

TECHNICAL MANUAL

INVERTER MULTI-SPLIT SYSTEM RESIDENTIAL AIR-CONDITIONERS

(Split system, air to air heat pump type)

(OUTDOOR UNIT)

SCM40ZS-S

45ZS-S

50ZS-S

(INDOOR UNIT)

25ZSP-S 35ZSP-S

Wall mounted type	Floor standing type	Ceiling concealed type
SRK20ZMX-S	SRF25ZMX-S	SRR25ZM-S
25ZMX-S	35ZMX-S	35 ZM- S
35ZMX-S	50ZMX-S	50ZM-S
50ZMX-S		
SRK20ZS-S		
25ZS-S	4way ceiling cassette type	Ceiling suspended type
35ZS-S	FDTC25VF	FDE50VG
50ZS-S	35VF	
SKM20ZSP-S	50VF	

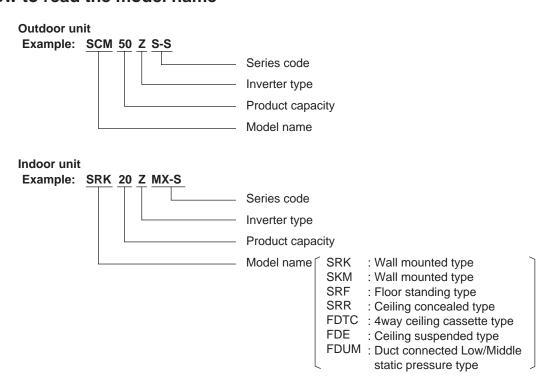
Duct connected Low/Middle static pressure type FDUM50VF

MITSUBISHI HEAVY INDUSTRIES THERMAL SYSTEMS, LTD.

■ Table of models

Model Capacity	20	25	35	50
Wall mounted type (SRK * * ZMX-S)	0	0	0	0
Wall mounted type (SRK * * ZS-S)	0	0	0	0
Wall mounted type (SKM * * ZSP-S)	0	0	0	
Floor standing type (SRF)		0	0	0
Ceiling concealed type (SRR)		0	0	0
4way ceiling cassette type (FDTC)		0	0	0
Ceiling suspended type (FDE)				0
Duct connected Low/Middle static pressure type (FDUM)				0
Outdoor unit to be combined (SCM)	SCM40ZS-S	, 45ZS-S, 50Z	:S-S	

■ How to read the model name



1. OUTDOOR UNITS

1.1 Specifications

Adapted to RoHS directive

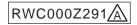
Operation data (1) Exterior dimensions Exterior appearance (Munsell color) Net weight		Cooling Heating Cooling Heating Cooling Heating Sound level Power level Sound level Power level	W W kW A dB (A)	4000 (1500 (Min.)-5900 (Max.)) 4500 (1300 (Min.)-6300 (Max.)) 1 Phase, 220-240V, 50Hz 0.84 (0.59-2.13) 0.90 (0.54-1.70) 4.2 / 4.0 / 3.8 (220 / 230 / 240V) 4.4 / 4.2 / 4.0 (220 / 230 / 240V) 4.4 / 4.2 / 4.0 (220 / 230 / 240V) 4.76 5.00 48
Heating capacity (1) Power source Operation data (1) Exterior dimensions Exterior appearance (Munsell color) Net weight Refrigerant	consumption Running current Inrush current COP Noise level Heating (Height x Width x I	Heating Cooling Heating Cooling Heating Sound level Power level Sound level Power level	kW A	4500 (1300 (Min.)-6300 (Max.)) 1 Phase, 220-240V, 50Hz 0.84 (0.59-2.13) 0.90 (0.54-1.70) 4.2 / 4.0 / 3.8 (220 / 230 / 240V) 4.4 / 4.2 / 4.0 (220 / 230 / 240V) 4.4 / 6.2 / 4.0 (220 / 230 / 240V) 4.76 5.00
Operation data (1) Exterior dimensions Exterior appearance (Munsell color) Net weight	consumption Running current Inrush current COP Noise level Heating (Height x Width x I	Heating Cooling Heating Cooling Heating Sound level Power level Sound level Power level	A dB (A)	1 Phase, 220-240V, 50Hz 0.84 (0.59-2.13) 0.90 (0.54-1.70) 4.2 / 4.0 / 3.8 (220 / 230 / 240V) 4.4 / 4.2 / 4.0 (220 / 230 / 240V) 4.4 / 4.2 / 4.0 (220 / 230 / 240V) 4.76 5.00
Operation data (1) Exterior dimensions Exterior appearance (Munsell color) Net weight	consumption Running current Inrush current COP Noise level Heating (Height x Width x I	Heating Cooling Heating Cooling Heating Sound level Power level Sound level Power level	A dB (A)	0.84 (0.59-2.13) 0.90 (0.54-1.70) 4.2 / 4.0 / 3.8 (220 / 230 / 240V) 4.4 / 4.2 / 4.0 (220 / 230 / 240V) 4.4 / 4.2 / 4.0 (220 / 230 / 240V) 4.76 5.00
Operation data (1) Exterior dimensions Exterior appearance (Munsell color) Net weight	consumption Running current Inrush current COP Noise level Heating (Height x Width x I	Heating Cooling Heating Cooling Heating Sound level Power level Sound level Power level	A dB (A)	0.90 (0.54-1.70) 4.2 / 4.0 / 3.8 (220 / 230 / 240V) 4.4 / 4.2 / 4.0 (220 / 230 / 240V) 4.4 / 4.2 / 4.0 (220 / 230 / 240V) 4.76 5.00
Operation data (1) Exterior dimensions Exterior appearance (Munsell color) Net weight	current Inrush current COP Noise level Heating (Height x Width x I	Cooling Heating Cooling Heating Sound level Power level Sound level Power level	dB (A)	4.2 / 4.0 / 3.8 (220 / 230 / 240V) 4.4 / 4.2 / 4.0 (220 / 230 / 240V) 4.4 / 4.2 / 4.0 (220 / 230 / 240V) 4.76 5.00
Operation data (1) Exterior dimensions Exterior appearance (Munsell color) Net weight	current Inrush current COP Noise level Heating (Height x Width x I	Cooling Heating Sound level Power level Sound level Power level	dB (A)	4.4 / 4.2 / 4.0 (220 / 230 / 240V) 4.4 / 4.2 / 4.0 (220 / 230 / 240V) 4.76 5.00
Exterior dimensions Exterior appearance (Munsell color) Net weight	COP Noise level	Cooling Heating Sound level Power level Sound level Power level	dB (A)	4.4 / 4.2 / 4.0 (220 / 230 / 240V) 4.76 5.00
Exterior dimensions Exterior appearance (Munsell color) Net weight	COP Noise level	Heating Sound level Power level Sound level Power level	· ' /	4.76 5.00
Exterior dimensions Exterior appearance (Munsell color) Net weight	Noise level Cooling Heating (Height x Width x I	Heating Sound level Power level Sound level Power level	· ' /	5.00
Exterior dimensions Exterior appearance (Munsell color) Net weight	Noise level Heating (Height x Width x I	Sound level Power level Sound level Power level	· ' /	
Exterior dimensions Exterior appearance (Munsell color) Net weight	Noise level Heating (Height x Width x I	Power level Sound level Power level	· ' /	
Exterior dimensions Exterior appearance (Munsell color) Net weight	Heating (Height x Width x I	Sound level Power level	ub	62
Exterior dimensions Exterior appearance (Munsell color) Net weight Refrigerant	Heating (Height x Width x I	Power level	4D (A)	<u> </u>
Exterior appearance (Munsell color) Net weight Refrigerant			dB (A)	50
Exterior appearance (Munsell color) Net weight			dB	64
(Munsell color) Net weight Refrigerant		Depth)	mm	595 x780 (+90) x 290
Refrigerant	(Munsell color)			Stucco white (4.2Y 7.5/1.1) near equivalent
Refrigerant			kg	42
Refrigerant	Compressor type	& Q'ty		RMT5111MFE2 (Twin rotary type) x 1
Refrigerant	Motor (Starting me	ethod)	kW	1.4 (Line starting)
Refrigerant	Refrigerant oil	,	e l	0.45 (DIAMOND FREEZE MA68)
	Refrigerant (4)		kg	R410A 1.9 (Pre-Charged up to the piping length of 30m)
equipment =	Heat exchanger Refrigerant control Device control		1.5	M fins & inner grooved tubing
⊢				Capillary tubes + Electronic expansion valve
-				Microcomputer control
Fan type & Q'ty			Propeller fan x 1	
Air handling Motor			W	24
Air handling equipment	IVIOLOT	0	VV	
equipment	Air flow	Cooling	m³/min	32.5
Air flow Heating Shock & vibration absorber			32.5	
Electric heater			Cushion rubber (for compressor)	
Electric neater				Crank case heater (220V 20W)
Safety devices				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") × 2	
			111111	Gas line: φ 9.52 (3/8") × 2
	Connecting method	od		Flare connecting
Installation	Insulation for piping			Necessary (Both sides), independent
data	Length for one ind	loor unit		Max. 25
	Total length for all rooms			Max. 30
	Vertical height diff	erence between	m	Max. 15 (Outdoor unit is higher) Max. 15 (Outdoor unit is lower)
-	Height difference		1 1	Max. 25
Recommended brea		or the mader and	Α	25
1	Size x Core numb	or .		1.5mm ² x 4 cores (Including earth cable)
Connection wiring +	Connecting metho			Terminal block (Screw fixing type)
IP number	Connecting metric	J u		IPX4
Accessories (include	ad)			Installation sheet, Elbow, Grommet
ndoor unit to be con	,			SRK20,25,35ZMX-S SRK20,25,35ZS-S SKM20,25,35ZSP-S SKM20,25,35ZSP-S SRF25,35ZMX-S SRF25,35ZM-S FDTC25,35VF
	able indoor units			2
Number of connecta			1	<u>-</u>

