °C
heating / Warmer	Tbiv	2 °C	heating / Warmer	Tol	-20 °C
heating / Colder	Tbiv	- °C	heating / Colder	Tol	- °C
Cycling interval capacity		1	Cycling interval efficiency		
for cooling	Pcycc	- kW	for cooling	EERcyc	
for heating		- kW	for heating	COPcyc	
	· ·		U	,	•
Degradation coefficient			Degradation coefficient		
cooling	Cdc 0	.25 -	heating	Cdh	0.25 -
Electric power input in power modes other the	an 'active mode'	1	Annual electricity consumption		
off mode		4 W	cooling	Qce	274 kWh/a
standby mode		4 W	heating / Average	Qhe	1551 kWh/a
thermostat-off mode	Pto ·	12 W	heating / Warmer	Qhe	1643 kWh/a
crankcase heater mode	Pck	0 W	heating / colder	Qhe	- kWh/a
Capacity control(indicate one of three options	5)		Other items	Lwa	62 dp(A)
			Sound power level(indoor) Sound power level(outdoor)	Lwa Lwa	62 dB(A) 65 dB(A)
fixed	No		Global warming potential	GWP	675 kgCO2eq.
staged	No		Rated air flow(indoor)	-	978 m3/h
variable	Yes		Rated air flow(outdoor)	-	2490 m3/h
Contact details for obtaining			urer or of its authorised representative.		
		Air-Conditioning Eu k, Uxbridge, Middle			
United Kir		., storiage, midule			
	-				

#### Model SRK20ZSX-WT

Information to identify the model(s) to which			If function includes heating: Indicate the heat	•	
Indoor unit model name Outdoor unit model name	SRK20ZS		information relates to. Indicated values should		
	SRC2025	A-W	heating season at a time. Include at least the	neating sea	ISOIT 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 cooling	Pdesignc	2.00 kW	Seasonal efficiency and energy efficiency cla cooling	SEER	10.00 A+++
heating / Average	Pdesignt	2.80 kW	heating / Average	SCOP/A	5.20 A+++
heating / Warmer	Pdesignh	3.70 kW	heating / Warmer	SCOP/W	6.70 A+++
heating / Colder	Pdesignh	- kW	heating / Colder	SCOP/C	
			L *		unit
Declared capacity at outdoor temperature	0		Back up heating capacity at outdoor tempera	-	
heating / Average (-10°C)	Pdh	2.80 kW	heating / Average (-10°C)	elbu	0 kW
heating / Warmer (2°C) heating / Colder (-22°C)	Pdh Pdh	3.70 kW - kW	heating / Warmer (2°C) heating / Colder (-22°C)	elbu elbu	0 kW - kW
	Full	- KVV	Treating / Colder (-22 C)	elbu	- KVV
Declared capacity for cooling, at indoor te	mperature 27(1	9)°C and	Declared energy efficiency ratio, at indoor te	nperature 2	7(19)°C and
outdoor temperature Tj			outdoor temperature Tj		
Tj=35℃	Pdc	2.00 kW	Tj=35°C	EERd	6.45 -
Tj=30°C	Pdc	1.47 kW	Tj=30°C	EERd	9.29 -
Tj=25°C	Pdc	1.25 kW	Tj=25℃	EERd	13.90 -
Tj=20°C	Pdc	1.36 kW	Tj=20°C	EERd	20.70 -
Declared capacity for heating / Average se	eason. at indoo	r	Declared coefficient of performance / Average	e season, a	t indoor
temperature 20°C and outdoor temperature			temperature 20°C and outdoor temperature 1		
Tj=−7°C	Pdh	2.40 kW	Tj=-7°C	COPd	3.20 -
Tj=2°C	Pdh	1.48 kW	Tj=2°C	COPd	5.30 -
Tj=7°C	Pdh	0.96 kW	Tj=7°C	COPd	6.50 -
Tj=12°C	Pdh	0.96 kW	Tj=12°C	COPd	8.28 -
Tj=bivalent temperature	Pdh Pdh	2.80 kW 2.12 kW	Tj=bivalent temperature Tj=operating limit	COPd COPd	2.79 - 2.33 -
Tj=operating limit	Pull	2.12 KVV		COPu	2.33 -
Declared capacity for heating / Warmer se	eason, at indoor		Declared coefficient of performance / Warme	r season, at	indoor
temperature 20°C and outdoor temperatur			temperature 20°C and outdoor temperature 1		
Tj=2°C	Pdh	3.70 kW	Tj=2°C	COPd	3.40 -
Tj=7°C	Pdh	2.40 kW	Tj=7°C	COPd	6.12 -
Tj=12°C	Pdh	1.10 kW	Tj=12°C	COPd	8.21 -
Tj=bivalent temperature	Pdh	3.70 kW	Tj=bivalent temperature	COPd	3.40 - 2.33 -
Tj=operating limit	Pdh	2.12 kW	Tj=operating limit	COPd	2.33 -
Declared capacity for heating / Colder sea	ison, at indoor		Declared coefficient of performance / Colder	season, at i	ndoor
temperature 20°C and outdoor temperatur			temperature 20°C and outdoor temperature 1		
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 Ti=12℃	COPd COPd	
Tj=12°C Tj=bivalent temperature	Pdh Pdh	- kW - kW	Tj=12 C Tj=bivalent temperature	COPd	
Tj=operating limit	Pdh	- kW	Tj=operating limit	COPd	
Tj=-15℃	Pdh	- kW	Ti=-15°C	COPd	
	-				4
Bivalent temperature			Operating limit temperature		
heating / Average	Tbiv	<u>-10</u> ℃	heating / Average	Tol	-20 °C
heating / Warmer heating / Colder	Tbiv	2 °C - °C	heating / Warmer heating / Colder	Tol Tol	20 ℃ _ ℃
	Tbiv	- 0		101	
Cycling interval capacity			Cycling interval efficiency		
for cooling	Pcycc	- kW	for cooling	EERcyc	
for heating	Pcych	- kW	for heating	COPcyc	
			De voe detiene ee efficient		
Degradation coefficient cooling	Cdc	0.25 -	Degradation coefficient heating	Cdh	0.25
	540				
Electric power input in power modes other	than 'active m		Annual electricity consumption		
off mode	Poff	<b>4</b> W	cooling	Qce	<b>70</b> kWh/a
standby mode	Psb	4 W	heating / Average	Qhe	754 kWh/a
thermostat-off mode	Pto	11 W	heating / Warmer	Qhe	774 kWh/a
crankcase heater mode	Pck	0 W	heating / colder	Qhe	- kWh/a
Capacity control(indicate one of three opti	ons)	]	Other items		
	- /		Sound power level(indoor)	Lwa	53 dB(A)
			Sound power level(outdoor)	Lwa	56 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)		1860 m3/h
Contact details for obtaining	Name and	address of the manufac	turer or of its authorised representative.		
		stries Air-Conditioning E			
5 The S	Square, Stockle	y Park, Uxbridge, Middle			
United	Kingdom				

