

DRAFT

DATA BOOK

INVERTER MULTI-SPLIT SYSTEM RESIDENTIAL AIR-CONDITIONERS

(Split system, air to air heat pump type)

(OUTDOOR UNIT) SCM50ZS-W 60ZS-W

(INDOOR UNIT)

Wall mounted type Ceiling concealed type SRK20ZSX-W,-WB,-WT SKM20ZSP-W SRR25ZM-W 25ZSX-W,-WB,-WT 25ZSP-W 35ZM-W 35ZSX-W,-WB,-WT 35ZSP-W 50ZS-W 50ZSX-W,-WB,-WT 60ZS-W 60ZSX-W,-WB,-WT 4-way ceiling cassette type SRK20ZS-W,-WB,-WT 25ZS-W,-WB,-WT FDTC25VH 35ZS-W,-WB,-WT **35VH** 50ZS-W,-WB,-WT **50VH**

Duct connected Low/Middle static pressure type FDUM50VH

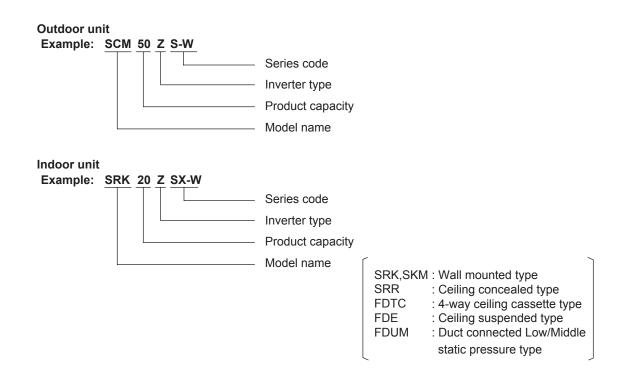
Ceiling suspended type FDE50VH

60VH

■ Table of models

Indoo	or unit	Outdoor unit to	be combined
Type	Model	SCM50ZS-W	SCM60ZS-W
	SRK20ZSX-W,-WB,-WT	0	0
	25ZSX-W,-WB,-WT	0	0
	35ZSX-W,-WB,-WT	0	0
	50ZSX-W,-WB,-WT	0	\circ
	60ZSX-W,-WB,-WT	_	\bigcirc
Wall mounted type	SRK20ZS-W,-WB,-WT	\circ	\circ
vvaii modified type	25ZS-W,-WB,-WT	0	\circ
	35ZS-W,-WB,-WT	0	\circ
	50ZS-W,-WB,-WT	0	\circ
	SKM20ZSP-W	0	\bigcirc
	25ZSP-W	\bigcirc	\bigcirc
	35ZSP-W		\circ
	SRR25ZM-W		\bigcirc
Ceiling concealed type	35ZM-W	\circ	\circ
Celling concealed type	50ZS-W	\circ	\circ
	60ZS-W	_	\circ
	FDTC25VH	0	\circ
4-way ceiling cassette type	35VH	0	\circ
	50VH	0	\circ
	60VH		\circ
Duct connected Low/Middle static pressure type	FDUM50VH	0	0
Ceiling suspended type	FDE50VH	\circ	\circ

■ How to read the model name



1. OUTDOOR UNITS

1.1 Specifications

Item			Model	SCM50ZS-W
Power sour	rce			1 Phase, 220 - 240V, 50Hz / 220V, 60Hz
-ower sour	Nominal cooling c	anacity (Danga)	kW	5.0 (1.7 (Min.) - 7.1 (Max.))
			kW	
	Nominal heating c			6.0 (1.0(Min.) - 7.5 (Max.))
	Heating capacity (kW	-
	L	Cooling	-	1.02 (0.43 - 2.15)
	Power consumption		kW	1.16 (0.32 - 2.50)
		Heating (F	12)	-
	Max power consu	mption		2.8
	Dunning ouwant	Cooling		4.7 / 4.5 / 4.3 (220/ 230/ 240 V)
	Running current	Heating	A	5.4 / 5.1 / 4.9 (220/ 230/ 240 V)
Operation	Inrush current, ma	x current		5.0 Max. 15
data (1)		Cooling		98
	Power factor	Heating		98
	EER	Cooling		4.90
	LLIT	Heating		5.17
	COP		10)	J.17 -
		Heating (F	12)	
	Sound power leve	Cooling	 -	62
		Heating		64
	Sound pressure le	vel	dB(A)	49
	Courta pressure to	Heating		52
	Silent mode sound	pressure level		Cooling:43 / Heating:44
Exterior din	nensions (Height x V	Vidth x Depth)	mm	640 x 850(+65) x 290
Exterior app	pearance			Stucco white
(Equivalent				Munsell: (4.2Y 7.5/1.1), near equivalent
Net weight	•		kg	48.5
Compressor type & Quantity			RMT5113SBE1 (Twin rotary type) x 1	
Compressor motor (Starting method)		kW	1.4 (Line starting)	
Refrigerant oil (Amount, type)		e l	0.45 (DIAMOND FREEZE MB75	
Refrigerant (Type, amount, pre-charge length)		kg	R32 1.8 (Pre-charged up to the piping length of 40m)	
		Charge length)	Ng	, , , , , , , ,
Heat excha				M fins & inner grooved tubing
Refrigerant				Capillary tubes + Electronic expansion valve
Device con				Microcomputer control
Fan type &	Quantity			Propeller fan x 1
Fan motor ((Starting method)		W	34
۸: دا م		Cooling	3 (:	41
Air flow		Heating	m³/min	41
Shock & vik	oration absorber			Cushion rubber (for compressor)
Electric hea	ater			-
Safety equi	ipments			Compressor overheat protection, Overcurrent protection, Frost protection, Serial signal error protection, Outdoor fan motor error protection Heating&Cooling overload protection
	Refrigerant piping	size (O.D)	mm	Liquid line: φ 6.35 (1/4") x 3 Gas line: φ 9.52 (3/8") x 3
	Connecting method			Flare connection
	Insulation for pipir		+	Necessary (Both sides), independent
nstallation			- 	Max. 25 (Length for one indoor unit)
data	Refrigerant line (O		m	Max. 45 (Cottal length for all rooms) Max. 15 (Outdoor unit is higher)
	Vertical height diff Height difference	between O.U. and I.U.		Max. 15 (Outdoor unit is nigner) Max. 15 (Outdoor unit is lower) Max. 25
D		une indoor units	m	
	nded breaker size		A	25
D // // ~ - '	ked rotor ampere)		A	5
n.A. (L0C	cting wires	Size x Core number		1.5mm ² x 4 cores (Including earth cable)
•	J9 *********	Connecting method		Terminal block (Screw fixing type)
,				IPX4
nterconnec				
nterconnec	ccessories			Union : $(\phi 9.52 \rightarrow \phi 12.7) \times 1$, Installation sheet, Elbow, Grommet
Interconnection	ccessories to be combined			Union : (φ 9.52 → φ 12.7) × 1, Installation sheet, Elbow, Grommet SRK20,25,35,50ZSX-W(-WB,-WT) SRK20,25,35,50ZS-W(-WB,-WT) SKM20,25,35ZSP-W, SRR25,35ZM-W, SRR50ZS-W FDTC25,35,50VH, FDE50VH, FDUM50VH
Interconned IP number Standard ad		units		SRK20,25,35,50ZSX-W(-WB,-WT) SRK20,25,35,50ZS-W(-WB,-WT) SKM20,25,35ZSP-W, SRR25,35ZM-W, SRR50ZS-W

(1) The data are measi		i ne pipe iength is 5m.			
Iten	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB DB WB		Staridards	
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1
Heating (H2)	20°C	_	2°C	1°C	ISO5151-H2

⁽²⁾ This air-conditioner is manufactured and tested in conformity with the ISO.

(3) Sound level indicates the value in an anechoic chamber.

During operation these values are somewhat higher due to ambient conditions.

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

Item				Model	SCM60ZS-W
Power source	ce				1 Phase, 220 - 240V, 50Hz / 220V, 60Hz
	Nominal cooling c	apacity (Ra	nge)	kW	6.0 (1.7 (Min.) - 7.5 (Max.))
	Nominal heating c	apacity (Ra	inge)	kW	6.8 (1.0 (Min.) - 7.8 (Max.))
	Heating capacity (H2)		kW	-
			Cooling		1.32 (0.43 - 2.28)
	Power consumption	on	Heating	7 F	1.40 (0.32 - 2.80)
			Heating (H2)	⊢ kW ⊢	-
	Max power consu	mntion	11100011119 (1112)	┥ ト	2.8
	IVIAX POWEI COIISU	приоп	Cooling	+ +	6.1 / 5.8 / 5.6 (220/ 230/ 240 V)
	Running current			\vdash \land \vdash	6.4 / 6.1 / 5.9 (220/ 230/ 240 V)
	lawala assumant san		Heating	⊣ ^ ⊢	, ,
Operation data (1)	Inrush current, ma	ix current	10 "		5.0 Max. 15
uaia (1)	Power factor		Cooling	- % -	99
			Heating	1 1	99
	EER		Cooling	⊣ ⊢	4.55
	COP		Heating	_	4.86
	001		Heating (H2)		-
	Sound power leve		Cooling		62
	Souria power leve	1	Heating		64
			Cooling	dB(A)	50
	Sound pressure le	evel	Heating	7	52
	Silent mode sound	d pressure l		1	Cooling:43 / Heating:44
Exterior dim	nensions (Height x V			mm	640 x 850(+65) x 290
Exterior app		VIGUI X DOP	, in the second	+	Stucco white
(Equivalent					Munsell : (4.2Y 7.5/1.1), near equivalent
Net weight				kg	48.5
Compressor type & Quantity		I Ng	RMT5113SBE1 (Twin rotary type) x 1		
Compressor type & Quantity Compressor motor (Starting method)		kW	1.4 (Line starting)		
		etnoa)			
Refrigerant oil (Amount, type)		l l	0.45 (DIAMOND FREEZE MB75)		
Refrigerant (Type, amount, pre-charge length)		kg	R32A 1.8 (Pre-charged up to the piping length of 40m)		
Heat exchai					M fins & inner grooved tubing
Refrigerant	control				Capillary tubes + Electronic expansion valve
Device cont	trol				Microcomputer control
Fan type &	Quantity				Propeller fan x 1
Fan motor (Starting method)			W	34
A ' - C -			Cooling	34	41
Air flow			Heating	m³/min	41
Shock & vib	ration absorber				Cushion rubber (for compressor)
Electric hea	ter			1 1	-
Safety equip					Compressor overheat protection, Overcurrent protection, Frost protection, Serial signal error protection, Outdoor fan motor error protection, Heating&Cooling overload protection
	Refrigerant piping	size (O.D))	mm	Liquid line: φ 6.35 (1/4") x 3 Gas line: φ 9.52 (3/8") x 3
	Connecting metho	<i></i>			Flare connection
	Insulation for pipir			1	Necessary (Both sides), independent
Installation data	Refrigerant line (O		gth	m	Max. 25 (Length for one indoor unit) Max. 40 (Total length for all rooms)
	Vertical height diff. between O.U. and I.U.		m	Max. 15 (Outdoor unit is higher) Max. 15 (Outdoor unit is lower)	
	Height difference	of the indoo	or units	m	Max. 25
Recommended breaker size		A	25		
L.R.A. (Locked rotor ampere)		A	5		
L.11.7. (LUC	tod rotor ampere)	Size x Cor	re number	1 1	1.5mm ² x 4 cores (Including earth cable)
Interconnec	ting wires			+	Terminal block (Screw fixing type)
ID words to a		Connectin	ig memod	+	
IP number				+	IPX4
Standard ac	ccessories			\perp	Union : (ϕ 9.52→ ϕ 12.7) × 2, Installation sheet, Elbow, Grommet
Indoor unit	to be combined				SRK20,25,35,50,60ZSX-W(-WB,-WT) SRK20,25,35,50ZS-W(-WB,-WT) SKM20,25,35ZSP-W, SRR25,35ZM-W, SRR50,60ZS-W FDTC25,35,50,60VH, FDE50VH, FDUM50VH
Number of o	connectable indoor	units			Min. 2 – Max. 3
Table 1 of Carolin	oor units			kW	Max. 11