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

The pipe length for one indoor unit is 5m.

Item	Indoor air t	emperature	Outdoor air	temperature	Standards	
Operation	DB	WB	DB	WB	Standards	
Cooling	27°C	19°C	35°C	24°C	100 T1 110 C 0610	
Heating	20°C	_	7°C	6°C	ISO-T1, JIS C 9612	

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) The operation data are applied to the 220/230/240V districts respectively.
 (4) The refrigerant quantity to be charged includes the refrigerant in 30m connecting piping. (Purging is not required even for the short piping.)



Adapted to RoHS directive

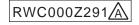
Item				Model	SCM45ZS-S
Cooling capacity (1	`			W	4500 (1500 (Min.)-6400 (Max.))
Heating capacity (1				W	5300 (1300 (Min.) -6500 (Max.))
Power source)			VV	1 Phase, 220–240V, 50Hz
Fower source	Б		Cooling		1.04 (0.59–2.30)
	Power consumption			kW	1.15 (0.54–1.92)
		-	Heating Cooling		, ,
	Runnin				5.0 / 4.8 / 4.6 (220 / 230 / 240V)
			Heating	A	5.4 / 5.2 / 5.0 (220 / 230 / 240V)
Operation	Inrush	current			5.4 / 5.2 / 5.0 (220 / 230 / 240V)
data (1)	COP		Cooling		4.33
		1	Heating	ID (A)	4.61
		Cooling	Sound level	dB (A)	49
	Noise		Power level	dB	62
	level	Heating	Sound level	dB (A)	51
			Power level	dB	64
Exterior dimensions (Height x Width x Depth)			Depth)	mm	595 x780 (+90) x 290
Exterior appearance (Munsell color)	e 				Stucco white (4.2Y 7.5/1.1) near equivalent
Net weight				kg	42
		essor type			RMT5111MFE2 (Twin rotary type) x 1
	Motor (Starting me	ethod)	kW	1.4 (Line starting)
Defeirement	Refrige	rant oil		l	0.45 (DIAMOND FREEZE MA68)
Refrigerant equipment	Refrige	Refrigerant (4)		kg	R410A 1.9 (Pre-Charged up to the piping length of 30m)
oquipo	Heat ex	kchanger			M fins & inner grooved tubing
	Refrige	Refrigerant control			Capillary tubes + Electronic expansion valve
	Device control				Microcomputer control
	Fan type & Q'ty			Propeller fan x 1	
Air handling	Motor			W	24
equipment	Air flour		Cooling	m³/min	32.5
	Air flow Heating		111 /111111	32.5	
Shock & vibration absorber			Cushion rubber (for compressor)		
Electric heater					Crank case heater (220V 20W)
Safety devices					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") × 2		
	Connecting method Insulation for piping		111111	Gas line: φ 9.52 (3/8") × 2	
				Flare connecting	
Installation				Necessary (Both sides), independent	
data			n for one indoor unit		Max. 25
				Max. 30	
	outdoo	r unit and ir		m	Max. 15 (Outdoor unit is higher) Max. 15 (Outdoor unit is lower)
	Height	difference of	of the indoor units		Max. 25
Recommended bre	aker size)		Α	25
Connection wiring	Size x (Core number	er		1.5mm ² x 4 cores (Including earth cable)
Connection wining	Connec	cting metho	od		Terminal block (Screw fixing type)
IP number					IPX4
Accessories (includ	ed)				Installation sheet, Elbow, Grommet
Indoor unit to be co	mbined				SRK20,25,35ZMX-S SRK20,25,35ZS-S SKM20,25,35ZSP-S SRF25,35ZMX-S SRR25,35ZM-S FDTC25,35VF
Number of connect	able indo	oor units			2
Total of indoor units	 3			kW	Max. 7

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

The pipe length for one indoor unit is 5m.

		-			-
Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Stariuarus
Cooling	27°C	19°C	35°C	24°C	ISO-T1, JIS C 9612
Heating	20°C	_	7°C	6°C	130-11, 313 C 9012

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) The operation data are applied to the 220/230/240V districts respectively.
 (4) The refrigerant quantity to be charged includes the refrigerant in 30m connecting piping. (Purging is not required even for the short piping.)