#### Model SRK25ZSX-WT

Information to identify the model(s) to which			If function includes heating: Indicate the heating	•	
Indoor unit model name	SRK25ZS		information relates to. Indicated values sho		
Outdoor unit model name	SRC25ZS	X-W	heating season at a time. Include at least th	e heating sea	ason 'Average'.
Function(indicate if present)			Average(mandatory)	Yes	
cooling	Yes		Warmer(if designated)	Yes	
heating	Yes		Colder(if designated)	No	
Item	symbol	value unit	Item	symbol	value class
Design load			Seasonal efficiency and energy efficiency c		
cooling	Pdesignc	2.50 kW	cooling	SEER	10.30 A+++
heating / Average	Pdesignh	3.00 kW	heating / Average	SCOP/A	5.20 A+++
heating / Warmer heating / Colder	Pdesignh	4.20 kW - kW	heating / Warmer heating / Colder	SCOP/W SCOP/C	6.60 A+++
	Pdesignh	- KVV	rieating / Colder	300F/0	unit
Declared capacity at outdoor temperature T	desianh		Back up heating capacity at outdoor temper	ature Tdesig	
heating / Average (-10°C)	Pdh	3.00 kW	heating / Average (-10°C)	elbu	0 kW
heating / Warmer (2°C)	Pdh	4.20 kW	heating / Warmer (2°C)	elbu	0 kW
heating / Colder (-22°C)	Pdh	- kW	heating / Colder (-22°C)	elbu	- kW
Declared capacity for cooling, at indoor tem	perature 27(	19)°C and	Declared energy efficiency ratio, at indoor to	emperature 2	7(19)°C and
outdoor temperature Tj			outdoor temperature Tj		
Tj=35°C	Pdc	2.50 kW	Tj=35°C	EERd	5.68 -
Tj=30℃	Pdc	1.84 kW	Tj=30°C	EERd	8.75 -
Tj=25°C	Pdc Pdc	1.27 kW 1.40 kW	Tj=25℃ Tj=20℃	EERd EERd	14.10 - 20.40 -
Tj=20°C	FUC	1.40 KVV	IJ-20 C	EERU	20.40 -
Declared capacity for heating / Average sea	son, at indoo	or	Declared coefficient of performance / Avera	de season, a	t indoor
temperature 20°C and outdoor temperature			temperature 20°C and outdoor temperature		
Tj=-7℃	Pdh	2.61 kW	Tj=-7℃	COPd	3.15 -
Tj=2°C	Pdh	1.59 kW	Tj=2℃	COPd	5.30 -
Tj=7°C	Pdh	1.03 kW	Tj=7°C	COPd	6.58 -
Tj=12°C	Pdh	0.96 kW	Tj=12°C	COPd	8.30 -
Tj=bivalent temperature	Pdh	3.00 kW	Tj=bivalent temperature	COPd	2.69 -
Tj=operating limit	Pdh	2.40 kW	Tj=operating limit	COPd	2.30 -
Declared capacity for heating / Warmer sea		r	Declared coefficient of performance / Warm		Indoor
temperature 20°C and outdoor temperature		4.20	temperature 20°C and outdoor temperature		2.20
Tj=2°C	Pdh Pdh	4.20 kW 2.70 kW	Tj=2°C	COPd COPd	3.30 - 5.90 -
Tj=7°C Tj=12°C	Pdh	1.20 kW	Tj=7°C Tj=12℃	COPd	8.27 -
Tj=bivalent temperature	Pdh	4.20 kW	Tj=bivalent temperature	COPd	3.30 -
Tj=operating limit	Pdh	2.40 kW	Tj=operating limit	COPd	2.30
				00.4	2.00
Declared capacity for heating / Colder sease	on, at indoor		Declared coefficient of performance / Colde	r season, at i	ndoor
temperature 20°C and outdoor temperature			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℃	COPd	
Bivalent temperature			Operating limit temperature		
heating / Average	Tbiv	-10 °C	heating / Average	Tol	-20 °C
heating / Warmer	Tbiv	2 °C	heating / Warmer	Tol	-20 °C
heating / Colder					
	Tbiv	- °C	heating / Colder	Tol	- °C
	TDIV	- "C		Tol	- °C
Cycling interval capacity	IDIV		Cycling interval efficiency	Tol	ວ່ ເ
for cooling	Рсусс	- kW	Cycling interval efficiency for cooling	EERcyc	- 1°C
		·	Cycling interval efficiency		
for cooling for heating	Рсусс	- kW	Cycling interval efficiency for cooling for heating	EERcyc	
for cooling for heating Degradation coefficient	Pcycc Pcych	- kW - kW	Cycling interval efficiency for cooling for heating Degradation coefficient	EERcyc COPcyc	
for cooling for heating	Рсусс	- kW	Cycling interval efficiency for cooling for heating	EERcyc	
for cooling for heating Degradation coefficient cooling	Pcycc Pcych Cdc	- kW - kW 0.25 -	Cycling interval efficiency for cooling for heating Degradation coefficient heating	EERcyc COPcyc	
for cooling for heating Degradation coefficient cooling Electric power input in power modes other t	Pcycc Pcych Cdc han 'active m	kW kW 	Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption	EERcyc COPcyc Cdh	0.25
for cooling for heating Degradation coefficient cooling	Pcycc Pcych Cdc	- kW - kW 0.25 -	Cycling interval efficiency for cooling for heating Degradation coefficient heating	EERcyc COPcyc	
for cooling for heating Degradation coefficient cooling Electric power input in power modes other t off mode	Pcycc Pcych Cdc han 'active m Poff	- kW - kW 0.25 - Iode' 4 W	Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling	EERcyc COPcyc Cdh	
for cooling for heating Degradation coefficient cooling Electric power input in power modes other t off mode standby mode	Pcycc Pcych Cdc han 'active m Poff Psb	- kW - kW 0.25 - iode' 4 W 4 W	Cycling interval efficiency for cooling for heating         Degradation coefficient heating         Annual electricity consumption cooling heating / Average	EERcyc COPcyc Cdh Qce Qhe	
for cooling for heating Degradation coefficient cooling Electric power input in power modes other t off mode standby mode thermostat-off mode crankcase heater mode	Pcycc Pcych Cdc han 'active m Poff Psb Pto Pck	- kW - kW 0.25 - 100de' 4 W 4 W 11 W	Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder	EERcyc COPcyc Cdh Qce Qhe Qhe	
for cooling for heating Degradation coefficient cooling Electric power input in power modes other t off mode standby mode thermostat-off mode	Pcycc Pcych Cdc han 'active m Poff Psb Pto Pck	- kW - kW 0.25 - 100de' 4 W 4 W 11 W	Cycling interval efficiency for cooling for heating         Degradation coefficient heating         Annual electricity consumption cooling heating / Average heating / Warmer heating / colder         Other items	EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Qhe	-         -           -         -           -         -           0.25         -           85         kWh/a           808         kWh/a           891         kWh/a           -         kWh/a
for cooling for heating Degradation coefficient cooling Electric power input in power modes other t off mode standby mode thermostat-off mode crankcase heater mode	Pcycc Pcych Cdc han 'active m Poff Psb Pto Pck	- kW - kW 0.25 - 100de' 4 W 4 W 11 W	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)	EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Lwa	-         -           -         -           -         -           0.25         -           808         kWh/a           808         kWh/a           891         kWh/a           55         dB(A)