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

(1) The data are meas	rne pipe iengtn is 5m.				
Iten	n Indoor air t	Indoor air temperature		temperature	Standards
Operation	DB	WB	DB	WB	Staridards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1
Heating (H2)	20°C	_	2°C	1°C	ISO5151-H2

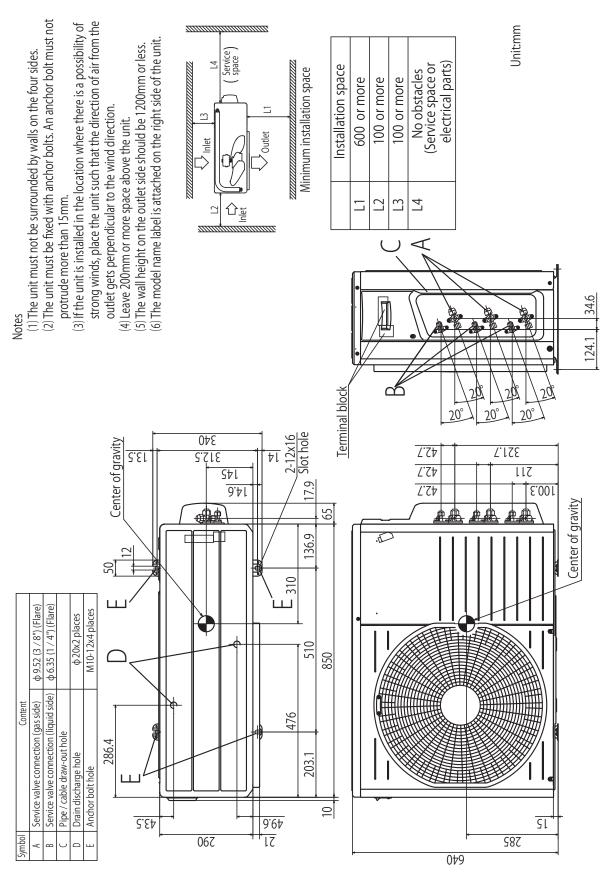
⁽²⁾ This air-conditioner is manufactured and tested in conformity with the ISO.

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

RWC000Z338

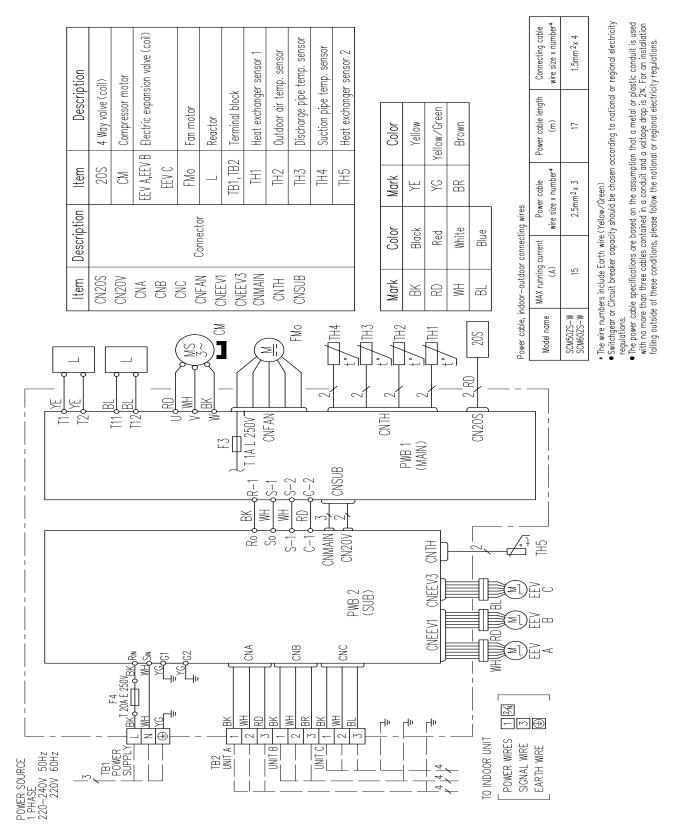
1.2 Exterior dimensions

Models SCM50ZS-W, 60ZS-W



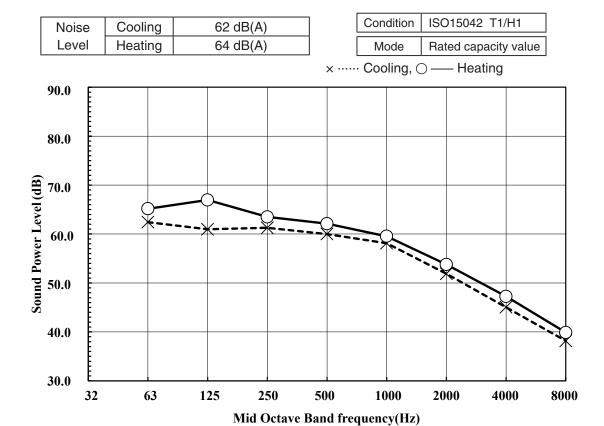
1.3 Electrical wiring

Models SCM50ZS-W, 60ZS-W



1.4 Noise level

(1) Sound power level Model SCM50ZS-W



Model SCM60ZS-W

Noise	Cooling	62 dB(A)		Condition	ISO15042 T1/H1	
Level	l Heating	64 dB(A)		Mode	Rated capacity va	lue
			× ·····	·· Cooling, (— Heating	
90.0						
80.0						
70.0 (dB)						
0.00 ower Le	*-					
Sound Power Level (dB) 60.0 50.0 50.0						
40.0						
30.0	32 63	125 250	500	1000	2000 4000	800

Mid Octave Band frequency(Hz)

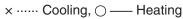
(2) Sound pressure level

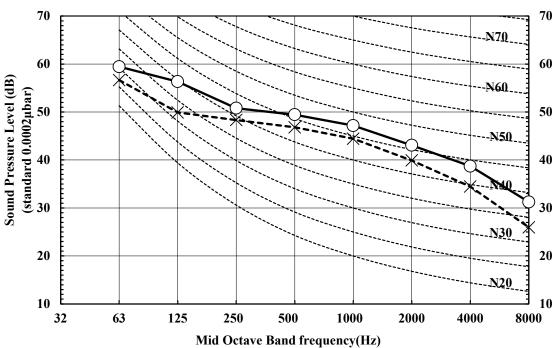
(a) Rated capacity value

Model SCM50ZS-W

Noise	Cooling	49 dB(A)	С
Level	Heating	52 dB(A)	

Condition	ISO15042 T1/H1
Mode	Rated capacity value



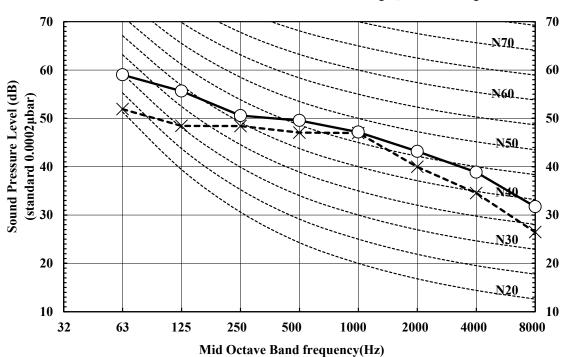


Model SCM60ZS-W

Noise	Cooling	50 dB(A)
Level	Heating	52 dB(A)

Condition	ISO15042 T1/H1
Mode	Rated capacity value

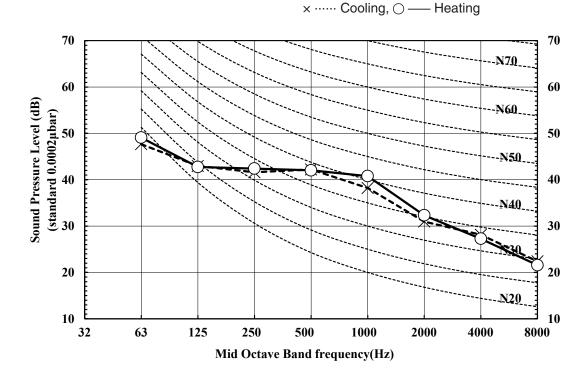
× ······ Cooling, \bigcirc — Heating



(b) Silent mode

Model SCM50ZS-W

Noise	Cooling	43 dB(A)	Condition	ISO15042 T1/H1
Level	Heating	44 dB(A)	Mode	Silent

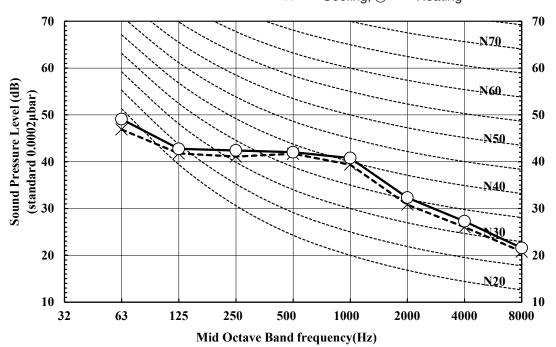


Model SCM60ZS-W

Noise	Cooling	43 dB(A)	Condition
Level	Heating	44 dB(A)	Mode

Condition	ISO15042 T1/H1
Mode	Silent





1.5 Application data

Models SCM50ZS-W, 60ZS-W

RPC012A853

Model SCM50,60ZS-W **R32 REFRIGERANT USED**

• This installation manual deals with an outdoor unit installation only. For an indoor unit installation, refer to page 82.

NOTE This model requires a minimum of 2 indoor units

SAFETY PRECAUTIONS

sequences such as death or severe injury.

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

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

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

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

 AWARNING Indicates a potentially hazardous situation which, if not avoided, can result in serious consequences such as death or severe injury.

 CAUTION Indicates a potentially hazardous situation which, if not avoided, can result in personal indicates a potentially hazardous situation which, if not avoided, can result in personal indicates a potentially hazardous situation which, if not avoided, can result in personal indicates a potentially hazardous situation which, if not avoided, can result in personal indicates a potentially hazardous situation which, if not avoided, can result in personal indicates a potentially hazardous situation which, if not avoided, can result in personal indicates a potentially hazardous situation which, if not avoided, can result in personal indicates a potentially hazardous situation which, if not avoided, can result in personal indicates a potentially hazardous situation which, if not avoided, can result in personal indicates a potentially hazardous situation which, if not avoided, can result in personal indicates a potentially hazardous situation which, if not avoided, can result in personal indicates a potentially hazardous situation which, if not avoided, can result in personal indicates a potentially hazardous situation which, if not avoided, can result in personal indicates a potentially hazardous situation which, if not avoided, can result in personal indicates a potentially hazardous situation which, if not avoided, can result in personal indicates a potentially hazardous situation which, if not avoided, can result in personal indicates a potentially hazardous situation which, if not avoided, can result in personal indicates a potentially hazardous situation which, if not avoided, can result in personal indicates a potentially hazardous

⚠ WARNING

Be sure to use only for residential purpose.

If this unit is installed in inferior environment such as machine shop, vehicle (like ship), warehouse, etc., it can malfunction.

etc., it can maltunction.
 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.
 Usino parts other than those prescribed may cause water leak, electric shock, fire and personal injury.

- 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.
- sonal injury.

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

 If refrigerant density exceeds the limit, consult the dealer and install the ventilation system.

 Otherwise lack of oxygen can occur resulting in serious accident.

 Install the unit in a location where unit will remain stable, horizontal and free featuristic in the serious accident.

- Install the unit in a location where unit will remain stable, nonzontal 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.
- 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 Warning Potential (GWP) = 675.

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

 If air enters the refrigerant circuit, the pressure in the refrigerant circuit will become too high, which
- If air enters the refrigerant circuit, the pressure in the retrigerant circuit will become to right.

 If air enters the refrigerant circuit, the pressure in the retrigerant circuit will become to right.

 If air enters the refrigerant circuit, the pressure in the retrigerant circuit burst resulting in unit failure and personal injury.

 Be sure to use the prescribed power and connecting cables for electrical. Using existing parts (for R22 or R407C) can cause refrigerant circuit burst resulting in unit failure and personal injury.