Adapted to RoHS directive

Item				Model	SCM50ZS-S
				W	5000 (1800 (Min.)-7100 (Max.))
Cooling capacity (1) Heating capacity (1)		W			
9 1 7 7)			VV	6000 (1400 (Min.)-7500 (Max.))
Power source			10 "		1 Phase, 220–240V, 50Hz
	Power Cooling			kW	1.05 (0.60-2.15)
	consun	nption	Heating		1.24 (0.55–2.58)
	Runnin		Cooling		5.2 / 5.0 / 4.8 (220 / 230 / 240V)
	current		Heating	A	6.2 / 5.9 / 5.7 (220 / 230 / 240V)
Operation	Inrush	current			6.2 / 5.9 / 5.7 (220 / 230 / 240V)
data (1)	COP		Cooling		4.76
(-)	001		Heating		4.84
		Cooling	Sound level	dB (A)	49
	Noise	Cooming	Power level	dB	62
	level	I I a a ki a a	Sound level	dB (A)	51
		Heating	Power level	dB	64
Exterior dimensions	terior dimensions (Height x Width x Depth)		mm	640 x 850 (+65) x 290	
Exterior appearance			. ,		Stucco white
(Munsell color)					(4.2Y 7.5/1.1) near equivalent
Net weight				kg	48.5
	Compr	essor type	& Q'ty		RMT5113MFE2 (Twin rotary type) x 1
	Motor (Starting me	ethod)	kW	1.4 (Line starting)
	Refrige	rant oil		Q.	0.45 (DIAMOND FREEZE MA68)
Refrigerant	rigerant Pofrigorant (4)			kg	R410A 2.5 (Pre-Charged up to the piping length of 40m)
equipment		Heat exchanger		9	M fins & inner grooved tubing
	Refrigerant control				Capillary tubes + Electronic expansion valve
	Device control				Microcomputer control
	Fan type & Q'ty			Propeller fan x 1	
A: 1 III:	Motor	De a Q ty		W	34
Air handling equipment	IVIOLOI		Cooling	VV	41.0
oquipinoni	Air flow Cooling Heating			m³/min	41.0
Chook & vibration a	haarbar		пеашу		
Shock & vibration a	bsorber				Cushion rubber (for compressor)
Electric heater					Crank case heater (220V 20W) Compressor overheat protection, Overcurrent protection,
Safety devices	1				Frost protection, Serial signal error protection, Outdoor fan motor error protection, Heating & Cooling overload protection
	Refriae	rant piping	size (O.D)	mm	Liquid line: φ6.35 (1/4") × 3
					Gas line: φ 9.52 (3/8") × 3
	Connecting method				Flare connecting
Installation	Insulation for piping				Necessary (Both sides), independent
data	Length for one indoor unit				Max. 25
	Total le	Total length for all rooms			Max. 40
				m	Max. 15 (Outdoor unit is higher) Max. 15 (Outdoor unit is lower)
Vertical height difference bet outdoor unit and indoor unit Height difference of the indo		of the indoor units]	Max. 25	
Recommended brea	aker size)		Α	25
	Size x (Core number	er		1.5mm ² x 4 cores (Including earth cable)
Connection wiring		cting metho			Terminal block (Screw fixing type)
IP number		<u> </u>			IPX4
Accessories (include	ed)				Union: $(\phi 9.52 \rightarrow \phi 12.7) \times 1$, Installation sheet, Elbow, Grommet
Indoor unit to be co					SRK20,25,35,50ZMX-S SRK20,25,35,50ZS-S SKM20,25,35,50ZS-S SKM20,25,35ZSP-S SRF25,35,50ZMX-S SRR25,35,50ZM-S FDTC25,35,50VF FDE50VG,FDUM50VF
Number of connect	able indo	oor units			Min. 2-Max. 3
Total of indoor units				kW	Max. 8.5
.c.a. or mador arms				1744	

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

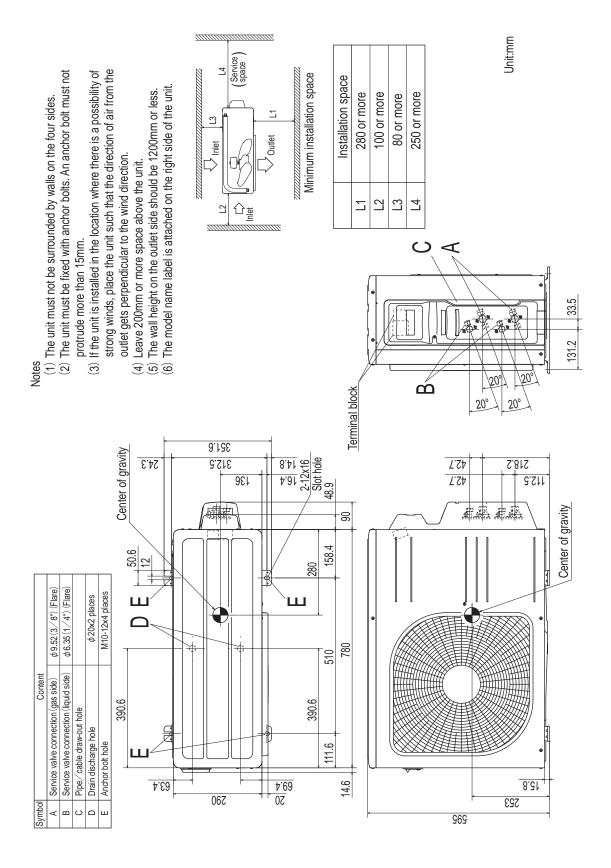
The pipe length for one indoor unit is 5m.

Item	Indoor air t	emperature	Outdoor air	temperature	Standards	
Operation	DB	WB	DB	WB	Standards	
Cooling	27°C	19°C	35°C	24°C	ISO-T1. JIS C 9612	
Heating	20°C	_	7°C	6°C	150-11, 315 C 9612	

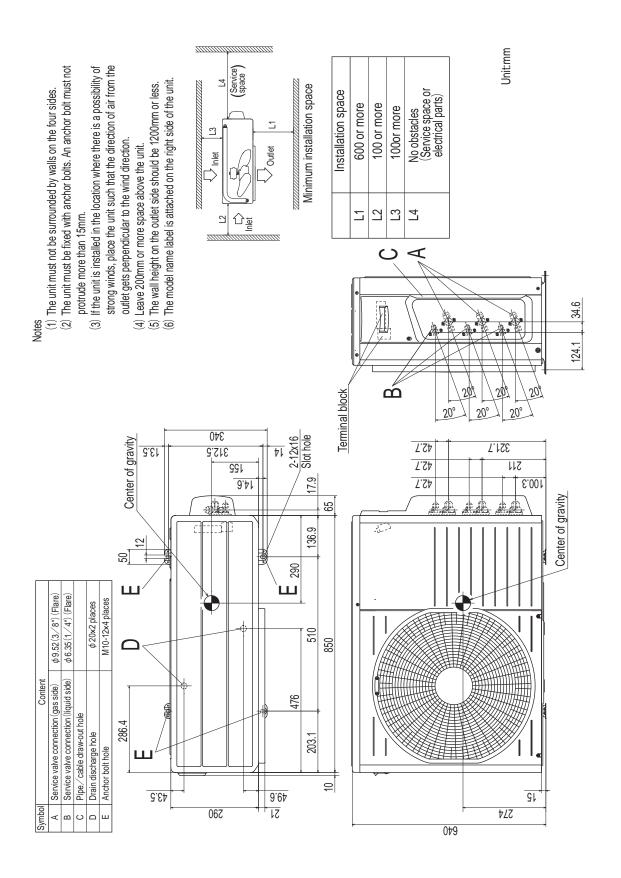
(2) This air-conditioner is manufactured and tested in conformity with the ISO.
(3) The operation data are applied to the 220/230/240V districts respectively.
(4) The refrigerant quantity to be charged includes the refrigerant in 40m connecting piping. (Purging is not required even for the short piping.)