for cooling for heating Degradation coefficient cooling Electric power input in power modes other to off mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of three option	Pcycc Pcych Cdc Doff Psb Pto Pck NS)	- kW - kW 0.25 - 100de' 4 W 4 W 11 W	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)	EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Lwa Lwa	-         -           -         -           -         -           0.25         -           808         kWh/a           808         kWh/a           891         kWh/a           -         kWh/a           55         dB(A)           57         dB(A)
for cooling for heating Degradation coefficient cooling Electric power input in power modes other to off mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of three option fixed	Pcycc Pcych Cdc han 'active m Poff Psb Pto Pck Pck No	- kW - kW 0.25 - 100de' 4 W 4 W 11 W	Cycling interval efficiency for cooling for heating         Degradation coefficient heating         Annual electricity consumption cooling heating / Average heating / Varmer heating / colder         Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential	EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Lwa	-         -           -         -           0.25         -           0.25         -           808         kWh/a           891         kWh/a           891         kWh/a           55         dB(A)           57         dB(A)           675         kgCO2eq.
for cooling for heating Degradation coefficient cooling Electric power input in power modes other t off mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of three option fixed staged	Pcycc Pcych Cdc Cdc Poff Psb Pto Pck Is) No No	- kW - kW 0.25 - 100de' 4 W 4 W 11 W	Cycling interval efficiency for cooling for heating         Degradation coefficient heating         Annual electricity consumption cooling heating / Average heating / Varmer heating / colder         Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor)	EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Lwa Lwa GWP	-         -           -         -           -         -           0.25         -           808         kWh/a           891         kWh/a           -         kWh/a           55         dB(A)           57         dB(A)           675         kgCO2eq.           732         m3/h
for cooling for heating Degradation coefficient cooling Electric power input in power modes other to off mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of three option fixed	Pcycc Pcych Cdc han 'active m Poff Psb Pto Pck Pck No	- kW - kW 0.25 - 100de' 4 W 4 W 11 W	Cycling interval efficiency for cooling for heating         Degradation coefficient heating         Annual electricity consumption cooling heating / Average heating / Varmer heating / colder         Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential	EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Lwa Lwa	-         -           -         -           0.25         -           85         kWh/a           808         kWh/a           891         kWh/a           55         dB(A)           57         dB(A)           675         kgCO2eq.
for cooling for heating Degradation coefficient cooling Electric power input in power modes other to off mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of three option fixed staged variable	Pcycc Pcych Cdc Cdc Poff Psb Pto Pck No No Yes	- kW - kW 0.25 - iode' 4 W 4 W 11 W 0 W	Cycling interval efficiency for cooling for heating         Degradation coefficient heating         Annual electricity consumption cooling heating / Average heating / Average heating / Overner heating / colder         Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor)	EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Lwa Lwa GWP	-         -           -         -           0.25         -           85         kWh/a           808         kWh/a           891         kWh/a           -         kWh/a           55         dB(A)           57         dB(A)           675         kgCO2eq.           732         m3/h
for cooling for heating Degradation coefficient cooling Electric power input in power modes other t off mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of three option fixed staged variable Contact details for obtaining	Pcycc Pcych Cdc han 'active m Poff Psb Pto Pck Is) No No Yes	-         kW           -         kW           -         kW           0.25         -           iode'	Cycling interval efficiency for cooling for heating         Degradation coefficient heating         Annual electricity consumption cooling heating / Average heating / Varmer heating / colder         Other items Sound power level(indoor) Sound power level(indoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor)         Rated air flow(outdoor)         colder	EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Lwa Lwa GWP	-         -           -         -           0.25         -           85         kWh/a           808         kWh/a           891         kWh/a           -         kWh/a           55         dB(A)           57         dB(A)           675         kgCO2eq.           732         m3/h
for cooling for heating Degradation coefficient cooling Electric power input in power modes other to off mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of three option fixed staged variable Contact details for obtaining more information	Pcycc Pcych Cdc han 'active m Poff Psb Pto Pck IS) No Yes Name and hi Heavy Indu	- kW - kW 0.25 - iode' 4 W 4 W 11 W 0 W	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(indoor)         Rated air flow(outdoor)         turer or of its authorised representative.	EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Lwa Lwa GWP	-         -           -         -           0.25         -           85         kWh/a           808         kWh/a           891         kWh/a           -         kWh/a           55         dB(A)           57         dB(A)           675         kgCO2eq.           732         m3/h
for cooling for heating Degradation coefficient cooling Electric power input in power modes other to off mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of three option fixed staged variable Contact details for obtaining more information	Pcycc Pcych Cdc Cdc Poff Psb Pto Pck No No Yes Name and i Heavy Indi uare, Stockle		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(indoor)         Rated air flow(outdoor)         turer or of its authorised representative.	EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Lwa Lwa GWP	-         -           -         -           -         -           0.25         -           808         kWh/a           891         kWh/a           -         kWh/a           55         dB(A)           57         dB(A)           675         kgCO2eq.           732         m3/h