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

 This appliance must be connected to main power source by means of current to reality frails appliance must be connected to main power source by means of current to reality frails appliance must be connected to main power source by means of current to reality frails appliance must be connected to main power source by means of current to reality frails appliance must be connected to main power source by means of current to reality frails appliance must be connected to main power source by means of current to reality frails appliance must be connected to main power source by means of current to reality frails appliance must be connected to main power source by means of current frails appliance must be connected to main power source by means of current frails appliance must be connected to main power source by means of current frails appliance must be connected to main power source by means of current frails appliance must be connected to main power source by means of current frails appliance must be connected to main power source by means of current frails appliance must be connected to main power source by means of current frails appliance must be connected to main power source by means of current frails appliance must be connected to main power source by means of current frails appliance must be connected to main power source by means of current frails applian

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

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

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

- ing in burst or personal injury.

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

 If the refrigerant comes into contact with naked flames, poisonous gases will be produced.

 Electrical work must be carried out by the qualified electrician, strictly in accordance with national or regional electricity regulations.

 Incorrect installation can cause electric shock, fire or personal injury.
- Make sure that earth leakage breaker and circuit breaker of appropriate capacities 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-

- Be sure to switch off the power source in the event of installation, manne-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 cables properly to prevent overloading the terminal blocks.

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

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

other power plugs.

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

- Do not perform any change in protective device or its setup condition yourself.
 Changing protective device specifications can cause electric shock, fire or burst.

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

- component 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 3 mm.

- **⚠** CAUTION
- Take care when carrying the unit by hand.

 If the unit weight is more than 20 kg, it must be carried by two or more persons. Do not carry the unit by the plastic straps. Always use the carry handle.

- Take care when carrying the unit by hand.

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

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

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

 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 in stallation, maintenance and service.

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

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

 It can affect surrounding environment and cause a claim.

 Do not install the unit near the locations where:

 There are heal sources nearby.

 Unit is directly exposed to rain or sunlight.

 Unit is directly exposed to all mist and steam such as klichen.

 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.

 Do not install the unit in the locations where:

 There are heal 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 all mist and steam such as klichen.

 Chemical substances like ammonia (organic fertilizer), calcium chloride (snow melting agent) and acid (sulfurous acid etc.), which can harm the unit, will generate or accumulate.

 Drain water can not be discharged properly.

 TV set or radio receiver is placed within 1 m.

 Height above sea level is more than 1000 m.

 It can cause performance degradation, corrosion and damage of components, unit malfunction and fire.

 Dispose of all packing materials properly.

 Packing materials contain nails and wood which noise or air generating from the unit.
 It can affect surrounding environment and cause a claim.

 Do not install in the locations where unit is directly exposed to corrosive
- gases (like sulphide gas, chloride gas), sea breeze or salty atmosphere.
 It can cause corrosion of heat exchanger and damage to plastic parts.

 Do not install the unit close to the equipments that generate electromagnetic
- waves and/or high-harmonic waves.
 Equipment such as inverters, standby generators, medical high frequency equipments and telecom-
- munication equipments can affect the system, and cause malfunctions and breakdowns. The system can also affect medical equipment and telecommunication equipment, and obstruct its function or cause jamming.

- . Do not install the unit in the locations where:

- Do not put anything on the outdoor unit.
 Object may fall causing property damage or personal injury
- Do not touch the aluminum fin of the outdoor unit.

 Aluminium fin temperature is high during heating operation. Touching fin can cause burn.
- Do not touch any refrigerant pipe with your hands when the system is in operation.
 During operation the refrigerant pipes become extremely hot or extremely cold depending on the operating condition. Touching pipes can cause personal injury like burn (hot/cold).
 Install isolator or disconnect switch on the power source wiring in accordance with the local codes and regulations.
 The isolator should be locked in OFF state in accordance with EN60204-1.

1. ACCESSORIES AND TOOLS

(S	Standard accessories upplied with outdoor un	it)	Q'ty		Locally procured parts	Tools for installation work		
(1)	Drain grommet		1	(a)	Anchor bolt (M10-M12) × 4 pcs	Plus headed driver	Spanner wrench	Vacuum pump*
1	<u> </u>	\dashv		(b)	Putty	Knife	Torque wrench [14.0-62.0 N•m(1.4-6.2 kgf•m)]	Gauge manifold *
(2)	Drain elbow 📆 📠		1	(c)	Electrical tape	Saw	Wrench key (Hexagon) [4 mm]	Charge hose *
	Variable diameter joint SC	M50	1	(d)	Connecting pipe	Tana maaa	Flaring tool set *	Vacuum pump adapter*
(3)	(3) ø9.52→ø12.7 SCM60		2	(e)	Connecting cable	Tape measure	Flaming 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

2. OUTDOOR UNIT INSTALLATION

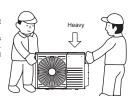
- Note as a unit designed for R32

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

1. Haulage

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

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



⚠ CAUTION

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

2. Selecting the installation location

- Select the suitable installation location where:

 Unit will be stable, horizontal and free of any vibration transmission.
- There is no obstacle which can prevent smooth air circulation from inlet and outlet side of the unit.
- There is enough space for service and maintenance of unit.
 Neighbours are not bothered by noise or air generating from the unit.
 Outlet air of the unit does not blow directly to animals or plants.
- · Drain water can be discharged properly.
- There is no risk of flammable gas leakage.
 There are no other heat sources nearby.
 Unit is not directly exposed to rain or sunlight.

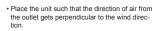
- Unit is not directly exposed to oil mist and steam.
 Chemical substances like ammonia (organic fertilizer), calcium chloride (snow melting agent) and acid (sulfurous acid etc.), which can harm the unit, will not generate or accumulate.
 Unit is not directly exposed to corrosive gases (like sulphide gas, chloride gas), sea breeze or salty at-
- No TV set or radio receiver is placed within 1 m.
 Unit is not affected by electromagnetic waves and/or high-harmonic waves generated by other equipments.
- Strong wind does not blow against the unit outlet.
 Heavy snowfalls do not occur (If installed, provide proper protection to avoid snow accumulation).

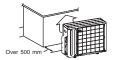
NOTE

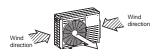
If the unit is installed in the area where there is a possibility of strong wind or snow accumulation, the fol-

(1) Location of strong wind

Place the unit with its outlet side facing the wall.

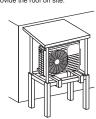






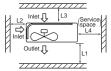
(2) Location of snow accumulation

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



3. Installation space

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



	Installation space (mm)		
L1	600 or more		
L2	100 or more		
L3	100 or more		
L4	No obstacles (Service space or electrical parts)		

NOTE

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

↑ CAUTION

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

4. Drain piping work (If necessary)

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

(1) Install drain elbow and drain grommet

(2) Seal around the drain elbow and drain grommet with putty or adequate caulking material



Do not put a grommet on this hole

This is a supplementary drain hole to discharge drain water, when a large amount of it is gathered.

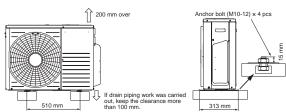
⚠ CAUTION

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

5. Installation

Install the unit on a flat level base.

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



⚠ CAUTION

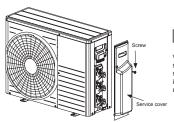
- Install the unit properly so that it does not fall over during earthquake, strong wind, etc.

 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

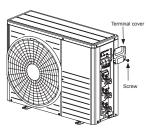
v. Slide service cover downwards and remove it.



NOTE

Variable diameter joint is inside service cover. Remove it at a safe place before carrying in the installation location to prevent unexpected fall of parts.

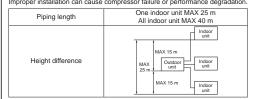
2. Removing terminal cover



4. CONNECTING PIPING WORK

1. Restrictions on unit installation

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



2. Preparation of connecting pipe

2.1 Selecting connecting pipeSelect connecting pipe according to the following table.

Indoor unit	Model 20/25/35	Model 40/50/60	
Gas pipe	ø9.52	ø12.7	
Liquid pipe	ø6.35	ø6.35	

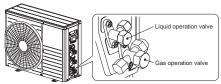
- Pipe wall thickness must be greater than or equal to 0.8 mm.
 Pipe material must be O-type (Phosphorus deoxidized seamless copper pipe ICS 23.040.15, ICS 77.150.30).

2.2 Cutting connecting pipe

- (1) Cut the connecting pipe to the required length with pipe cutter.
- (2) Hold the pipe downward and remove the burrs. Make sure that no foreign material enters the pipe.(3) Cover the connecting pipe ends with the tape.

3. Piping work

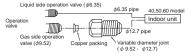
Check that both liquid and gas operation valves are fully closed. Carry out the piping work with operation valves fully closed.



(1) Take out flare nuts from the operation valves of outdoor unit. If a 4.0, 5.0, 6.0 kW class indoor unit (gas side pipe ø12.7) is going to be connected to the operation valves (e9.52), variable joints available as accessories must be applied to the gas side operation

Securely fit the copper packing between the operation valve and the variable diameter joint to

prevent shifting.
Engage flare nuts onto connecting pipes.



9.1

13.2

16.6

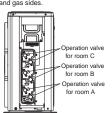
(2) Flare the pipes according to table and figure shown below. Flare dimensions for R32 are different from those for conventional refrigerant. Although it is recommended to use the flaring tools designed specifically for R32, conventional flaring tools can also be used by adjusting the dimension B with a flare adjustment gauge.





Connernine	B [Rigid (clutch) type]		
Copper pipe outer diameter	R32 or R410A	Conventional	
ø6.35	0-0.5 1.0		
ø9.52		1.0-1.5	
ø12.7			

3.2 Connecting pipes(1) Connect pipes on both liquid and gas sides



(2) Tighten nuts to specified torque shown in the table below

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



Do not hold the valve cap area with a spanner

⚠ CAUTION

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

- 4. Evacuation

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

 (2) Run the vacuum pump for at least one hour after the vacuum gauge shows -0.1 MPa (-76 cm Hg).

 (3) Confirm that the vacuum gauge indicator does not rise even if the system is left for 15 minutes or more. Vacuum gauge indicator will rise if the system has moisture left inside or has a leakage point. Check the system for the leakage point. If leakage point is found, repair it and return to (1) again.

 (4) Close the Handle Lo and stop the vacuum pump.

 Keep this state for a few minutes to make sure that the compound pressure gauge pointer does not swing back. swing back.
- (5) Remove valve caps from liquid operation valve and gas operation valve.
- (6) Turn the liquid operation valve's rod 90 degree counterclockwise with a hexagonal wrench key to

open valve.

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

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

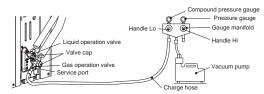
Wipe off all the water after completing the check.

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

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

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

(9) Repeat the above steps (1) to (8) for all connected indoor units.



⚠ CAUTION

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

5. ELECTRICAL WIRING WORK

↑ WARNING

- Make sure that all the electrical work is carried out in accordance with the national or regional electri-
- cal standards.

 Make sure that the earth leakage breaker and circuit breaker of appropriate capacities are installed
- (Refer to the table given below).

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

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

Model	Phase	Earth leakage breaker	Circuit breaker
SCM50/60		Leakage current: 30 mA, 0.1sec or less	Over current: 25 A

Main fuse specification

Model	Specification	Parts No.	Code on LABEL, WIRING
SCM50/60	250 V 20 A	SSA564A136A	F4

1.Preparing cable

(1) Selecting cable

Select the power source cable and connecting cable in accordance with the specifications mentioned below. (a) Power source cable

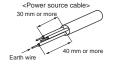
(a) Power source cable
3-core* 2.5 mm³ or more, conformed with 60245 IEC57
When selecting the power source cable length, make sure that voltage drop is less than 2 %. If the wire length gets longer, increase the wire diameter.

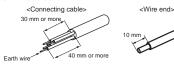
(b) Connecting cable
4-core* 1.5 mm², conformed with 60245 IEC57

1 Earth wire is included (Yellow/Green).

(2) Arrange each wire length as shown below

Make sure that each wire is stripped 10 mm from the 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



↑ CAUTION

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

5. ELECTRICAL WIRING WORK

2.Connecting cable

- (1) Remove the service cover and the terminal cover.
 (2) Connect the cables according to the instructions and figures given below.
 (a) Connect the earth wire of power source cable. An earth wire must be connected before connecting the other wires of power source cable. Keep the earth wire longer than the remaining two wires of power
- (a) Connect the earth wire of power source cable. An earth wire must be connected before connecting the other wires of power source cable. Keep the earth wire longer than the remaining two wires (N and L) of power source cable.