1.2 Exterior dimensions

Models SCM40ZS-S, 45ZS-S



Model SCM50ZS-S

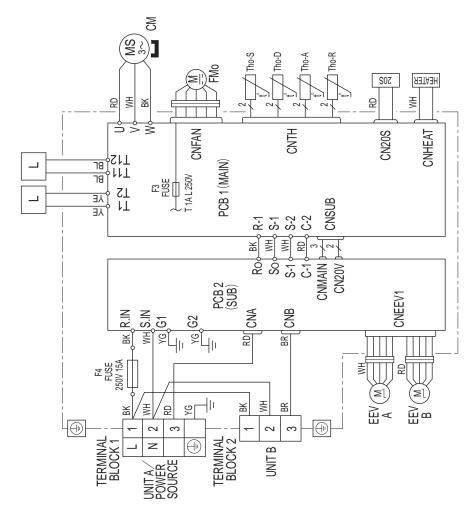


1.3 Electrical wiring

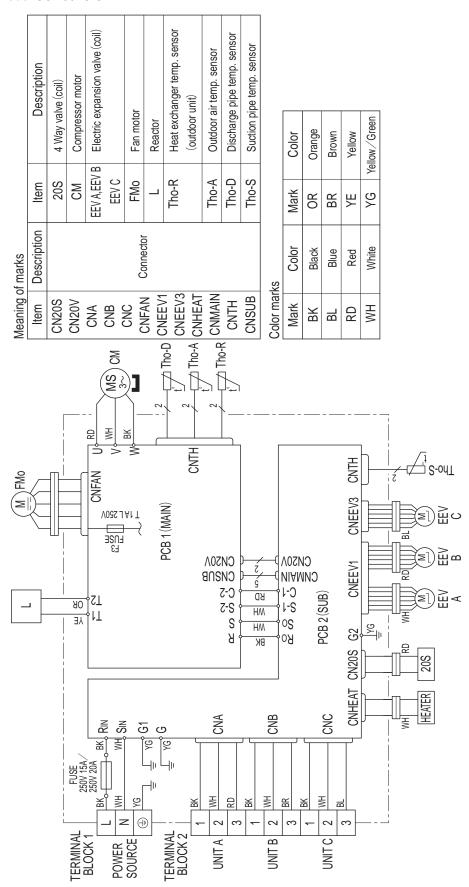
Models SCM40ZS-S, 45ZS-S

Meaning of marks Item Descrip CN20V CNA CNB CNEV1 CNFAN CNFAN CNHEAT CNMAIN CNSUB	Description Connector	L Tho-A Tho-A Tho-A Tho-D	Description 4 Way valve (coil) Compressor motor Electric expansion valve (coil) Fan motor Reactor Heat exchanger sensor (outdoor unit) Outdoor air temp, sensor
CNTH		Tho-S	Suction pipe temp. sensor

	Color	Wellow	Yellow/Green	Brown	
	Mark	ЭA	ЭA	BR	
KS	Color	Black	Red	White	Blue
Color marks	Mark	BK	RD	MH	BL



Model SCM50ZS-S



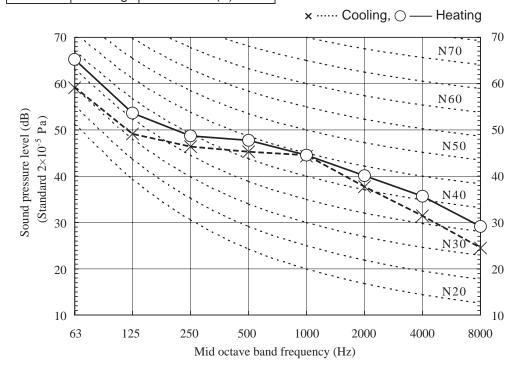
1.4 Noise level

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

C 9612

Model SCM40ZS-S

			0 11.11	100 74 110
Noise	Cooling	48 dB(A)	Condition	ISO-T1,JIS
140130	Cooming	+0 ab(/ t)		
Level	Heating	50 dB(A)		

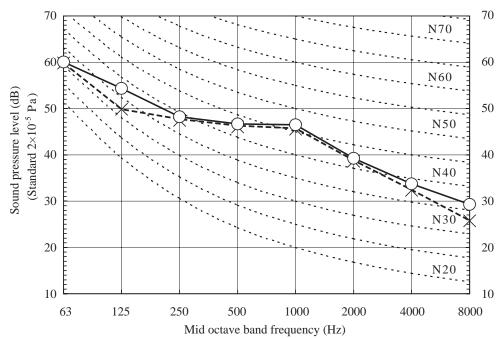


Model SCM45ZS-S

Noise	Cooling	49 dB(A)
Level	Heating	51 dB(A)

Condition	ISO-T1,JIS C 9612
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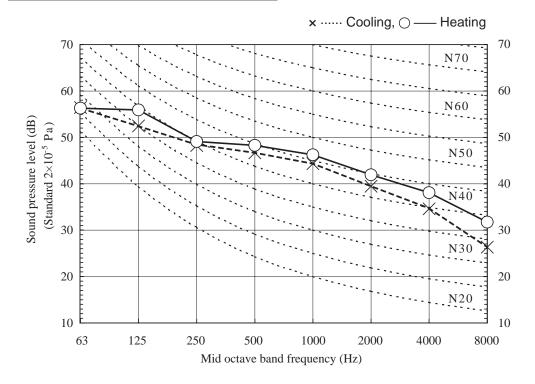




Model SCM50ZS-S

Noise	Cooling	49 dB(A)
Level	Heating	51 dB(A)

Condition	ISO-T1,JIS C 9612



1.5 Application data

Models SCM40ZS-S, 45ZS-S, 50ZS-S

RPC012A200

Model SCM40,45,50,60 **R410A REFRIGERANT USED**

• This installation manual deals with an outdoor unit installation only. For an indoor unit installation, refer to page 81.

NOTE This model requires a minimum of 2 indoor units.

SAFETY PRECAUTIONS

- Before installation, read the "SAFETY PRECAUTIONS" carefully and strictly follow it during the installation 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.
- A WARNING Indicates a potentially hazardous situation which, if not avoided, can result in serious consequences such as death or severe injury.

 A CAUTION Indicates a potentially hazardous situation which if not avoided can result in personal in-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.

⚠ 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.

Installation must be carried out by the qualified installer completely in accordance with the installation manual.

- dance with the installation manual.

 Installation by non qualified person or incorrect installation can cause serious troubles such as water leak, electric shock, fire and personal injury.

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

 Use the original accessories and the specified components for the installation.
- Using parts other than those prescribed may cause water leak, electric shock, fire and personal injury.

 Do not install the unit near the location where leakage of flammable gases can occur. If leaked gases accumulate around the unit, it can cause fire resulting in property damage and personal line.
- 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

- Install the unit in a location where unit will remain stable, norizontal and tree 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 R410A.

 Using any other refrigerant can cause unit failure and personal injury.

 Do not vent R410A into atmosphere.

 R410A is a fluorinated greenhouse gas with a Global Warning Potential(GWP)=2088.

 Make sure that no air enters the refrigerant circuit when the unit is installed and removed.
- 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 can cause burst and personal injury.

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

 Life addition and five the prescribed pipes, flare nuts and tools for R410A.

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

 Life addition and 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.