# Model SRK35ZSX-WT

Information to identify the model(s) to w			If function includes heating: Indicate the h			
Indoor unit model name	SRK35ZSX- SRC35ZSX-		information relates to. Indicated values sh			
Outdoor unit model name	38039237	vv	heating season at a time. Include at least	the neating sea	son Average.	
Function(indicate if present)			Average(mandatory)	Yes		
cooling	Yes		Warmer(if designated)	Yes		
heating	Yes		Colder(if designated)	No		
Item	symbol \	/alue unit	Item	symbol	value class	
Design load cooling	Pdesignc	3.50 kW	Seasonal efficiency and energy efficiency cooling	SEER	9.50 A++	
heating / Average	Pdesignt	3.40 kW	heating / Average	SEER SCOP/A	5.10 A++	
heating / Warmer	Pdesignh	4.70 kW	heating / Warmer	SCOP/W	6.50 A++	
heating / Colder	Pdesignh	- kW	heating / Colder	SCOP/C		
					unit	
Declared capacity at outdoor temperatu	~ <b>–</b>		Back up heating capacity at outdoor temp	•		
heating / Average (-10°C)	Pdh	3.40 kW	heating / Average (-10°C)	elbu	0 kW	
heating / Warmer (2°C) heating / Colder (-22°C)	Pdh Pdh	4.70 kW	heating / Warmer (2°C) heating / Colder (-22°C)	elbu elbu	0 kW - kW	
neating / Colder (-22 C)	Full	- KVV	Treating / Colder (-22 C)	elbu	- KVV	
Declared capacity for cooling, at indoor	temperature 27(19	)°C and	Declared energy efficiency ratio, at indoor	temperature 2	7(19)°C and	
outdoor temperature Tj			outdoor temperature Tj			
Tj=35℃	Pdc	3.50 kW	Tj=35°C	EERd	4.73 -	
Tj=30°C	Pdc	2.58 kW	Tj=30°C	EERd	7.29 -	
Tj=25°C	Pdc	1.66 kW	Tj=25°C	EERd	12.43 -	
Tj=20°C	Pdc	1.38 kW	Tj=20°C	EERd	19.00 -	
Declared capacity for heating / Average	season, at indoor		Declared coefficient of performance / Ave	rage season, af	indoor	
temperature 20°C and outdoor temperat			temperature 20°C and outdoor temperature			
Tj=-7°C	Pdh	2.95 kW	Tj=-7°C	COPd	3.10 -	
Tj=2°C	Pdh	1.77 kW	Tj=2°C	COPd	5.18 -	
Tj=7°C	Pdh	1.20 kW	Tj=7°C	COPd	6.45 -	
Tj=12°C	Pdh	1.00 kW	Tj=12°C	COPd	8.10 -	
Tj=bivalent temperature	Pdh Pdh	3.40 kW 2.68 kW	Tj=bivalent temperature Tj=operating limit	COPd COPd	2.61 - 2.23 -	
Tj=operating limit	Pull	2.00 KVV	Tj=operating limit	COPu	2.23 -	
Declared capacity for heating / Warmer	season, at indoor		Declared coefficient of performance / War	mer season, at	indoor	
temperature 20°C and outdoor temperat			temperature 20°C and outdoor temperatur			
Tj=2°C	Pdh	4.70 kW	Tj=2°C	COPd	3.10 -	
Tj=7°C	Pdh	3.00 kW	Tj=7°C	COPd	5.80 -	
Tj=12°C	Pdh	1.30 kW	Tj=12°C	COPd	8.20 -	
Tj=bivalent temperature	Pdh	4.70 kW	Tj=bivalent temperature	COPd	3.10 -	
Tj=operating limit	Pdh	2.68 kW	Tj=operating limit	COPd	2.23 -	
Declared capacity for heating / Colder s	eason, at indoor		Declared coefficient of performance / Colo	ler season, at ir	ndoor	
temperature 20°C and outdoor temperat			temperature 20°C and outdoor temperatur			
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 Ti=12°C	COPd		
Tj=12°C Tj=bivalent temperature	Pdh Pdh	- kW - kW	Tj=12 C Tj=bivalent temperature	COPd COPd		
Tj=operating limit	Pdh	- kW	Tj=operating limit	COPd		
Tj=-15℃	Pdh	- kW	Ti=-15°C	COPd		
	· · ·	I				
Bivalent temperature	F		Operating limit temperature			
heating / Average	Tbiv	<u>-10</u> ℃	heating / Average	Tol	-20 °C	
heating / Warmer heating / Colder	Tbiv	2 °C - °C	heating / Warmer	Tol	<u>-20</u> ℃ - ℃	
	Tbiv	- 0	heating / Colder	Tol	- 10	
Cycling interval capacity			Cycling interval efficiency			
for cooling	Pcycc	- kW	for cooling	EERcyc		
for heating	Pcych	- kW	for heating	COPcyc		
			Demodeling as off signal			
Degradation coefficient cooling	Cdc	0.25 -	Degradation coefficient heating	Cdh	0.25 -	
	000	0.20	lieding	Gui	0.20	
Electric power input in power modes oth	ner than 'active mor		Annual electricity consumption			
off mode	Poff	4 W	cooling	Qce	129 kWh/a	
standby mode	Psb	4 W	heating / Average	Qhe	934 kWh/a	
thermostat-off mode	Pto	11 W	heating / Warmer	Qhe	1013 kWh/a	
crankcase heater mode	Pck	0 W	heating / colder	Qhe	- kWh/a	
Capacity control(indicate one of three of	ptions)	]	Other items			
	/		Sound power level(indoor)	Lwa	58 dB(A)	
			Sound power level(outdoor)	Lwa	61 dB(A)	
fixed	No		Global warming potential	GWP	675 kgCO2	2eq.
staged	No		Rated air flow(indoor)	-	786 m3/h	
variable	Yes		Rated air flow(outdoor)	-	2160 m3/h	
Contact details for obtaining	Name and a	ddress of the manufac	turer or of its authorised representative.			
		ries Air-Conditioning E				
5 Th	e Square, Stockley	Park, Uxbridge, Middle				
Unite	ed Kingdom					