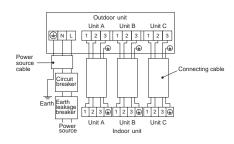
 (b) Connect the remaining two wires (N and L) of power source cable.

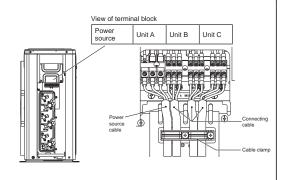
 (c) Connect the wires of connecting cables. Make sure that for each wire, outdoor and indoor side terminal numbers match. Terminal number A of the outdoor unit is used for A indoor unit and terminal number B for B indoor unit respectively. Earth wire shall be Yellow/Green (Y/G) in color and longer than other wires for safety reason.

 (3) Fasten the cables properly with cable clamps so that no external force may work on terminal connections.

 Moreover, make sure that cables do not touch the piping, etc. When cables are connected, make sure that all electrical components within the electrical component box are free of loose connector coupling or terminal connection.

<Circuit diagram>

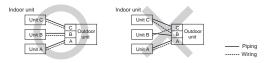




6. FINISHING WORK

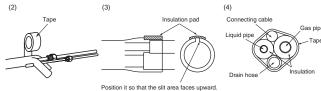
Make sure to match the piping and wiring from each unit to the outdoor unit.

• Be careful because if connections are wrong, normal operation cannot be achieved and may damage the



- insulation pad (standard accessory provided with indoor unit).

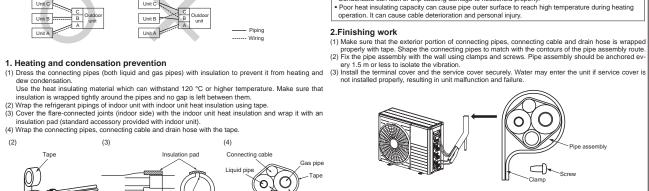
 (4) Wrap the connecting pipes, connecting cable and drain hose with the tape



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

⚠ CAUTION

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

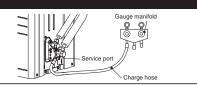


△ CAUTION

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

7. PUMP DOWN

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



8. INSTALLATION TEST CHECK POINTS

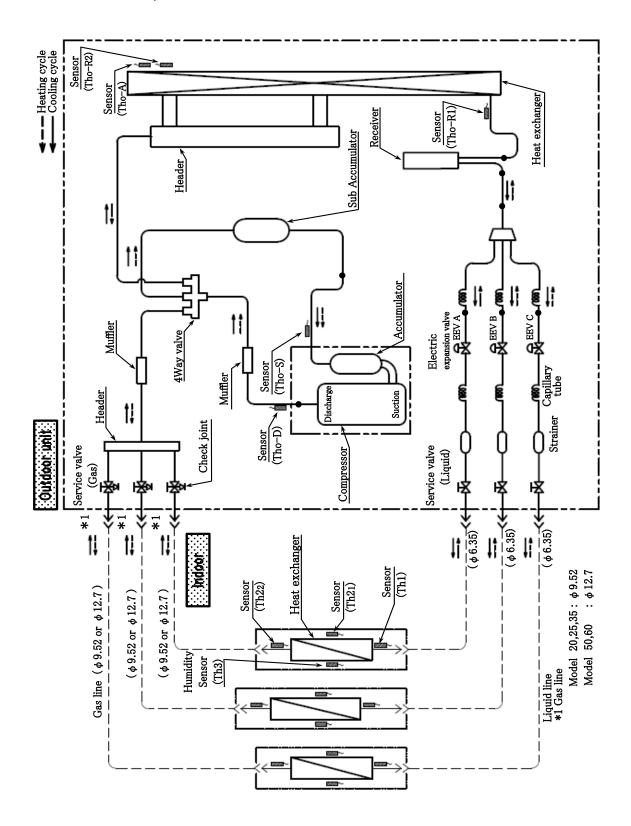
After finishing the installation work, check the following points again before turning on the power. Conduct test run (Refer to indoor unit installation manual) and ensure that the unit operates properly.

Power source voltage complies with the rated voltage of air-conditioner.	
Earth leakage breaker and circuit breaker are installed.	
Power cable and connecting cable are securely fixed to the terminal block.	
Both liquid and gas operation valves are fully open.	
No gas leaks from the joints of the operation valves.	

ronduct test fair (Note: to indoor drift installation mandal) and ensure that the t	ariit opci
Indoor and outdoor side pipe joints have been insulated.	
Drain hose (if installed) is fixed properly.	
Screw of the service cover is tightened properly.	
Piping and wiring from each unit to the outdoor unit are matched.	

3. PIPING SYSTEM

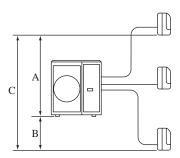
Models SCM50ZS-W, 60ZS-W



4. RANGE OF USAGE & LIMITATIONS

Model			SCM50ZS-W	SCM60ZS-W
Indoor intake air temperature (Upper, lower limits)		Cooling		ly 18 to 32°C
(Opper, lower ii	111115)	Heating		ly 15 to 30°C
Outdoor air tem	•	Cooling	• • • • • • • • • • • • • • • • • • • •	ly -15 to 46°C
(Upper, lower li	mits)	Heating	Approximate	ly -15 to 24°C
Indoor units that can be	Number of con	nected units	2 t	o 3 units
used in combination	Total of indoor Ur	nits (class kW)	4.0-8.5kW	4.0-11.0kW
Total length for	all rooms		Max. 40m	
Length for one indoor unit		Max. 25m		
Difference in height between	When indoor un outdoor unit (A)	it is above	Max. 15m	
indoor and outdoor units	When indoor un outdoor unit (B)	it is below	Max. 15m	
Difference in he	ight between inde	oor units (C)	Max. 25m	
Compressor stop/start	1 cycle time		10 min. or more (from stop	to stop or from start to start)
frequency	Stop time		3 min. or more	
_	Voltage fluctua	ıtion	Within ±10% of	of rated voltage
Power source voltage	Voltage drop d	uring start	Within ±15% of rated voltage	
	Interval unbala	nce	Within ±3% of rated voltage	
Power cable length		17	m ⁽¹⁾	

Note(1) The 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 internal cabling regulations. Adapt it to the regulation in effect in each country.



5. TABLE OF INDOOR UNIT COMBINATION

- The combinations of the indoor units is indicated by numbers. They are read as follows.
 (Example) SRK20ZSX-W→20 SRK25ZSX-W→25
- The capacity of the indoor units is shown by rooms. If this exceeds the maximum capacity of the outdoor unit, the demand capacity will be proportionally distributed.
- If units are to be combined, use the table below to make the proper selection.

Number of connectable indoor units

	SCM50ZS-W,60ZS-W
MIN	2
MAX	3

(1) Model SCM50ZS-W

(a) In case of indoor unit SRK-ZSX-W models only

	Cooling			Cod	oling capa	city (kW))		Power	consump	tion(W)	Stand	ard curre	ent(A)
Indoor	it combination	Inc	door unit o	capacity (kW)	Total	capacity ((kW)	Min.	Standard	Max.	220V	230V	240V
maoor	1	В	С	D	Min.	Standard	Max.	wiin.	Standard	wax.	220V	230V	240V	
	20	2.0	-	-	-	1.7	2.0	2.8	430	500	950	2.4	2.3	2.2
1	25	2.5	-	-	-	1.7	2.5	3.4	430	680	1070	3.2	3.1	3.0
unit	35	3.5	-	-	-	1.7	3.5	3.9	430	1010	1230	4.7	4.5	4.3
	50	5.0	-	-	-	1.7	5.0	5.5	430	1530	2000	7.0	6.7	6.4
	20+20	2.0	2.0	-	-	1.8	4.0	5.7	390	750	1750	3.5	3.3	3.2
	20+25	2.0	2.5	-	-	1.8	4.5	5.9	390	990	1910	4.6	4.4	4.2
	20+35	1.8	3.2	-	-	1.8	5.0	6.5	390	1110	2150	5.1	4.9	4.7
	20+50	1.4	3.6	-	-	1.8	5.0	6.5	390	1110	2150	5.1	4.9	4.7
_	25+25	2.5	2.5	-	-	1.8	5.0	6.5	390	1110	2150	5.1	4.9	4.7
uriilo	25+35	2.1	2.9	-	-	1.8	5.0	6.5	390	1110	2150	5.1	4.9	4.7
	25+50	1.7	3.3	-	-	1.8	5.0	6.5	390	1110	2150	5.1	4.9	4.7
	35+35	2.5	2.5	-	-	1.8	5.0	6.5	390	1110	2150	5.1	4.9	4.7
	35+50	2.1	2.9	-	-	1.8	5.0	6.5	390	1110	2150	5.1	4.9	4.7
	20+20+20	1.7	1.7	1.7	-	2.1	5.0	7.1	350	1020	2150	4.7	4.5	4.3
	20+20+25	1.5	1.5	1.9	-	2.1	5.0	7.1	350	1020	2150	4.7	4.5	4.3
	20+20+35	1.3	1.3	2.3	-	2.1	5.0	7.1	350	1020	2150	4.7	4.5	4.3
3 units	20+25+25	1.4	1.8	1.8	-	2.1	5.0	7.1	350	1020	2150	4.7	4.5	4.3
uriilo	20+25+35	1.3	1.6	2.2	-	2.1	5.0	7.1	350	1020	2150	4.7	4.5	4.3
	25+25+5	1.7	1.7	1.7	-	2.1	5.0	7.1	350	1020	2150	4.7	4.5	4.3
	25+25+35	1.5	1.5	2.1	-	2.1	5.0	7.1	350	1020	2150	4.7	4.5	4.3

	Heating			Hea	ting capa	city (kW)			Power	consumpt	ion (W)	Standa	ard currer	nt (A)
la da au		Inc	door unit	capacity ((kW)	Tota	al capacity	(kW)	Min.	Otan dand	Marr	0001/	0001/	0.401/
indoor	unit combination	Α	В	С	D	Min.	Standard	Max.	win.	Standard	Max.	220V	230V	240V
	20	3	-	-	-	1.0	3.0	3.7	320	780	1100	3.6	3.5	3.3
1	25	3.4	-	-	-	1.0	3.4	4.2	320	950	1240	4.4	4.2	4.0
unit	35	4.5	-	-	-	1.0	4.5	5.0	320	1270	1490	5.9	5.6	5.4
	50	5.8	-	-	-	1.0	5.8	6.5	320	1710	2310	7.9	7.6	7.3
	20+20	2.7	2.7	-	-	1.2	5.4	7.3	290	1050	2500	4.9	4.7	4.5
	20+25	2.6	3.3	-	-	1.2	5.9	7.3	290	1180	2500	5.5	5.2	5.0
	20+35	2.2	3.8	-	-	1.2	6.0	7.3	290	1200	2500	5.6	5.3	5.1
	20+50	1.7	4.3	-	-	1.2	6.0	7.3	290	1200	2500	5.6	5.3	5.1
2 units	25+25	3.0	3.0	-	-	1.2	6.0	7.3	290	1200	2500	5.6	5.3	5.1
units	25+35	2.5	3.5	-	-	1.2	6.0	7.3	290	1200	2500	5.6	5.3	5.1
	25+50	2.0	4.0	-	-	1.2	6.0	7.3	290	1200	2500	5.6	5.3	5.1
	35+35	3.0	3.0	-	-	1.2	6.0	7.3	290	1200	2500	5.6	5.3	5.1
	35+50	2.5	3.5	-	-	1.2	6.0	7.3	290	1200	2500	5.6	5.3	5.1
	20+20+20	2.57	2.57	2.57	-	1.4	6.0	7.5	270	1160	2500	5.4	5.1	4.9
	20+20+25	2.46	2.46	3.08	-	1.4	6.0	7.5	270	1160	2500	5.4	5.1	4.9
0	20+20+35	2.24	2.24	3.92	-	1.4	6.0	7.5	270	1160	2500	5.4	5.1	4.9
3 units	20+25+25	2.34	2.93	2.93	-	1.4	6.0	7.5	270	1160	2500	5.4	5.1	4.9
uiilo	20+25+35	2.10	2.63	3.68	-	1.4	6.0	7.5	270	1160	2500	5.4	5.1	4.9
	25+25+5	2.80	2.80	2.80	-	1.4	6.0	7.5	270	1160	2500	5.4	5.1	4.9
	25+25+35	2.47	2.47	3.46	-	1.4	6.0	7.5	270	1160	2500	5.4	5.1	4.9