 Life addition and the fire P22 or R417() can cause refrigerant circuit burst resulting in unit failure and the prescribed power and connecting cables for electrical work.
- The related literappears could, the pressure in the length and creat will become to high, which can cause burst and personal injury.

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

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

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

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.

- tion work in order to protect yourself.

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

 Be sure to explain the operating methods as well as the maintenance methods of this equipment to the

 - - 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 resulting in burst or personal injury

 - 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 canacities are installed.

 - pacities are installed.

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

 Be sure to switch off the power source in the event of installation, maintenance or service.
 - If the power source is not switched off, there is a risk of electric shock, unit failure or personal injury.

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

 Loose connections or cable mountings can cause anomalous heat production or fire.
 - Do not process, splice or modify the power cable, or share the socket with
 - orther 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.

 - Be sure to use the prescribed power and connecting cables for electrical work. Using improper cables can cause electric leak, anonalous heat production or frie.

 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 norm IEC60884-1 must be used. Using improper plug can cause electric shock or fire.

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

⚠ CAUTION

- Take care when carrying the unit by hand.
 If the unit weight is more than 20kg, it must be carried by two or more persons.
 Do not carry the unit by the plastic straps. Always use the carry handle.
 Do not install the outdoor unit in a location where insects and small animals
- can inhabit. Insects and small animals can enter the electrical parts and cause damage resulting in fire or per-

- Insects and small animals can enter the electrical parts and cause damage resulting in the or personal injury, Instruct the user to keep the surroundings clean.

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

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

 Do not install the unit near the location where neighbours are bothered by noise or air generating from the unit.
- 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 corrosin of heat exchanger and damage to plastic parts.

 Do not install the unit close to the equipments that generate electromagnetic waves and/or high-harmonic waves.
- Equipment such as inverters, standby generators, medical high frequency equipments and telecommunication equipments can affect the system, and cause malfunctions and breakdowns.

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

- Do not install the unit in the locations where:
- Unit is directly exposed to rain or sunlight

- Unit is directly exposed to rain or sunlight.
 There is any obstacle which can prevent smooth air circulation from inlet and outlet side of the unit.
 Unit is directly exposed to oil mist and steam such as kitchen.
 Chemical substances like ammonia (organic fertilizer), calcium chloride (snow melting agent) and acid (suffrous acid etc.), which can harm the unit, will generate or accumulate.
 Drain water can not be discharged properly.
 TV set or radio receiver is placed within 1m.
 Height above sea level is more than 1000m.
 It can cause performance degradation, corrosion and damage of components, unit malfunction and fire.

- Dispose of all packing materials properly.

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

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

- 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. <i>F</i>	1. ACCESSORIES AND TOOLS						
l —	Standard accessories		Г	Land Land	1	Tools for installation work	
((Supplied with outdoor unit)		Locally procured parts	100IS for Installation work			
(1) Drain grommet (2)	1	(a)	Anchor bolt(M10-M12)×4 pcs	Plus headed driver	Spanner wrench	Vacuum pump*
(1,) Drain groniner	<u> </u>	(b)	Putty	Knife	Torque wrench [14.0-62.0N/m(1.4-6.2kgf•m)]	Gauge manifold *
(2)	Drain elbow	1	(c)	Electrical tape	Saw	Wrench key (Hexagon) [4m/m]	Charge hose *
	Variable diameter joint SCM50	1	(d)	Connecting pipe	Tono monouro	Floring tool not *	Vacuum pump adapter*
(3)	(3) ø9.52→ø12.7 SCM60	_	(e)	Connecting cable	Tape measure	Flaring tool set *	(Anti-reverse flow type)
	COMICO		(f)	Power cable	Pipe cutter	Flare adjustment gauge	Gas leak detector *
			(g)	Clamp and screw (for finishing work)			*Designed specifically for R410A

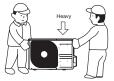
2. OUTDOOR UNIT INSTALLATION

NOTE Do not step on a top and the service cover of the unit.

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 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 1m.
- Unit is not affected by electromagnetic waves and/or high-harmonic waves generated by other equipments.
 Strong wind does not blow against the unit outlet.
- Heavy snowfalls do not occur (If installed, provide proper protection to avoid snow accumulation).

NOTE

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

(1) Location of strong wind

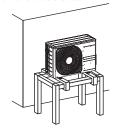
• Place the unit with its outlet side facing the wall. • Place the unit such that the direction of air from the outlet gets perpendicular to the wind direct





(2) Location of snow accumulation

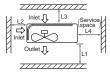
. Install the unit on the base so that the bottom is . Install the unit under eaves or provide the roof higher than snow cover surface. on site





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.



	Installation space (mm)		
	Model SCM40/45	Model SCM50/60	
L1	280 or more	600 or more	
L2	100 or more	100 or more	
L3	80 or more	100 or more	
L4	250 or more	No obstacles (Service space or electrical parts)	

NOTE

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 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. <SCM40/45>

<SCM50/60>





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

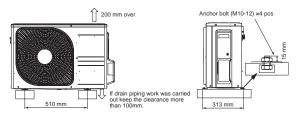
⚠ CAUTION

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

5. Installation

- Install the unit on a flat level base.

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



⚠ CAUTION

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

Make sure that unit is installed on a flat level base. Installing unit on uneven base may result in unit

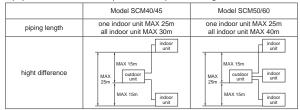
3. PREPARATION FOR WORK 1. Removing service cover 2. Removing terminal cover Remove the scre <SCM40/45> rvice cover downwards and remove it nove the screw <SCM40/45> <SCM50/60> <SCM50/60>

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 pipe
Select connecting pipe according to the following table.

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

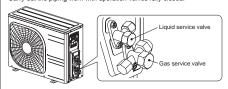
- Pipe wall thickness must be greater than or equal to 0.8 mm.
 Pipe material must be O-type (Phosphorus deoxidized seamless copper pipe ICS 23.040.15, ICS 77.150.30).

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.

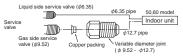
3. Piping work

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



3.1. Flaring pipe
(1) SCM40/45
Take out flare nuts from the service valves of outdoor unit and engage them onto connecting pipes. out flare nuts from the service valves of outdoor unit

Take out flare nuts from the service valves of outdoor unit. If a 5.0, 6.0 kw class indoor unit (gas side pipe 12.7) is going to be connected to the service valves (9.52), variable joints available as accessories must be applied to the gas side service valves. Securely fit the copper packing between the service valve and the variable diameter joint to prevent shifting. Engage flare nuts onto connecting pipes.



 $A_{-0.4}^{0}$

9.1

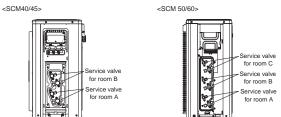
16.6

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

-A-	Copper pipe outer diameter
	ø6.35
	ø9.52
	ø12.7

	Copper pipe	Rigid (clutch) type		
	outer diameter	R410A	Conventional	
	ø6.35			
	ø9.52			
	ø12.7	0-0.5	1.0-1.5	

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



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

(2) Figure 1 rate to opening to que orient in the table bole			
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 hold the valve cap area with a spanne

⚠ 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.

- (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 -0.1MPa (-76cm Hg).

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

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

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

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

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

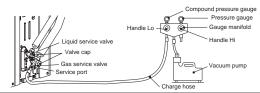
 Wipe off all the water after completing the check.