RWA000Z271

# Model SRK50ZSX-WT

Information to identify the model(s) to which				If function includes heating: Indicate the heating season the			
Indoor unit model name Outdoor unit model name	SRK50ZSX-WT SRC50ZSX-W			information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.			۵'
	3K03023	~~~~		heading season at a time. Include at least the	fieating sea	ISOIT AVEIAG	с.
Function(indicate if present)				Average(mandatory)	Yes		
cooling	Yes			Warmer(if designated)	Yes		
heating	Yes			Colder(if designated)	No		
lterre	ourse of	value	unit	ltem	au mahal	value	alaaa
Item Design load	symbol	value u	unit	Item Seasonal efficiency and energy efficiency cla	symbol	value	class
cooling	Pdesignc	5.00 k	W	cooling	SEER	8.30	A++
heating / Average	Pdesignh	4.50 k	W	heating / Average	SCOP/A	4.70	A++
heating / Warmer	Pdesignh		W	heating / Warmer	SCOP/W	5.90	A+++
heating / Colder	Pdesignh	- k	W	heating / Colder	SCOP/C	-	-
Declared capacity at outdoor temperature 1	designh			Back up heating capacity at outdoor tempera	ture Tdesiar	h	unit
heating / Average (-10°C)	Pdh	4.50	W	heating / Average (-10°C)	elbu	0	kW
heating / Warmer (2°C)	Pdh	6.00 k	W	heating / Warmer (2°C)	elbu	0	kW
heating / Colder (-22°C)	Pdh	- k	ŚŴ	heating / Colder (-22°C)	elbu	-	kW
	1 07/4	0)00				7(10)00	
Declared capacity for cooling, at indoor terr outdoor temperature Tj	perature 27(1	9)°C and		Declared energy efficiency ratio, at indoor te outdoor temperature Tj	mperature 2	7(19)°C and	
Tj=35°C	Pdc	5.00 k	W	Ti=35°C	EERd	4.10	1-
Tj=30℃	Pdc		ŚŴ	Tj=30°C	EERd	5.90	-
Tj=25℃	Pdc	2.40 k	ŚŴ	Tj=25°C	EERd	9.90	-
Tj=20°C	Pdc	1.50 k	(W	Tj=20°C	EERd	18.20	-
Declared capacity for booting / Average	eon of inda-	r	1	Declared coefficient of portermones / A	0 00000 -1	Lindcor	
Declared capacity for heating / Average sea temperature 20°C and outdoor temperature		I		Declared coefficient of performance / Average temperature 20°C and outdoor temperature			
Tj=-7°C	Pdh	3.98 k	W	Tj=-7°C	COPd	3.30	]- I
Tj=2°C	Pdh		ŚŴ	Tj=2°C	COPd	4.64	-
Tj=7°C	Pdh	1.56 k	ŚŴ	Tj=7°C	COPd	5.64	-
Tj=12°C	Pdh		W	Tj=12°C	COPd	7.20	-
Tj=bivalent temperature	Pdh		Ŵ	Tj=bivalent temperature	COPd	2.64	-
Tj=operating limit	Pdh	3.40 k	Ŵ	Tj=operating limit	COPd	2.20	-
Declared capacity for heating / Warmer sea	son, at indooi	r		Declared coefficient of performance / Warme	er season, at	indoor	
temperature 20°C and outdoor temperature				temperature 20°C and outdoor temperature			
Tj=2°C	Pdh		kW .	Tj=2°C	COPd	3.01	-
Tj=7°C	Pdh		W	Tj=7°C	COPd	5.35	-
Tj=12°C Tj=bivalent temperature	Pdh Pdh		(W (W	Tj=12°C Tj=bivalent temperature	COPd COPd	7.20	-
Tj=operating limit	Pdh		Ŵ	Tj=operating limit	COPd	2.20	-
		1					
Declared capacity for heating / Colder seas				Declared coefficient of performance / Colder		ndoor	
temperature 20°C and outdoor temperature			34/	temperature 20°C and outdoor temperature			n l
Tj=-7°C Tj=2°C	Pdh Pdh		(W (W	Tj=-7℃ Tj=2℃	COPd COPd	-	-
Tj=7°C	Pdh		Ŵ	Tj=2°C	COPd		-
Tj=12℃	Pdh		W	Tj=12°C	COPd	-	-
Tj=bivalent temperature	Pdh	- k	W	Tj=bivalent temperature	COPd	-	-
Tj=operating limit	Pdh		kW .	Tj=operating limit	COPd	-	-
Tj=-15℃	Pdh	- k	Ŵ	Tj=-15℃	COPd	-	-
Bivalent temperature				Operating limit temperature			
heating / Average	Tbiv	-10 °	Ċ	heating / Average	Tol	-20	°C
heating / Warmer	Tbiv		C	heating / Warmer	Tol	-20	°C
heating / Colder	Tbiv	- °	C	heating / Colder	Tol	-	°C
Cualing interval				Qualing interval -ff-i			
Cycling interval capacity for cooling	Pcycc	k	ŚŴ	Cycling interval efficiency for cooling	EERcyc		L
for heating	Pcych		Ŵ	for heating	COPcyc	-	_
		1 I <sup>.</sup>					
Degradation coefficient				Degradation coefficient			
cooling	Cdc	0.25 -		heating	Cdh	0.25	-
Electric power input in power modes other t	han 'active m	ode'		Annual electricity consumption			
off mode	Poff		N	cooling	Qce	211	kWh/a
standby mode	Psb		N	heating / Average	Qhe	1341	kWh/a
thermostat-off mode	Pto		N	heating / Warmer	Qhe	1425	kWh/a
crankcase heater mode	Pck	0 \	N	heating / colder	Qhe	-	kWh/a
Capacity control(indicate one of three optio	ne)			Other items			
Capacity control(indicate one of timee optio	13)			Sound power level(indoor)	Lwa	59	dB(A)
	_			Sound power level(outdoor)	Lwa	63	dB(A)
fixed	No			Global warming potential	GWP	675	kgCO2eq.
staged	No			Rated air flow(indoor)	-	858	m3/h
variable	Yes			Rated air flow(outdoor)	-	2340	m3/h
Contact details for obtaining	Name and	address of th	e manufac	turer or of its authorised representative.			
	hi Heavy Indu						
5 The So	quare, Stockle			esex, UB11 1ET			
United K	ingdom						