(b) In case of indoor unit other models

	Cooling			Cooling	g capacity	(kW)			Power	consum	otion(W)	Stand	dard curre	ent(A)
Indoor	unit combination	Indo	oor unit c	apacity (k	άW)	Tota	al capacity	(kW)	Min.	Standard	Max.	220V	230V	240V
		Α	В	С	D	Min.	Standard	Max.						
	20	2.0	-	-	-	1.7	2.0	2.7	430	530	900	2.5	2.4	2.3
1	25	2.5	-	-	-	1.7	2.5	3.2	430	730	1070	3.4	3.3	3.1
unit	35	3.5	-	-	-	1.7	3.5	3.7	430	1120	1230	5.2	4.9	4.7
	50	5.0	-	-	-	1.7	5.0	5.3	430	1710	2000	7.9	7.5	7.2
	20+20	2.0	2.0	-	-	1.8	4.0	5.6	390	950	1800	4.4	4.2	4.0
	20+25	2.0	2.5	-	-	1.8	4.5	5.8	390	1110	1980	5.1	4.9	4.7
	20+35	1.8	3.2	-	-	1.8	5.0	6.3	390	1350	2150	6.2	5.9	5.7
	20+50	1.4	3.6	-	-	1.8	5.0	6.3	390	1350	2150	6.2	5.9	5.7
2 units	25+25	2.5	2.5	-	-	1.8	5.0	6.3	390	1350	2150	6.2	5.9	5.7
unito	25+35	2.1	2.9	-	-	1.8	5.0	6.3	390	1350	2150	6.2	5.9	5.7
	25+50	1.7	3.3	-	-	1.8	5.0	6.3	390	1350	2150	6.2	5.9	5.7
	35+35	2.5	2.5	-	-	1.8	5.0	6.3	390	1350	2150	6.2	5.9	5.7
	35+50	2.1	2.9	-	-	1.8	5.0	6.3	390	1350	2150	6.2	5.9	5.7
	20+20+20	1.7	1.7	1.7	-	2.1	5.0	6.9	350	1120	2150	5.1	4.9	4.7
	20+20+25	1.5	1.5	1.9	-	2.1	5.0	6.9	350	1120	2150	5.1	4.9	4.7
3	20+20+35	1.3	1.3	2.3	-	2.1	5.0	6.9	350	1120	2150	5.1	4.9	4.7
units	20+25+25	1.4	1.8	1.8	-	2.1	5.0	6.9	350	1120	2150	5.1	4.9	4.7
uriito	20+25+35	1.3	1.6	2.2	-	2.1	5.0	6.9	350	1120	2150	5.1	4.9	4.7
	25+25+25	1.7	1.7	1.7	-	2.1	5.0	6.9	350	1120	2150	5.1	4.9	4.7
	25+25+35	1.5	1.5	2.1	-	2.1	5.0	6.9	350	1120	2150	5.1	4.9	4.7

	Heating			Hea	iting capa	city (kW))		Power	consumpt	ion (W)	Standa	ard curre	nt (A)
Indoor	unit combination	Inc	loor unit	capacity (kW)	Tota	I capacity	(kW)	Min.	Standard	Max.	220V	230V	240V
maoor	unit combination	Α	В	С	D	Min.	Standard	Max.	win.	Standard	wax.	22UV	230V	240 V
	20	3	-	-	-	1.0	3.0	3.5	320	970	1100	4.5	4.3	4.1
1	25	3.4	-	-	-	1.0	3.4	4.0	320	1140	1240	5.3	5.1	4.8
unit	35	4.5	-	-	-	1.0	4.5	4.8	320	1480	1490	6.9	6.6	6.3
	50	5.8	-	-	-	1.0	5.8	6.1	320	1780	2310	8.3	7.9	7.6
	20+20	2.7	2.7	-	-	1.2	5.4	7.0	290	1350	2500	6.3	6.0	5.7
	20+25	2.6	3.3	-	-	1.2	5.9	7.0	290	1480	2500	6.9	6.6	6.3
	20+35	2.2	3.8			1.2	6.0	7.0	290	1500	2500	7.0	6.7	6.4
0	20+50	1.7	4.3	-	-	1.2	6.0	7.0	290	1500	2500	7.0	6.7	6.4
2 units	25+25	3.0	3.0	-	-	1.2	6.0	7.0	290	1500	2500	7.0	6.7	6.4
unito	25+35	2.5	3.5	-	-	1.2	6.0	7.0	290	1500	2500	7.0	6.7	6.4
	25+50	2.0	4.0	-	-	1.2	6.0	7.0	290	1500	2500	7.0	6.7	6.4
	35+35	3.0	3.0	-	-	1.2	6.0	7.0	290	1500	2500	7.0	6.7	6.4
	35+50	2.5	3.5	-	-	1.2	6.0	7.0	290	1500	2500	7.0	6.7	6.4
	20+20+20	2.0	2.0	2.0	-	1.4	6.0	7.3	270	1300	2500	6.0	5.8	5.5
	20+20+25	1.8	1.8	2.3	-	1.4	6.0	7.3	270	1300	2500	6.0	5.8	5.5
3	20+20+35	1.6	1.6	2.8	-	1.4	6.0	7.3	270	1300	2500	6.0	5.8	5.5
units	20+25+25	1.7	2.1	2.1	-	1.4	6.0	7.3	270	1300	2500	6.0	5.8	5.5
unito	20+25+35	1.5	1.9	2.6	-	1.4	6.0	7.3	270	1300	2500	6.0	5.8	5.5
	25+25+25	2.0	2.0	2.0	-	1.4	6.0	7.3	270	1300	2500	6.0	5.8	5.5
	25+25+35	1.8	1.8	2.5	-	1.4	6.0	7.3	270	1300	2500	6.0	5.8	5.5

(2) Model SCM60ZS-W (a) In case of indoor unit SRK-ZSX-W models only

	Cooling			Coolir	ng capaci	ty (kW)			Power	consump	tion(W)	Stand	ard curre	nt(A)
Indoor	unit combination	Inc	door unit	capacity	(kW)	Tota	I capacity	(kW)	Min.	Standard	Max.	220V	230V	240V
ilidool	unit combination	Α	В	С	D	Min.	Standard	Max.	IVIIII.	Standard	iviax.	2204	2301	240 V
	20	2.0	-	-	-	1.7	2.0	2.8	430	500	950	2.4	2.3	2.2
	25	2.5	-	-	-	1.7	2.5	3.4	430	680	1080	3.2	3.1	3.0
1 unit	35	3.5	-	-	-	1.7	3.5	3.9	430	1010	1240	4.7	4.5	4.3
	50	5.0	-	-	-	1.7	5.0	6.1	430	1530	2100	7.0	6.7	6.4
	60	6.0	-	-	-	1.7	6.0	6.3	430	1880	2280	8.6	8.3	7.9
	20+20	2.0	2.0	-	-	1.8	4.0	5.7	390	750	1750	3.5	3.3	3.2
	20+25	2.0	2.5	-	-	1.8	4.5	5.9	390	990	1910	4.6	4.4	4.2
•	20+35	2.0	3.5	-	-	1.8	5.5	6.7	390	1320	2200	6.1	5.8	5.6
	20+50	1.7	4.3	-	-	1.8	6.0	6.9	390	1560	2280	7.2	6.9	6.6
•	20+60	1.5	4.5	-	-	1.8	6.0	6.9	390	1560	2280	7.2	6.9	6.6
	25+25	2.5	2.5	-	-	1.8	5.0	6.5	390	1110	2150	5.1	4.9	4.7
2	25+35	2.5	3.5	-	-	1.8	6.0	6.9	390	1560	2280	7.2	6.9	6.6
units	25+50	2.0	4.0	-	-	1.8	6.0	6.9	390	1560	2280	7.2	6.9	6.6
	25+60	1.8	4.2	-	-	1.8	6.0	6.9	390	1560	2280	7.2	6.9	6.6
	35+35	3.0	3.0	-	-	1.8	6.0	6.9	390	1560	2280	7.2	6.9	6.6
	35+50	2.5	3.5	-	-	1.8	6.0	6.9	390	1560	2280	7.2	6.9	6.6
	35+60	2.2	3.8	-	-	1.8	6.0	6.9	390	1560	2280	7.2	6.9	6.6
	50+50	3.0	3.0	-	-	1.8	6.0	6.9	390	1560	2280	7.2	6.9	6.6
	50+60	2.7	3.3	-	-	1.8	6.0	6.9	390	1560	2280	7.2	6.9	6.6
	20+20+20	2.0	2.0	2.0	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6
	20+20+25	1.8	1.8	2.3	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6
	20+20+35	1.6	1.6	2.8	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6
	20+20+50	1.3	1.3	3.3	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6
	20+20+60	1.2	1.2	3.6	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6
	20+25+25	1.7	2.1	2.1	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6
•	20+25+35	1.5	1.9	2.6	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6
	20+25+50	1.3	1.6	3.2	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6
3	20+25+60	1.1	1.4	3.4	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6
units	20+35+35	1.3	2.3	2.3	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6
	20+35+50	1.1	2.0	2.9	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6
	25+25+25	2.0	2.0	2.0	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6
	25+25+35	1.8	1.8	2.5	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6
	25+25+50	1.5	1.5	3.0	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6
	25+25+60	1.4	1.4	3.3	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6
	25+35+35	1.6	2.2	2.2	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6
	25+35+50	1.4	1.9	2.7	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6
	35+35+35	2.0	2.0	2.0	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6

	Heating			Heatir	ng capaci	ty (kW)			Power	consumpt	ion (W)	Standa	ard currer	nt (A)
Indoor	unit combination	Ind	oor unit c	apacity (I	kW)	Total	capacity (kW)	Min.	Standard	Max.	220V	230V	240V
illuooi	unit combination	Α	В	С	D	Min.	Standard	Max.	IVIIII.	Standard	wax.	220V	230 V	240V
	20	3.0	-	-	-	1.0	3.0	3.7	320	780	1100	3.6	3.5	3.3
	25	3.4	-	-	-	1.0	3.4	4.2	320	950	1240	4.4	4.2	4.0
1 unit	35	4.5	-	-	-	1.0	4.5	5.0	320	1270	1490	5.9	5.6	5.4
u	50	5.8	-	-	-	1.0	5.8	6.5	320	1710	2310	7.9	7.6	7.3
	60	6.8	-	-	-	1.0	6.8	7.3	320	2040	2660	9.5	9.1	8.7
	20+20	2.7	2.7	-	-	1.2	5.4	7.3	290	1050	2100	4.9	4.7	4.5
	20+25	2.6	3.3	-	-	1.2	5.9	7.5	290	1180	2550	5.5	5.2	5.0
	20+35	2.4	4.2	-	-	1.2	6.6	7.6	290	1360	2800	6.3	6.0	5.8
	20+50	1.9	4.9	-	-	1.2	6.8	7.6	290	1440	2800	6.7	6.4	6.1
•	20+60	1.7	5.1	-	-	1.2	6.8	7.6	290	1440	2800	6.7	6.4	6.1
	25+25	3.2	3.2	-	-	1.2	6.4	7.6	290	1310	2800	6.1	5.8	5.6
2	25+35	2.8	4.0	-	-	1.2	6.8	7.6	290	1440	2800	6.7	6.4	6.1
units	25+50	2.3	4.5	-	-	1.2	6.8	7.6	290	1440	2800	6.7	6.4	6.1
	25+60	2.0	4.8	-	-	1.2	6.8	7.6	290	1440	2800	6.7	6.4	6.1
	35+35	3.4	3.4	-	-	1.2	6.8	7.6	290	1440	2800	6.7	6.4	6.1
	35+50	2.8	4.0	-	-	1.2	6.8	7.6	290	1440	2800	6.7	6.4	6.1
	35+60	2.5	4.3	-	-	1.2	6.8	7.6	290	1440	2800	6.7	6.4	6.1
	50+50	3.4	3.4	-	-	1.2	6.8	7.6	290	1440	2800	6.7	6.4	6.1
	50+60	3.1	3.7	-	-	1.2	6.8	7.6	290	1440	2800	6.7	6.4	6.1
	20+20+20	2.3	2.3	2.3	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0
	20+20+25	2.1	2.1	2.6	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0
•	20+20+35	1.8	1.8	3.2	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0
	20+20+50	1.5	1.5	3.8	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0
	20+20+60	1.4	1.4	4.1	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0
	20+25+25	1.9	2.4	2.4	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0
•	20+25+35	1.7	2.1	3.0	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0
	20+25+50	1.4	1.8	3.6	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0
3	20+25+60	1.3	1.6	3.9	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0
units	20+35+35	1.5	2.6	2.6	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0
	20+35+50	1.3	2.3	3.2	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0
	25+25+25	2.3	2.3	2.3	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0
	25+25+35	2.0	2.0	2.8	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0
	25+25+50	1.7	1.7	3.4	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0
	25+25+60	1.5	1.5	3.7	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0
	25+35+35	1.8	2.5	2.5	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0
	25+35+50	1.5	2.2	3.1	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0
	35+35+35	2.3	2.3	2.3	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0