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

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

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

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



⚠ CAUTION

- To prevent the entering of different oil into the refrigeration system, do not use tools designed for any other refrigerant type (R22, R407C, etc.).
 To prevent vacuum pump oil from entering into the refrigerant system, use a counterflow prevention adapter.

5. ELECTRICAL WIRING WORK

- AL WARNING

 * Make sure that all the electrical work is carried out in accordance with the national or regional electrical 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 turn on condensive capacitor for power factor improvement under any circumstances. ((It does not improve power factor. Moreover, it can cause an abnormal overheat accident).

Breaker specifications

Model	Phase	Earth leakage breaker	Circuit breaker
SCM40/45/50/60	l Single phase	Leakage current: 30mA, 0.1sec or less	Over current: 25A

waiii iuse specilio	ation		
Model	Specification	Parts No.	
SCM40/45/50	250V 15A	SSA564A136	
SCM60	250V 20A	SSA564A136A	

1.Preparing cable

(1) Selecting cable

Selecturing cable
Select the power source cable and connecting cable in accordance with the specifications mentioned below.

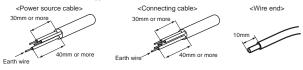
(a) Power source cable
3-core* 4.0mm* or more, conformed with 60245 IEC57(CENELEC H05RN-F)
When selecting the power source cable length, make sure that voltage drop is less than 2%.

If the wire length gets longer, increase the wire diameter.

(b) Connecting cable
4-core* 1.5mm*, conformed with 60245 IEC57(CENELEC H05RN-F)
* 1 Earth wire is included (Yellow/Green).

(2) Arrange each wire length as shown below

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



(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

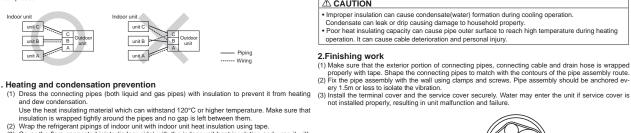
Power source cable and connecting cable must conform to the specifications mentioned in the manual. Using cables with wrong specifications may result in unit malfunction.

5. ELECTRICAL WIRING WORK 2.Connecting cable <SCM40/45> Remove the service cover and the terminal cover. 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. View of terminal block unit B unit A Keep the earth wire longer than the remaining two wires of power source cable. (b) Connect the remaining two wires (N and L) of power source cable. (c) Connect the wires of connecting cables. Make sure that for each wire, outdoor and indoor side ter-minal 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 connec tions. Moreover, make sure that cables do not touch the piping, etc. When cables are connected, make sure that all electrical components within the electrical component box are free of loose connector coupling or terminal connection. <Circuit diagram> Outdoor unit unit A unit B 6 ⊕ N L 1 2 3 1 2 3 1 2 3 Connecting cable <SCM 50/60> Circuit unit A unit B unit C source 1 2 3 1 1 2 3 1 1 2 3 1

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 compressor.



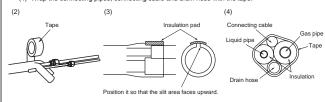
1. Heating and condensation prevention

- Use the neat insulating material wincin can winistand 120°C or higher temperature. Make sure that insulation is wrapped tightly around the pipes and no gap is left between them.

 (2) Wrap the refrigerant pipings of indoor unit with indoor unit heat insulation using tape.

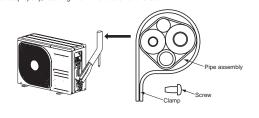
 (3) Cover the flare-connected joints (indoor side) with the indoor unit heat insulation and wrap it with an insulation pad (standard accessory provided with indoor unit).

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



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

- · Improper insulation can cause condensate(water) formation during cooling operation
- Thirpiper insulation can be about a state of the content and the condensate can leak or drip causing damage to household property.
 Poor heat insulating capacity can cause pipe outer surface to reach high temperature during heating operation. It can cause cable deterioration and personal injury.

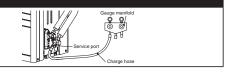


⚠ CAUTION

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 service valves for all connected indoor units with hexagonal wrench key.
 (3) Fully open the gas service 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 0.01MPa, close the gas service valves and stop forced cooling



8. INSTALLATION TEST CHECK POINTS

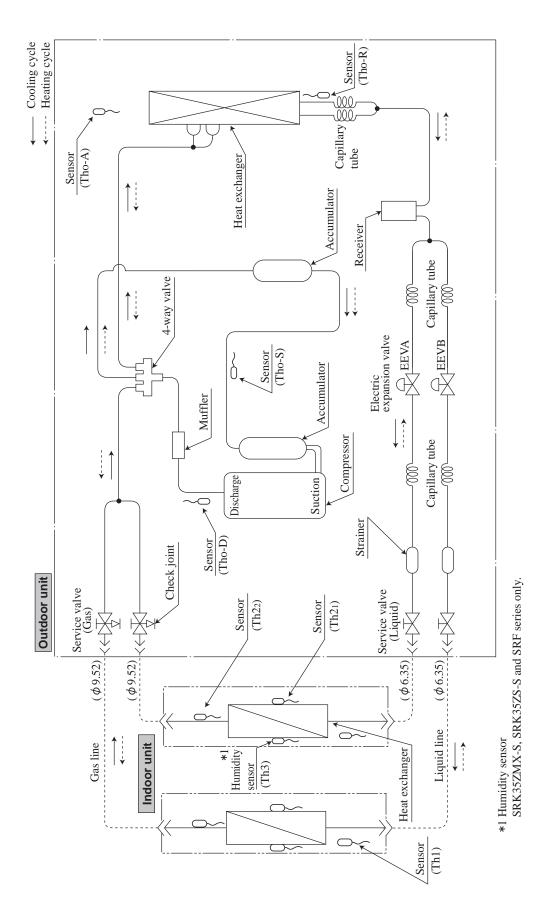
After finishing the installation work, check the following points again before turning on the power

,	Conduct test run (Refer to indoor unit installation manda) and ensure that the di	iiii opera	116
	Power source voltage complies with the rated voltage of air-conditioner.		
	Earth leakage breaker and circuit breaker are installed.		
	Power cable and connecting cable are securely fixed to the terminal block.		
	Both liquid and gas service valves are fully open.		