# Model SRK60ZSX-WT

Information to identify the model(s) to which				If function includes heating: Indicate the he	0		
Indoor unit model name	SRK60ZSX			information relates to. Indicated values sho			
Outdoor unit model name	SRC60ZSX	-W		heating season at a time. Include at least the	he heating sea	ison 'Average	e'.
Function(indicate if present)				Average(mandatory)	Yes		
cooling	Yes			Warmer(if designated)	Yes		
heating	Yes			Colder(if designated)	No		
Item	symbol	value uni	it	Item	symbol	value	class
Design load	Pdesignc	6.10 kW	,	Seasonal efficiency and energy efficiency of	seer SEER	7.80	A++
cooling heating / Average	Pdesignt	5.20 kW		cooling heating / Average	SEER SCOP/A	4.70	A++ A++
heating / Warmer	Pdesignh	6.80 kW		heating / Warmer	SCOP/W	5.80	A+++
heating / Colder	Pdesignh	- kW		heating / Colder	SCOP/C	-	-
		•		÷		•	unit
Declared capacity at outdoor temperature To				Back up heating capacity at outdoor tempe	-		
heating / Average (-10°C)	Pdh	5.20 kW		heating / Average (-10°C)	elbu		kW
heating / Warmer (2°C) heating / Colder (-22°C)	Pdh Pdh	6.80 kW - kW		heating / Warmer (2°C) heating / Colder (-22°C)	elbu elbu		kW kW
	Full	- KVV	/	neating / Colder (-22 C)	eibu	-	KVV
Declared capacity for cooling, at indoor temp	erature 27(19	9)°C and		Declared energy efficiency ratio, at indoor t	emperature 2	7(19)°C and	
outdoor temperature Tj		,		outdoor temperature Tj		( - )	
Tj=35℃	Pdc	6.10 kW	/	Tj=35℃	EERd	3.60	-
Tj=30°C	Pdc	4.50 kW		Tj=30°C	EERd	5.40	-
Tj=25°C	Pdc	2.90 kW		Tj=25°C	EERd	9.00	-
Tj=20°C	Pdc	1.60 kW	/	Tj=20°C	EERd	18.40	-
Declared capacity for heating / Average seas	on at indoor			Declared coefficient of performance / Avera		indoor	
temperature 20°C and outdoor temperature				temperature 20°C and outdoor temperature			
Tj=-7°C	Pdh	4.70 kW	,	Tj=-7℃	COPd	3.10	-
Tj=2°C	Pdh	2.80 kW	/	Tj=2°C	COPd	4.65	-
Tj=7°C	Pdh	1.80 kW	/	Tj=7°C	COPd	5.86	-
Tj=12°C	Pdh	1.10 kW		Tj=12°C	COPd	7.13	-
Tj=bivalent temperature	Pdh	5.20 kW		Tj=bivalent temperature	COPd	2.45	-
Tj=operating limit	Pdh	4.00 kW	/	Tj=operating limit	COPd	2.13	-
Declared capacity for heating / Warmer seas	on at indeer			Declared coefficient of performance / Warn	nor according of	indoor	
temperature 20°C and outdoor temperature 7				temperature 20°C and outdoor temperature		IIIuuuu	
Tj=2°C	Pdh	6.80 kW	/	Tj=2°C	COPd	2.70	-
Tj=7°C	Pdh	4.37 kW		Tj=7°C	COPd	5.16	-
Tj=12℃	Pdh	1.94 kW	/	Tj=12℃	COPd	7.31	-
Tj=bivalent temperature	Pdh	6.80 kW	/	Tj=bivalent temperature	COPd	2.70	-
Tj=operating limit	Pdh	4.00 kW	/	Tj=operating limit	COPd	2.13	-
Deslared conseits for besting / Colder coses	a atindaar			Deslayed coefficient of performance / Colde	r aaaaa at i	adaar	
Declared capacity for heating / Colder seaso temperature 20°C and outdoor temperature 7				Declared coefficient of performance / Colde temperature 20°C and outdoor temperature		10001	
Tj=-7°C	Pdh	- kW	,	Tj=-7°C	COPd	-	-
Tj=2°C	Pdh	- kW		Tj=2°C	COPd	-	-
Tj=7°C	Pdh	- kW	/	Tj=7°C	COPd	-	-
Tj=12°C	Pdh	- kW	/	Tj=12°C	COPd	-	-
Tj=bivalent temperature	Pdh	- kW		Tj=bivalent temperature	COPd	-	-
Tj=operating limit	Pdh	- kW		Tj=operating limit	COPd	-	-
Tj=-15℃	Pdh	- kW	/	Tj=-15℃	COPd	-	-
Bivalent temperature				Operating limit temperature			
heating / Average	Tbiv	-10 °C		heating / Average	Tol	-20	°C
heating / Warmer	Tbiv	2 °C		heating / Warmer	Tol	-20	°C
heating / Colder	Tbiv	- °C		heating / Colder	Tol	-	°C
Cycling interval capacity	D		,	Cycling interval efficiency			I
for cooling	Pcycc	- kW		for cooling	EERcyc	-	-
for heating	Pcych	- kW	/	for heating	COPcyc	-	-
Degradation coefficient				Degradation coefficient			
cooling	Cdc	0.25 -		heating	Cdh	0.25	-
Electric power input in power modes other th				Annual electricity consumption	0	071	1.3.4/1- /
off mode	Poff Psb	4 W 4 W		cooling	Qce		kWh/a kWh/a
standby mode thermostat-off mode	Psp Pto	4 VV 12 W		heating / Average heating / Warmer	Qhe Qhe		kWh/a kWh/a