(b) In case of indoor unit other models

	Cooling			Cod	oling cap	acity (kW	')		Power	consump	tion(W)	Stand	ard curre	ent(A)
Indoor	unit combination	Ind	oor unit o	apacity (kW)	Tota	I capacity	(kW)	Min.	Standard	Max.	220V	230V	240V
illuooi	unit combination	Α	В	С	D	Min.	Standard	Max.	IVIIII.	Standard	wax.	2200	230 V	240V
	20	2.0	-	-	-	1.7	2.0	2.7	430	570	950	2.7	2.6	2.5
1	25	2.5	-	-	-	1.7	2.5	3.2	430	760	1080	3.6	3.4	3.3
unit	35	3.5	-	-	-	1.7	3.5	3.7	430	1150	1240	5.3	5.1	4.9
	50	5.0	-	-	-	1.7	5.0	5.8	430	1860	2100	8.5	8.2	7.8
	60	6.0	-	-	-	1.7	6.0	6.1	430	2140	2280	9.8	9.4	9.0
	20+20	2.0	2.0	-	-	1.8	4.0	5.6	390	800	1750	3.7	3.5	3.4
	20+25	2.0	2.5	-	-	1.8	4.5	5.8	390	1050	1910	4.8	4.6	4.4
	20+35	2.0	3.5	-	-	1.8	5.5	6.1	390	1620	2110	7.4	7.1	6.8
	20+50	1.7	4.3	-	-	1.8	6.0	6.7	390	1930	2280	8.9	8.5	8.1
	20+60	1.5	4.5	-	-	1.8	6.0	6.7	390	1930	2280	8.9	8.5	8.1
	25+25	2.5	2.5	-	-	1.8	5.0	6.1	390	1340	2110	6.2	5.9	5.6
2	25+35	2.5	3.5	-	-	1.8	6.0	6.7	390	1930	2280	8.9	8.5	8.1
units	25+50	2.0	4.0	-	-	1.8	6.0	6.7	390	1930	2280	8.9	8.5	8.1
	25+60	1.8	4.2	-	-	1.8	6.0	6.7	390	1930	2280	8.9	8.5	8.1
Ī	35+35	3.0	3.0	-	-	1.8	6.0	6.7	390	1930	2280	8.9	8.5	8.1
	35+50	2.5	3.5	-	-	1.8	6.0	6.7	390	1930	2280	8.9	8.5	8.1
Ī	35+60	2.2	3.8	-	-	1.8	6.0	6.7	390	1930	2280	8.9	8.5	8.1
	50+50	3.0	3.0	-	-	1.8	6.0	6.7	390	1930	2280	8.9	8.5	8.1
	50+60	2.7	3.3	-	-	1.8	6.0	6.7	390	1930	2280	8.9	8.5	8.1
	20+20+20	2.0	2.0	2.0	-	2.1	6.0	7.3	350	1430	2280	6.6	6.3	6.0
	20+20+25	1.8	1.8	2.3	-	2.1	6.0	7.3	350	1430	2280	6.6	6.3	6.0
	20+20+35	1.6	1.6	2.8	-	2.1	6.0	7.3	350	1430	2280	6.6	6.3	6.0
	20+20+50	1.3	1.3	3.3	-	2.1	6.0	7.3	350	1430	2280	6.6	6.3	6.0
	20+20+60	1.2	1.2	3.6	-	2.1	6.0	7.3	350	1430	2280	6.6	6.3	6.0
	20+25+25	1.7	2.1	2.1	-	2.1	6.0	7.3	350	1430	2280	6.6	6.3	6.0
	20+25+35	1.5	1.9	2.6	-	2.1	6.0	7.3	350	1430	2280	6.6	6.3	6.0
Ī	20+25+50	1.3	1.6	3.2	-	2.1	6.0	7.3	350	1430	2280	6.6	6.3	6.0
3	20+25+60	1.1	1.4	3.4	-	2.1	6.0	7.3	350	1430	2280	6.6	6.3	6.0
units	20+35+35	1.3	2.3	2.3	-	2.1	6.0	7.3	350	1430	2280	6.6	6.3	6.0
	20+35+50	1.1	2.0	2.9	-	2.1	6.0	7.3	350	1430	2280	6.6	6.3	6.0
	25+25+25	2.0	2.0	2.0	-	2.1	6.0	7.3	350	1430	2280	6.6	6.3	6.0
	25+25+35	1.8	1.8	2.5	-	2.1	6.0	7.3	350	1430	2280	6.6	6.3	6.0
Ī	25+25+50	1.5	1.5	3.0	-	2.1	6.0	7.3	350	1430	2280	6.6	6.3	6.0
	25+25+60	1.4	1.4	3.3	-	2.1	6.0	7.3	350	1430	2280	6.6	6.3	6.0
Ī	25+35+35	1.6	2.2	2.2	-	2.1	6.0	7.3	350	1430	2280	6.6	6.3	6.0
	25+35+50	1.4	1.9	2.7	-	2.1	6.0	7.3	350	1430	2280	6.6	6.3	6.0
	35+35+35	2.0	2.0	2.0	-	2.1	6.0	7.3	350	1430	2280	6.6	6.3	6.0

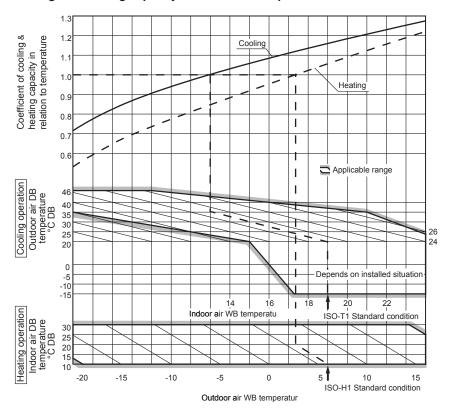
	Heating			Heati	ng capac	ity (kW)			Power	consumpt	ion (W)	Standa	ard curre	nt (A)
Indoor	unit combination	In	door unit	capacity	(kW)	Tota	l capacity	(kW)	Min.	Standard	Max.	220V	230V	240V
iiiuooi	unit combination	Α	В	С	D	Min.	Standard	Max.	IVIIII.	Statiuaru	wax.	220V	2301	240 V
	20	3.0	-	-	-	1.0	3.0	3.5	320	970	1330	4.5	4.3	4.1
1	25	3.4	-	-	-	1.0	3.4	4.0	320	1140	1510	5.3	5.1	4.8
unit	35	4.5	-	-	-	1.0	4.5	4.8	320	1480	1790	6.9	6.6	6.3
	50	5.8	-	-	-	1.0	5.8	6.1	320	1910	2310	8.9	8.5	8.1
	60	6.8	-	-	-	1.0	6.8	7.0	320	2200	2660	10.2	9.8	9.4
	20+20	2.7	2.7	-	-	1.2	5.4	7.0	290	1250	2100	5.8	5.5	5.3
	20+25	2.6	3.3	-	-	1.2	5.9	7.2	290	1380	2550	6.4	6.1	5.9
	20+35	2.4	4.2	-	-	1.2	6.6	7.3	290	1560	2800	7.2	6.9	6.6
	20+50	1.9	4.9	-	-	1.2	6.8	7.3	290	1640	2800	7.6	7.3	7.0
	20+60	1.7	5.1	-	-	1.2	6.8	7.3	290	1640	2800	7.6	7.3	7.0
	25+25	3.2	3.2	-	-	1.2	6.4	7.3	290	1510	2800	7.0	6.7	6.4
2	25+35	2.8	4.0	-	-	1.2	6.8	7.3	290	1640	2800	7.6	7.3	7.0
units	25+50	2.3	4.5	-	-	1.2	6.8	7.3	290	1640	2800	7.6	7.3	7.0
	25+60	2.0	4.8	-	-	1.2	6.8	7.3	290	1640	2800	7.6	7.3	7.0
	35+35	3.4	3.4	-	-	1.2	6.8	7.3	290	1640	2800	7.6	7.3	7.0
	35+50	2.8	4.0	-	-	1.2	6.8	7.3	290	1640	2800	7.6	7.3	7.0
	35+60	2.5	4.3	-	-	1.2	6.8	7.3	290	1640	2800	7.6	7.3	7.0
	50+50	3.4	3.4	-	-	1.2	6.8	7.3	290	1640	2800	7.6	7.3	7.0
	50+60	3.1	3.7	-	-	1.2	6.8	7.3	290	1640	2800	7.6	7.3	7.0
	20+20+20	2.3	2.3	2.3	-	1.4	6.8	7.6	270	1500	2800	7.0	6.7	6.4
	20+20+25	2.1	2.1	2.6	-	1.4	6.8	7.6	270	1500	2800	7.0	6.7	6.4
	20+20+35	1.8	1.8	3.2	-	1.4	6.8	7.6	270	1500	2800	7.0	6.7	6.4
	20+20+50	1.5	1.5	3.8	-	1.4	6.8	7.6	270	1500	2800	7.0	6.7	6.4
	20+20+60	1.4	1.4	4.1	-	1.4	6.8	7.6	270	1500	2800	7.0	6.7	6.4
	20+25+25	1.9	2.4	2.4	-	1.4	6.8	7.6	270	1500	2800	7.0	6.7	6.4
	20+25+35	1.7	2.1	3.0	-	1.4	6.8	7.6	270	1500	2800	7.0	6.7	6.4
	20+25+50	1.4	1.8	3.6	-	1.4	6.8	7.6	270	1500	2800	7.0	6.7	6.4
3	20+25+60	1.3	1.6	3.9	-	1.4	6.8	7.6	270	1500	2800	7.0	6.7	6.4
units	20+35+35	1.5	2.6	2.6	-	1.4	6.8	7.6	270	1500	2800	7.0	6.7	6.4
	20+35+50	1.3	2.3	3.2	-	1.4	6.8	7.6	270	1500	2800	7.0	6.7	6.4
	25+25+25	2.3	2.3	2.3	-	1.4	6.8	7.6	270	1500	2800	7.0	6.7	6.4
	25+25+35	2.0	2.0	2.8	-	1.4	6.8	7.6	270	1500	2800	7.0	6.7	6.4
	25+25+50	1.7	1.7	3.4	-	1.4	6.8	7.6	270	1500	2800	7.0	6.7	6.4
	25+25+60	1.5	1.5	3.7	-	1.4	6.8	7.6	270	1500	2800	7.0	6.7	6.4
	25+35+35	1.8	2.5	2.5	-	1.4	6.8	7.6	270	1500	2800	7.0	6.7	6.4
	25+35+50	1.5	2.2	3.1	-	1.4	6.8	7.6	270	1500	2800	7.0	6.7	6.4
	35+35+35	2.3	2.3	2.3	-	1.4	6.8	7.6	270	1500	2800	7.0	6.7	6.4

6. SELECTION CHARTS

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

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

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



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

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

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

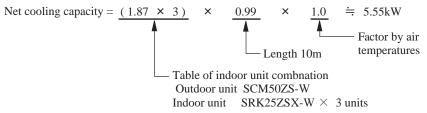
(3) Correction relative to frosting on outdoor heat exchanger during heating