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

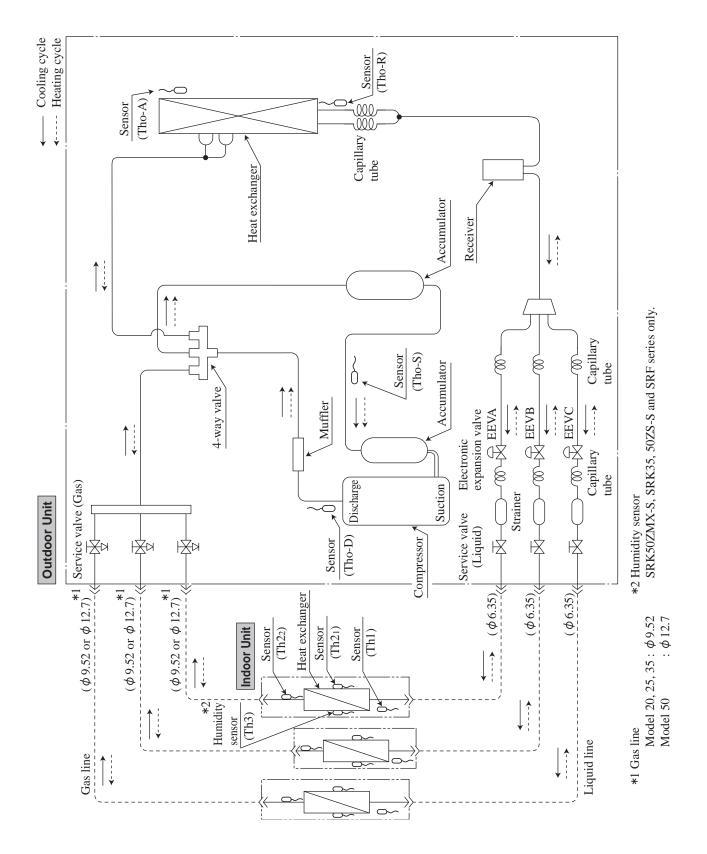
3. PIPING SYSTEMS

Models SCM40ZS-S, 45ZS-S



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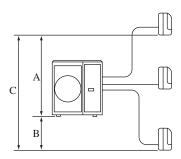
Model SCM50ZS-S



4. RANGE OF USAGE & LIMITATIONS

		Model	SCM40ZS-S	SCM45ZS-S	SCM50ZS-S					
Item		0 !!								
Indoor intake ai		Cooling		Approximately 18 to 32°C						
(Upper, lower li	mits)	Heating		Approximately 15 to 30°C						
Outdoor air tem	•	Cooling	Approximately -15 to 43°C							
(Upper, lower li	mits)	Heating		Approximately -15 to 24°C						
Indoor units that can be	Number of con	nected units		2 units	2 to 3 units					
used in combination	Total of indoor Ur	nits (class kW)	4.0-6.0kW	4.5-7.0kW	5.0-8.5kW					
Total length for	all rooms		ı	Max. 30m	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	gg 19g 1	Max. 15m						
Difference in he	ight between ind	oor units (C)		Max. 25m						
Compressor stop/start	1 cycle time		10 min. or n	nore (from stop to stop or from	start to start)					
frequency	Stop time			3 min. or more						
	Voltage fluctua	ation		Within ±10% of rated voltage						
Power source voltage	Voltage drop d	luring start		Within ±15% of rated voltage						
	Interval unbala	nce	Within ±3% of rated voltage							
Power cable ler	ngth			32m ⁽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 COMBINATIONS

- The combinations of the indoor units is indicated by numbers. They are read as follows. (Example) SRK20ZMX-S \rightarrow 20 SRK25ZMX-S \rightarrow 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

	SCM40ZS-S,45ZS-S	SCM50ZS-S
MIN	2	2
MAX	2	3

(1) Model SCM40ZS-S

<Cooling> (a) Indoor unit SRK * * ZMX-S models only

		Cooling capacity (kW)						consumpti	on (W)	Standard current (A)		
Indoor unit combination		Indoor unit capacity (kW)		Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		Α	В	Min.	Standard	Max.						
	20	2.0	-	1.5	2.0	2.8	560	590	880	2.9	2.8	2.7
1 unit	25	2.5	-	1.5	2.5	3.4	560	670	1040	3.3	3.2	3.1
dint.	35	3.5	-	1.5	3.5	3.9	560	970	1200	4.8	4.6	4.4
	20 + 20	2.00	2.00	3.0	4.0	5.7	600	840	1750	4.2	4.0	3.8
	20 + 25	2.00	2.50	3.0	4.5	5.9	600	1040	2030	5.0	4.8	4.6
2 units	20 + 35	1.89	3.31	3.0	5.2	5.9	600	1430	2030	6.7	6.4	6.2
uriits	25 + 25	2.50	2.50	3.0	5.0	5.9	600	1280	2030	6.1	5.8	5.6
	25 + 35	2.17	3.03	3.0	5.2	5.9	600	1430	2030	6.7	6.4	6.2

<Heating>

			Heati	ng capacity	/ (kW)		Power	consumpti	on (W)	Standard current (A)		
Indoor unit combination			or unit ty (kW)	Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		Α	В	Min.	Standard	Max.						
	20	3.0	-	1.3	3.0	3.7	520	750	1070	3.7	3.5	3.4
unit	25	3.4	-	1.3	3.4	4.2	520	920	1210	4.5	4.3	4.1
L driit	35	4.5	-	1.3	4.5	5.0	520	1210	1450	5.9	5.6	5.4
	20 + 20	2.25	2.25	2.0	4.5	6.3	550	900	1700	4.4	4.2	4.0
	20 + 25	2.36	2.94	2.0	5.3	6.3	550	1150	1700	5.4	5.2	5.0
2 units	20 + 35	2.11	3.69	2.0	5.8	6.3	550	1290	1700	6.0	5.8	5.5
	25 + 25	2.90	2.90	2.0	5.8	6.3	550	1290	1700	6.0	5.8	5.5
	25 + 35	2.42	3.38	2.0	5.8	6.3	550	1290	1700	6.0	5.8	5.5

(b) Indoor unit SKM * * ZSP-S models only

<Cooling>

			Cooli	ng capacit	y (kW)		Power consumption (W)			Standard current (A)			
Indoor unit combination			or unit ty (kW)	Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V	
		Α	В	Min.	Standard	Max.							
	20	2.0	-	1.5	2.0	2.7	560	650	880	3.2	3.1	3.0	
1 unit	25	2.5	-	1.5	2.5	3.2	560	830	1040	4.1	4.0	3.8	
driit	35	3.5	-	1.5	3.5	3.7	560	1100	1200	5.5	5.2	5.0	
	20 + 20	2.00	2.00	3.0	4.0	5.6	600	1050	1750	5.2	5.0	4.8	
_	20 + 25	2.00	2.50	3.0	4.5	5.8	600	1300	2030	6.3	6.0	5.8	
2 units	20 + 35	1.89	3.31	3.0	5.2	5.8	600	1600	2030	7.5	7.2	6.9	
	25 + 25	2.50	2.50	3.0	5.0	5.8	600	1420	2030	6.7	6.4	6.2	
	25 + 35	2.17	3.03	3.0	5.2	5.8	600	1600	2030	7.5	7.2	6.9	

<Heating>

			Heati	ng capacity	y (kW)		Power consumption (W)			Standard current (A)		
Indoor unit combination		Indoo capaci	or unit ty (kW)	Tota	Total capacity (kW)			Standard	Max.	220V	230V	240V
		Α	В	Min.	Standard	Max.						
	20	3.0	-	1.3	3.0	3.5	520	950	1070	4.6	4.4	4.2
l 1 unit	25	3.4	-	1.3	3.4	4.0	520	1020	1210	5.0	4.8	4.6
uiii.	35	4.5	-	1.3	4.5	4.8	520	1390	1450	6.8	6.5	6.2
	20 + 20	2.25	2.25	2.0	4.5	6.1	550	1020	1700	5.0	4.8	4.6
	20 + 25	2.36	2.94	2.0	5.3	6.1	550	1310	1700	6.2	5.9	5.7
2 units	20 + 35	2.11	3.69	2.0	5.8	6.1	550	1400	1700	6.5	6.3	6.0
	25 + 25	2.90	2.90	2.0	5.8	6.1	550	1400	1700	6.5	6.3	6.0
	25 + 35	2.42	3.38	2.0	5.8	6.1	550	1400	1700	6.5	6.3	6.0