crankcase heater mode	Pito Pck	0 W		heating / colder	Qhe		kWh/a kWh/a
		• Iu				ļ	
Capacity control(indicate one of three options	3)			Other items			
				Sound power level(indoor)	Lwa	62	dB(A)
				Sound power level(outdoor)	Lwa	65	dB(A)
fixed	No			Global warming potential	GWP	675	kgCO2eq.
staged	No			Rated air flow(indoor)	-	978	m3/h m3/h
variable	Yes			Rated air flow(outdoor)	-	2490	m3/h
			manufact				
Contact details for obtaining	Name and a	address of the	manulaci	urer or of its authorised representative.			
more information Mitsubish	Heavy Indus	stries Air-Condi	tioning Eu	urope, Ltd.			
more information Mitsubish	Heavy Indus are, Stockley	stries Air-Condi	tioning Eu				

# **14. REFERENCE**

# (1) Outline

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

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

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

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

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

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

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

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

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

# 1-2) Chemical characteristics of R32

(i) Chemical charactaristic

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

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

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

(ii) Pressure charactaristic

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

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

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

#### Comparison of saturated vapour pressure

# 1-3) Combustion Charactaristic

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

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

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

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

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

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

#### b) Energy necessary for ignition.

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

#### Minimum energy to ignite

	R32	Propane
Minimum energy to ignite (mJ)	15	0.246

# c) Combustion speed

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

#### Combustion speed

	*	
	R32	Propane
Combustion speed (cm/s)	6.7	38.7

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

## 1-4) Refrigerant oil for R32

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

# (2) Cautions for safety

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

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

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

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



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



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



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

(a) WARNING

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

- (b) The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater.
- (c) Do not pierce or burn.
- (d) Be aware that refrigerants may not contain an odour.

# (3) General

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

## 3-2) Qualification of workers

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

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

#### ► Checks to the area

Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimised.

For repair to the refrigerating system, following precautions shall be taken prior to conducting work on the system.

#### ► Work procedure

Work shall be undertaken under a controlled procedure so as to minimise the risk of a flammable gas or vapour being present while the work is being performed.