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

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

How to obtain the cooling and heating capacity

Example : The net cooling capacity of the model SCM50ZS-W (SRK25ZSX-W : 3 units) with the piping length of 10m, indoor wet-bulb temperature at 19.0° C and outdoor dry-bulb temperature 35° C is



7. TECHNICAL INFORMATION

(1) Model SCM50ZS-W

formation to identify the model(s) to door unit model name utdoor unit model name unction(indicate if present) poling parting		X-W × 3units	o: If function includes heating: Indicate information relates to. Indicated val heating season at a time. Include a Average(mandatory)	ues should rela	te to one	n 'Averaç
unction(indicate if present) poling		-W	<u></u>		ng seaso	n 'Averaç
poling	Yes		Average(mandatory)	Vac		
poling	Yes		I I Average (mandatory)			
•	res					
eating	Yes		Warmer(if designated)	Yes No		
	res		Colder(if designated)	NO		
em	symbol v	value unit	Item	symbol	value	class
esign load	5,55.	varao arm	Seasonal efficiency and energy efficiency			0.000
poling	Pdesignc	5.00 kW	cooling	SEER	8.80	A++-
eating / Average	Pdesignh	4.70 kW	heating / Average	SCOP/A	4.60	A++
eating / Warmer	Pdesignh	6.40 kW	heating / Warmer	SCOP/W	6.20	A++-
eating / Colder	Pdesignh	- kW	heating / Colder	SCOP/C	-	-
						unit
eclared capacity at outdoor temperat		4 = 0	Back up heating capacity at outdoo			7
eating / Average (-10°C)	Pdh	4.70 kW	heating / Average (-10°C)	elbu	0	kW
eating / Warmer (2°C)	Pdh	6.40 kW	heating / Warmer (2°C)	elbu	0	kW
eating / Colder (-22°C)	Pdh	- kW	heating / Colder (-22°C)	elbu	-	kW
eclared capacity for cooling, at indoo	or temperature	27(19)°C and	Declared energy efficiency ratio, at	indoor tempera	ture 27/10	0)°C and
utdoor temperature Tj	or temperature	. 27 (13) O and	outdoor temperature Tj	mador tempera	tuic 27 (i.	o, o ana
=35°C	Pdc	5.00 kW	Ti=35°C	EERd	5.00	7-
=30°C	Pdc	3.65 kW	Tj=30°C	EERd	7.60	1-
=25°C	Pdc	2.69 kW	Ti=25°C	EERd	12.90	1-
=20°C	Pdc	2.60 kW	Tj=20°C	EERd	14.20	1-
				-		•
eclared capacity for heating / Averag		ndoor	Declared coefficient of performance		son, at inc	door
mperature 20°C and outdoor temper			temperature 20°C and outdoor temp			_
=-7°C	Pdh	3.98 kW	Tj=-7°C	COPd	3.40	
=2°C	Pdh	2.49 kW	Tj=2°C	COPd	4.37	_1-
=7°C	Pdh	1.57 kW	Tj=7°C	COPd	5.80	_1-
=12°C	Pdh	1.74 kW	Tj=12℃	COPd	7.60	
=bivalent temperature	Pdh	4.70 kW	Tj=bivalent temperature	COPd	2.65	_ -
operating limit	Pdh	4.13 kW	Tj=operating limit	COPd	2.35	<u> </u> -
			Destant a series of a series o	/ / / / /		1
eclared capacity for heating / Warme		ndoor	Declared coefficient of performance		son, at inc	door
mperature 20°C and outdoor temper	Pdh	6.40 kW	temperature 20°C and outdoor temp	COPd	3.30	-
=2°C =7°C	Pdh	6.40 kW 4.07 kW	Tj=2°C Tj=7°C	COPa	5.72	£
=7 C =12°C	Pdh	1.74 kW	Ti=12°C	COPd	7.60	-
= 12 C =bivalent temperature	Pdh	6.40 kW	Tj=12 C	COPd	3.30	
=blvalent temperature =operating limit	Pdh	4.13 kW	Tj=blvalent temperature Tj=operating limit	COPd	2.35	-
=operating infin	Full	4.13 1.10	r j=operating limit	COFU	2.33	Γ
eclared capacity for heating / Colder	season at inc	door	Declared coefficient of performance	/ Colder seaso	n at indo	or
mperature 20°C and outdoor temper			temperature 20°C and outdoor temp		.,	
=-7°C	Pdh	- kW	Tj=-7°C	COPd	-	7-
=2°C	Pdh	- kW	Tj=2°C	COPd	-	1 -
=7°C	Pdh	- kW	l l⊤í=7°C	COPd	-	1 -
=12°C	Pdh	- kW	l Ti=12℃	COPd	-	1.
=bivalent temperature	Pdh	- kW	Tj=bivalent temperature	COPd	-	-
=operating limit	Pdh	- kW	Tj=operating limit	COPd	-	-
=-15°C	Pdh	- kW	Tj=-15°C	COPd	-	1-
		1				
valent temperature			Operating limit temperature			
eating / Average	Tbiv	-10 ℃	heating / Average	Tol	-15	°C
eating / Warmer	Tbiv	2 ℃	heating / Warmer	Tol	-15	°C
eating / Colder	Tbiv	- °C	heating / Colder	Tol	-	°C
ycling interval capacity			Cycling interval efficiency			
r cooling	Pcycc	- kW	for cooling	EERcyc		
r heating	Pcych	- kW	for heating	COPcyc	-	<u> </u>
and dation as officient			Demodelics			
egradation coefficient	Cdc F	0.25	Degradation coefficient	C -11-	0.05	7
poling	Cdc	0.25 -	heating	Cdh	0.25	1-
ectric power input in power modes o	ther than 'acti	ve mode'	Annual electricity consumption			
f mode	Poff	8 W	cooling	Qce	199	∃kWh/a
andby mode	Psb	8 W	heating / Average	Qhe	1430	kWh/a
ermostat-off mode	Pto(cooling)	25 W	heating / Warmer	Qhe	1445	kWh/a
	Pto(heating)	35 W	heating / colder	Qhe	-	kWh/a
ankcase heater mode	Pck	0 W				
	- '	- 1				
apacity control(indicate one of three	options)		Other items			
	. ,		Sound power level(indoor)	Lwa	53	dB(A)
			Sound power level(outdoor)	Lwa	62	dB(A)
ced	No		Global warming potential	GWP	675	kgČÓ2
aged	No		Rated air flow(indoor)	-	678	m3/h
agou	Yes		Rated air flow(outdoor)	<u>-</u>	2460	m3/h
ariable						
•						
•	•	address of the	nanufacturer or of its authorised represer	ntative.		
ontact details for obtaining	Name and		nanufacturer or of its authorised represer tioning Europe, Ltd.	ntative.		

Information to identify the model(s) to		If function includes heating: Indicate t	
Indoor unit model name Outdoor unit model name	SRK25ZSX-W + SRK25ZSX-W SCM50ZS-W	information relates to. Indicated value heating season at a time. Include at least	
Function(indicate if present) cooling	Yes	Average(mandatory) Warmer(if designated)	Yes Yes
heating	Yes	Colder(if designated)	No
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	a contact (in a congruence)	
Item	symbol value unit	Item (6)	symbol value class
Design load cooling	Pdesignc 5.00 kW	Seasonal efficiency and energy efficiency cooling	ency class SEER 8.60 A+++
heating / Average	Pdesignh 4.80 kW	heating / Average	SCOP/A 4.70 A++
heating / Warmer	Pdesignh 6.40 kW	heating / Warmer	SCOP/W 6.40 A+++
heating / Colder	Pdesignh - kW	heating / Colder	SCOP/C
Declared capacity at outdoor tempera	ature Tdesignh	Back up heating capacity at outdoor t	unit temperature Tdesignh
heating / Average (-10°C)	Pdh 4.80 kW	heating / Average (-10°C)	elbu 0 kW
heating / Warmer (2°C)	Pdh 6.40 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 indo	or temperature 27(19)°C and	Declared energy efficiency ratio, at in	idoor temperature 27(19)°C and
outdoor temperature Tj	or temperature 27 (13) & and	outdoor temperature Tj	door temperature 27 (13) 6 and
Tj=35°C	Pdc 5.00 kW	Tj=35°C	EERd 4.50 -
Tj=30°C	Pdc 3.60 kW	Tj=30°C	EERd 6.90 -
Tj=25°C Tj=20°C	Pdc 2.60 kW Pdc 2.65 kW	Tj=25°C Tj=20°C	EERd 12.00 - EERd 14.30 -
1,-20 0	1 UC 2.03 KVV	1 -20 0	ELINU 14.30 -
Declared capacity for heating / Avera		Declared coefficient of performance /	
temperature 20°C and outdoor temper		temperature 20°C and outdoor tempe	
Tj=-7°C Tj=2°C	Pdh 4.10 kW Pdh 2.65 kW	Tj=-7°C Ti=2°C	COPd 3.15 - COPd 4.58 -
Tj=2 C Tj=7°C	Pdh 1.65 kW		COPd 6.00 -
Tj=12°C	Pdh 1.95 kW	Tj=12°C	COPd 8.00 -
Tj=bivalent temperature	Pdh 4.80 kW	Tj=bivalent temperature	COPd 2.65 -
Tj=operating limit	Pdh 4.35 kW	Tj=operating limit	COPd 2.40 -
Declared capacity for heating / Warm	er season, at indoor	Declared coefficient of performance /	Warmer season, at indoor
temperature 20°C and outdoor tempe		temperature 20°C and outdoor tempe	
Tj=2°C	Pdh 6.40 kW	Tj=2°C	COPd 3.10 -
Tj=7°C	Pdh 4.05 kW	Tj=7°C	COPd 5.85 -
Tj=12°C Tj=bivalent temperature	Pdh 1.95 kW Pdh 6.40 kW	Tj=12°C Tj=bivalent temperature	COPd 8.00 - COPd 3.10 -
Tj=straterit temperature Tj=operating limit	Pdh 4.35 kW	Tj=operating limit	COPd 2.40 -
	<u> </u>	, , , ,	
Declared capacity for heating / Colde temperature 20°C and outdoor 20°C and 00°C and 0		Declared coefficient of performance / temperature 20°C and outdoor temperature	
Tj=-7°C	Pdh - kW	Ti=-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 Tj=operating limit	Pdh - kW Pdh - kW	Tj=bivalent temperature Tj=operating limit	COPd
Tj=-15°C	Pdh - kW	Tj=-0perating infinit	COPd
-,			
Bivalent temperature	Tbiv -10 °C	Operating limit temperature	Tol. 45 %
heating / Average heating / Warmer	Tbiv 2 °C	heating / Average heating / Warmer	Tol
heating / Colder	Tbiv - ℃	heating / Colder	Tol - ℃
<u> </u>		' <u> </u>	
Cycling interval capacity for cooling	Pcycc - kW	Cycling interval efficiency for cooling	EERcyc
for heating	Pcych - kW	for heating	COPcyc
,			
Degradation coefficient	Cdc 0.25 -	Degradation coefficient	Cdh 0.25 -
cooling	Cdc 0.25 -	heating	Oun 0.23 -
Electric power input in power modes		Annual electricity consumption	
off mode	Poff 6 W	cooling	Qce 204 kWh/a
standby mode thermostat-off mode	Psb 6 W Pto(cooling) 20 W	heating / Average heating / Warmer	Qhe 1430 kWh/a Qhe 1400 kWh/a
monitorial on mode	Pto(cooling) 20 VV Pto(heating) 30 W	heating / warmer	Qhe - kWh/a
crankcase heater mode	Pck 0 W	<u> </u>	
Consider control (in the contr	- antional	1 Other items	
Capacity control(indicate one of three	e options)	Other items Sound power level(indoor)	Lwa 55 dB(A)
		Sound power level(indoor)	Lwa 62 dB(A)
fixed	No	Global warming potential	GWP 675 kgCO2ed
staged	No	Rated air flow(indoor)	- 732 m3/h
variable	Yes	Rated air flow(outdoor)	- 2460 m3/h
Contact details for obtaining	Name and address of the man	nufacturer or of its authorised representa	ative
more information Mitsub	oishi Heavy Industries Air-Condition	ning Europe, Ltd.	
5 The	Square, Stockley Park, Uxbridge,	Middlesex,UB11 1ET, United kingdom	