#### ► General work area

All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out. Work in confined spaces shall be avoided.

The area around the workspace shall be sectioned off.

Ensure that the conditions within the area have been made safe by control of flammable materials.

#### Checking for presence of refrigerant

The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially toxic or flammable atmospheres.

Ensure that the leak detection equipment being used is suitable for use with all applicable refrigerants, i.e. non-sparking, adequately sealed or intrinsically safe.

#### ▶ Presence of fire extinguisher

If any hot work is to be conducted on the refrigeration equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO2 fire extinguisher adjacent to the charging area.

#### ► No ignition sources

No person carrying out work in relation to a refrigeration system which involves exposing any pipe work shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion.

All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which refrigerant can possibly be released to the surrounding space.

Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks.

"No Smoking" signs shall be displayed.

#### ► Ventilated area

Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is carried out.

The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

#### ► Checks to the refrigeration equipment

Where electrical components are being changed, they shall be fit for the purpose and to the correct specification. At all times the manufacturer's maintenance and service guidelines shall be followed. If in doubt consult the manufacturer's technical department for assistance.

The following checks shall be applied to installations using flammable refrigerants including R32:

- The charge size is in accordance with the room size within which the refrigerant containing parts are installed;
- The ventilation machinery and outlets are operating adequately and are not obstructed;
- If an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant;
- Marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected;
- Refrigeration pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.
- ► Checks to electrical devices

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

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

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

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

Initial safety checks shall include:

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

► Repairs to sealed components

During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc.

If it is absolutely necessary to have an electrical supply to equipment during servicing, then a permanently operating form of leak detection shall be located at the most critical point to warn of a potentially hazardous situation.

Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected.

This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.

Ensure that the apparatus is mounted securely.

Ensure that seals or sealing materials have not degraded to the point that they no longer serve the purpose of preventing the ingress of flammable atmospheres.

Replacement parts shall be in accordance with the manufacturer's specifications.

#### ▶ Repair to intrinsically safe components

 Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use.

Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere. The test apparatus shall be at the correct rating.

Replace components only with parts specified by the manufacturer. Other parts may result in the ignition of refrigerant in the atmosphere from a leak.

# ► Cabling

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

# ► Detection of flammable refrigerants

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

# ► Leak detection methods

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

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

# Removal and evacuation

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

- remove refrigerant;
- purge the circuit with inert gas;
- evacuate;
- purge again with inert gas;
- open the circuit by cutting or brazing.

The refrigerant charge shall be recovered into the correct recovery cylinders.

For appliances containing flammable refrigerants, the system shall be "flushed" with OFN to render the unit safe.

This process may need to be repeated several times.

Compressed air or oxygen shall not be used for purging refrigerant systems.

For appliances containing flammable refrigerants, flushing shall be achieved by breaking the vacuum in the system with OFN and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum. This process shall be repeated until no refrigerant is within the system.

When the final OFN charge is used, the system shall be vented down to atmospheric pressure to enable work to take place. This operation is absolutely vital if brazing operations on the pipe-work are to take place.

Ensure that the outlet for the vacuum pump is not close to any ignition sources and that ventilation is available.

# Charging procedures

In addition to conventional charging procedures, the following requirements shall be followed.

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

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

# ► Decommissioning

Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its detail. It is recommended good practice that all refrigerants are recovered safely. Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of reclaimed refrigerant. It is essential that electrical power is available before the task is commenced.

- a) Become familiar with the equipment and its operation.
- b) Isolate system electrically.
- c) Before attempting the procedure ensure that:
  - mechanical handling equipment is available, if required, for handling refrigerant cylinders;
  - all personal protective equipment is available and being used correctly;
  - the recovery process is supervised at all times by a competent person;
  - recovery equipment and cylinders conform to the appropriate standards.
- d) Pump down refrigerant system, if possible.
- e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
- f) Make sure that cylinder is situated on the scales before recovery takes place.
- g) Start the recovery machine and operate in accordance with manufacturer's instructions.
- h) Do not overfill cylinders. (No more than 80 % volume liquid charge).
- i) Do not exceed the maximum working pressure of the cylinder, even temporarily.
- j) When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.
- k) Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked.

# ► Labelling

Equipment shall be labelled stating that it has been de-commissioned and emptied of refrigerant.

The label shall be dated and signed.

For appliances containing flammable refrigerants, ensure that there are labels on the equipment stating the equipment contains flammable refrigerant.

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# ► Recovery

When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely.

When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed.

Ensure that the correct number of cylinders for holding the total system charge are available.

All cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (i.e. special cylinders for the recovery of refrigerant).

Cylinders shall be complete with pressure relief valve and associated shut-off valves in good working order.

Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs.

The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of all appropriate refrigerants including, when applicable, flammable refrigerants.

In addition, a set of calibrated weighing scales shall be available and in good working order.

Hoses shall be complete with leak-free disconnect couplings and in good condition.

Before using the recovery machine, check that it is in satisfactory working order, has been properly maintained and that any associated electrical components are sealed to prevent ignition in the event of a refrigerant release.

Consult manufacturer if in doubt.

The recovered refrigerant shall be returned to the refrigerant supplier in the correct recovery cylinder, and the relevant Waste Transfer Note arranged.

Do not mix refrigerants in recovery units and especially not in cylinders.

If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant.

The evacuation process shall be carried out prior to returning the compressor to the suppliers.

Only electric heating to the compressor body shall be employed to accelerate this process. When oil is drained from a system, it shall be carried out safely.

# MEMO

# INVERTER WALL MOUNTED TYPE RESIDENTIAL AIR-CONDITIONERS



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