(2) Model SCM60ZS-W

nformation to identify the model(s) t	to which the information rel	es to: If function includes heating: Ind	licate the heating season the
ndoor unit model name	SRK20ZSX-W × 3uni		
Outdoor unit model name	SCM60ZS-W	heating season at a time. Inclu	de at least the heating season 'Avera
Superfice (in disease if			V
Function(indicate if present)	Yes	Average(mandatory)	Yes
cooling neating	Yes	Warmer(if designated) Colder(if designated)	Yes No
leating	res	Colder(ii designated)	NO
tem	symbol value u	t Item	symbol value class
Design load	ojinoon valae a	Seasonal efficiency and energy	
cooling	Pdesignc 6.00 k		SEER 8.80 A++
neating / Average	Pdesignh 4.70 k	heating / Average	SCOP/A 4.60 A+
neating / Warmer	Pdesignh 6.40 k	heating / Warmer	SCOP/W 6.20 A++
neating / Colder	Pdesignh - k	heating / Colder	SCOP/C
		1	unit
Declared capacity at outdoor tempe		Back up heating capacity at ou	
neating / Average (-10°C)	Pdh 4.70 k	0 0 1	elbu 0 kW
leating / Warmer (2°C) leating / Colder (-22°C)	Pdh 6.40 k Pdh - k	• • • • • • • • • • • • • • • • • • • •	elbu 0 kW elbu - kW
leating / Colder (-22 C)	ruii - K	rieating / Colder (-22 C)	elbu - KVV
Declared capacity for cooling, at ind	oor temperature 27(19)°C a	d Declared energy efficiency ratio	o, at indoor temperature 27(19)°C and
outdoor temperature Tj	oor tomporatare 27 (10) o c	outdoor temperature Tj	, at mader temperature 27 (10) 6 and
;i=35°C	Pdc 6.00 k		EERd 4.60 -
;=30°C	Pdc 4.20 k		EERd 7.00 -
i=25°C	Pdc 2.69 k	, · · ·	EERd 12.75 -
; =20°C	Pdc 2.60 k		EERd 14.20 -
eclared capacity for heating / Aver			ance / Average season, at indoor
emperature 20°C and outdoor temp	perature Tj	temperature 20°C and outdoor	temperature Tj
j=-7°C	Pdh 3.98 k		COPd 3.40 -
j=2°C	Pdh 2.49 k		COPd 4.37 -
j=7°C	Pdh 1.57 k	'	COPd 5.80 -
j=12°C	Pdh 1.74 k	117	COPd 7.60 -
j=bivalent temperature	Pdh 4.70 k	,	COPd 2.65 -
j=operating limit	Pdh 4.13 k	Tj=operating limit	COPd 2.35 -
eclared capacity for heating / Warr	mor access, at indeer	Declared coefficient of perform	ance / Warmer season, at indoor
emperature 20°C and outdoor temp		temperature 20°C and outdoor	
j=2°C	Pdh 6.40 k		COPd 3.30 -
j=2 ℃ j=7°C	Pdh 4.07 k		COPd 5.72 -
j=7	Pdh 1.74 k	117	COPd 7.60 -
j=12 0 j=bivalent temperature	Pdh 6.40 k	117	COPd 3.30 -
j=breach temperature j=operating limit	Pdh 4.13 k	,	COPd 2.35 -
mperature 20°C and outdoor temp j=-7°C j=2°C j=7°C j=12°C	Pdh - k	Tj=2°C Tj=7°C	COPd
; j=bivalent temperature	Pdh - k	Tj=bivalent temperature	COPd
j=operating limit	Pdh - k	Tj=operating limit	COPd
, j=-15℃	Pdh - k		COPd
			·
ivalent temperature	TI: 40 0	Operating limit temperature	T. I. 15 190
eating / Average	Tbiv -10 °C	heating / Average	Tol -15 °C
eating / Warmer	Tbiv 2 °C	heating / Warmer	Tol -15 °C
eating / Colder	Tbiv - °0	heating / Colder	Tol - °C
ycling interval capacity		Cycling interval efficiency	
r cooling	Pcycc - k	, , ,	EERcyc
r heating	Pcych - k		COPcyc
J	-2		·
egradation coefficient	_	Degradation coefficient	
poling	Cdc 0.25 -	heating	Cdh 0.25 -
potrio pouvor insut in a successiva	other they leather would	Amount describer	
lectric power input in power modes ff mode		Annual electricity consumption cooling	Qce 239 kWh/a
andby mode	Poff 8 V Psb 8 V	heating / Average	Qce 239 KWN/a Qhe 1430 kWh/a
ermostat-off mode	Pto(cooling) 25 V	heating / Warmer	Qhe 1430 kWh/a
out on mode	Pto(cooling) 25 V	heating / volder	Qhe - kWh/a
rankcase heater mode	Pck 0 V	insamily / oblider	~ - KVVIV6
	V V		
apacity control(indicate one of thre	ee options)	Other items Sound power level(indoor)	Lwa 53 dB(A)
ved	No	Sound power level(outdoor)	Lwa 62 dB(A) GWP 675 kgCO
xed	No No	Global warming potential	- v
taged ariable		Rated air flow(outdoor)	
anabie	162	Rateu ali ilow(outdoor)	- 2460 m3/h
ontact details for obtaining	Name and address of	ne manufacturer or of its authorised repr	resentative
			555. IIdii v 5.
			gdom
	,,,,, .	. g.,a,	<i>y</i>
	ıbishi Heavy Industries Air-	Rated air flow(outdoor) ne manufacturer or of its authorised reproditioning Europe, Ltd. ridge, Middlesex,UB11 1ET, United king	resentative.

Information to identify the model(s)	to which the information relates to:	If function includes heating: Indicat	e the heating season the
Indoor unit model name	SRK35ZSX-W + SRK25ZSX-W	information relates to. Indicated val	
Outdoor unit model name	SCM60ZS-W	heating season at a time. Include a	at least the heating season 'Average'
Eupation/indicate if present\		Average (mandatanı)	Vac
Function(indicate if present) cooling	Yes	Average(mandatory) Warmer(if designated)	Yes Yes
heating	Yes	Colder(if designated)	No
	1 .00	Coluci (ii. Coolgilatou)	
Item	symbol value unit	Item	symbol value class
Design load	- · · · · · · · · · · · · · · · · · · ·	Seasonal efficiency and energy effi	
cooling	Pdesignc 6.00 kW	cooling	SEER 8.20 A++
heating / Average	Pdesignh 4.80 kW	heating / Average	SCOP/A 4.70 A++
heating / Warmer heating / Colder	Pdesignh 6.40 kW Pdesignh - kW	heating / Warmer heating / Colder	SCOP/W 6.40 A+++ SCOP/C
rieating / Colder	Pdesignh - kW	rieating / Colder	unit
Declared capacity at outdoor tempe	rature Tdesignh	Back up heating capacity at outdoor	
heating / Average (-10°C)	Pdh 4.80 kW	heating / Average (-10°C)	elbu 0 kW
heating / Warmer (2°C)	Pdh 6.40 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 ind	oor temperature 27(19)°C and	Declared energy efficiency ratio, at	indoor temperature 27(19)°C and
outdoor temperature Tj	Data Coo Live	outdoor temperature Tj	55D4 0.05
Tj=35°C	Pdc 6.00 kW Pdc 4.40 kW	Tj=35°C	EERd 3.85 -
Tj=30°C Tj=25°C	Pdc 4.40 kW Pdc 2.80 kW	Tj=30°C Tj=25°C	EERd 6.20 - EERd 11.30 -
Tj=25 C Ti=20°C	Pdc 2.80 kW	Ti=20°C	EERd 11.30 - EERd 14.60 -
1]-20 0	-uc 2.03 KVV] [1]=20 0	EERU 14.00 -
Declared capacity for heating / Aver	age season, at indoor	Declared coefficient of performance	e / Average season, at indoor
temperature 20°C and outdoor temp		temperature 20°C and outdoor tem	
Tj=-7°C	Pdh 4.10 kW	Tj=-7°C	COPd 3.25 -
Tj=2°C	Pdh 2.60 kW	Tj=2°C	COPd 4.60 -
Tj=7°C	Pdh 1.65 kW	Tj=7°C	COPd 5.80 -
Tj=12°C	Pdh 1.95 kW	Tj=12°C	COPd 8.00 -
Tj=bivalent temperature	Pdh 4.80 kW	Tj=bivalent temperature	COPd 2.60 -
Tj=operating limit	Pdh 4.35 kW	Tj=operating limit	COPd 2.40 -
Declared consider that the first	- Challen	Deployed as officient 1	. / / / / / / / / / / / / / / / / / / /
Declared capacity for heating / Warr temperature 20°C and outdoor temp		Declared coefficient of performance temperature 20°C and outdoor tem	
temperature 20 C and outdoor temp	Pdh 6.40 kW	Ti=2°C	COPd 3.10 -
Tj=2 C Tj=7°C	Pdh 4.05 kW	Ti=7°C	COPd 3.10 - COPd 5.85 -
Tj=12°C	Pdh 1.95 kW	Tj=12°C	COPd 5.83 - COPd 8.00 -
Tj=12 C Tj=bivalent temperature	Pdh 6.40 kW	Tj=12 C	COPd 3.10 -
Ti=operating limit	Pdh 4.35 kW	Tj=operating limit	COPd 2.40 -
rj=oporating iiriit	1 dii 4.00 KVV	rj=oporating iiriit	21.70
Declared capacity for heating / Cold	er season, at indoor	Declared coefficient of performance	e / Colder season, at indoor
temperature 20°C and outdoor temp	erature Tj	temperature 20°C and outdoor tem	perature Tj
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
Division to the second section		1 On and the Breit to an another	
Bivalent temperature heating / Average	Tbiv -10 °C	Operating limit temperature	Tol -15 ℃
0 0		heating / Average	
heating / Warmer heating / Colder	Tbiv 2 °C Tbiv - °C	heating / Warmer heating / Colder	Tol
neading / Coldel	I DIV - C	meaning / Colder	101 -
Cycling interval capacity		Cycling interval efficiency	
for cooling	Pcycc - kW	for cooling	EERcyc
for heating	Pcych - kW	for heating	COPcyc
<u> </u>			
Degradation coefficient		Degradation coefficient	
cooling	Cdc 0.25 -	heating	Cdh 0.25 -
Electric news in set in a second	other then leather as a del	Appual alastricity assessment -	
Electric power input in power modes off mode	s other than 'active mode' Poff 6 W	Annual electricity consumption cooling	Qce 256 kWh/a
		11	
standby mode thermostat-off mode		heating / Average heating / Warmer	Qhe 1431 kWh/a Qhe 1400 kWh/a
mennostat-on mode	Pto(cooling) 20 W Pto(heating) 30 W	heating / vvarmer	Qhe 1400 kwh/a
crankcase heater mode	Pro(neating) 30 VV Pck 0 W	Treating / coluer	GIIC - KVVII/d
	• ••	_	
Capacity control(indicate one of three	ee options)	Other items	
	-	Sound power level(indoor)	Lwa 58 dB(A)
		Sound power level(outdoor)	Lwa 63 dB(A)
fixed	No	Global warming potential	GWP 675 kgCO2eq
staged	No	Rated air flow(indoor)	- 786 m3/h
olagoa	Yes	Rated air flow(outdoor)	- 2460 m3/h
variable	162		
variable			
variable Contact details for obtaining	Name and address of the ma	nufacturer or of its authorised represe	ntative.
variable Contact details for obtaining more information Mitsu	Name and address of the ma	ning Europe, Ltd.	
variable Contact details for obtaining more information Mitsu	Name and address of the ma		
variable Contact details for obtaining more information Mitsu	Name and address of the ma	ning Europe, Ltd.	

INVERTER MULTI-SPLIT SYSTEM RESIDENTIAL AIR-CONDITIONERS



MITSUBISHI HEAVY INDUSTRIES THERMAL SYSTEMS, LTD.

2-3, Marunouchi 3-chome, Chiyoda-ku, Tokyo, 100-8332, Japan http://www.mhi-mth.co.jp/en/