(c) Indoor unit except SRK * * ZMX-S and SKM * * ZSP-S models

<Cooling>

			Cooli	ng capacity	y (kW)		Power	consumpti	on (W)	Standard current (A)			
Indoor unit combination		Indoor unit capacity (kW)		Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V	
		Α	В	Min.	Standard	Max.							
	20	2.0	-	1.5	2.0	2.7	560	620	880	3.1	3.0	2.8	
unit	25	2.5	-	1.5	2.5	3.2	560	710	1040	3.5	3.4	3.2	
L	35	3.5	-	1.5	3.5	3.7	560	1030	1200	5.1	4.9	4.7	
	20 + 20	2.00	2.00	3.0	4.0	5.6	600	880	1750	4.4	4.2	4.0	
	20 + 25	2.00	2.50	3.0	4.5	5.8	600	1090	2030	5.3	5.0	4.8	
2 units	20 + 35	1.89	3.31	3.0	5.2	5.8	600	1500	2030	7.0	6.7	6.5	
	25 + 25	2.50	2.50	3.0	5.0	5.8	600	1340	2030	6.4	6.1	5.8	
	25 + 35	2.17	3.03	3.0	5.2	5.8	600	1500	2030	7.0	6.7	6.5	

			Heati	ng capacit	y (kW)		Power consumption (W)			Standard current (A)		
Indoor unit combination		Indoor unit capacity (kW)		Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		Α	В	Min.	Standard	Max.						
	20	3.0	-	1.3	3.0	3.5	520	900	1070	4.4	4.2	4.0
1 unit	25	3.4	-	1.3	3.4	4.0	520	1070	1210	5.2	5.0	4.8
U I II	35	4.5	-	1.3	4.5	4.8	520	1340	1450	6.5	6.3	6.0
	20 + 20	2.25	2.25	2.0	4.5	6.1	550	930	1700	4.5	4.3	4.2
_	20 + 25	2.36	2.94	2.0	5.3	6.1	550	1240	1700	5.9	5.6	5.4
units	20 + 35	2.11	3.69	2.0	5.8	6.1	550	1330	1700	6.2	5.9	5.7
	25 + 25	2.90	2.90	2.0	5.8	6.1	550	1330	1700	6.2	5.9	5.7
	25 + 35	2.42	3.38	2.0	5.8	6.1	550	1330	1700	6.2	5.9	5.7

(2) Model SCM45ZS-S

(a) Indoor unit SRK ** ZMX-S models only

<Cooling>

			Cooli	ng capacity	/ (kW)		Power	consumpti	on (W)	Standard current (A)		
Indoor unit combination		Indoor unit capacity (kW)		Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		Α	В	Min.	Standard	Max.						
	20	2.0	-	1.5	2.0	2.8	560	590	880	2.9	2.8	2.7
l 1 unit	25	2.5	-	1.5	2.5	3.4	560	670	1040	3.3	3.2	3.1
u i ii	35	3.5	-	1.5	3.5	3.9	560	970	1200	4.8	4.3	4.4
	20 + 20	2.00	2.00	3.0	4.0	5.7	600	840	1750	4.2	4.0	3.8
	20 + 25	2.00	2.50	3.0	4.5	5.9	600	1040	2030	5.0	4.8	4.6
2	20 + 35	2.00	3.50	3.0	5.5	6.3	600	1490	2160	7.0	6.7	6.4
units	25 + 25	2.50	2.50	3.0	5.0	6.2	600	1280	2110	6.1	5.8	5.6
	25 + 35	2.42	3.38	3.0	5.8	6.4	600	1740	2200	8.0	7.6	7.3
	35 + 35	2.90	2.90	3.0	5.8	6.4	600	1740	2200	8.0	7.6	7.3

<Heating>

			Heati	ng capacity	y (kW)		Power	consumpti	on (W)	Stan	dard currer	nt (A)
Indoor (or unit ty (kW)	Tota	al capacity (kW)	Min.	Standard	Max.	220V	230V	240V
		Α	В	Min.	Standard	Max.						
	20	3.0	-	1.3	3.0	3.7	520	750	1070	3.7	3.5	3.4
1 unit	25	3.4	-	1.3	3.4	4.2	520	920	1210	4.5	4.3	4.1
	35	4.5	-	1.3	4.5	5.0	520	1210	1450	5.9	5.6	5.4
	20 + 20	2.25	2.25	2.0	4.5	6.5	550	900	1900	4.4	4.2	4.0
	20 + 25	2.36	2.94	2.0	5.3	6.5	550	1150	1900	5.4	5.2	5.0
2	20 + 35	2.18	3.82	2.0	6.0	6.5	550	1500	1900	6.9	6.6	6.3
	25 + 25	3.00	3.00	2.0	6.0	6.5	550	1500	1900	6.9	6.6	6.3
	25 + 35	2.50	3.50	2.0	6.0	6.5	550	1500	1900	6.9	6.6	6.3
	35 + 35	3.00	3.00	2.0	6.0	6.5	550	1500	1900	6.9	6.6	6.3

(b) Indoor unit SKM ** ZSP-S models only

<Cooling>

			Cooli	ng capacity	y (kW)		Power	consumpti	on (W)	Stan	dard curre	nt (A)
Indoor		Indoo capaci	or unit ty (kW)	Tota	al capacity ((kW)	Min.	Standard	Max.	220V	230V	240V
İ		Α	В	Min.	Standard	Max.	1					
	20	2.0	-	1.5	2.0	2.7	560	650	880	3.2	3.1	3.0
l 1 unit	25	2.5	-	1.5	2.5	3.2	560	830	1040	4.1	4.0	3.8
L	35	3.5	-	1.5	3.5	3.7	560	1100	1200	5.5	5.2	5.0
	20 + 20	2.00	2.00	3.0	4.0	5.6	600	1050	1750	5.2	5.0	4.8
	20 + 25	2.00	2.50	3.0	4.5	5.8	600	1300	2030	6.3	6.0	5.8
2	20 + 35	2.00	3.50	3.0	5.5	6.2	600	1650	2160	7.7	7.4	7.1
units	25 + 25	2.50	2.50	3.0	5.0	6.1	600	1380	2110	6.5	6.3	6.0
	25 + 35	2.42	3.38	3.0	5.8	6.3	600	1900	2200	8.7	8.3	8.0
	35 + 35	2.90	2.90	3.0	5.8	6.3	600	1900	2200	8.7	8.3	8.0

			Heati	ng capacity	y (kW)		Power	consumpti	on (W)	Stan	dard curre	nt (A)
Indoor u		Indoo capaci	or unit ty (kW)	Tota	al capacity ((kW)	Min.	Standard	Max.	220V	230V	240V
		Α	В	Min.	Standard	Max.						
	20	3.0	-	1.3	3.0	3.5	520	950	1070	4.6	4.4	4.2
1 unit	25	3.4	-	1.3	3.4	4.0	520	1020	1210	5.0	4.8	4.6
"""	35	4.5	-	1.3	4.5	4.8	520	1390	1450	6.8	6.5	6.2
	20 + 20	2.25	2.25	2.0	4.5	6.3	550	1020	1900	5.0	4.8	4.6
	20 + 25	2.36	2.94	2.0	5.3	6.3	550	1310	1900	6.4	6.1	5.9
2	20 + 35	2.18	3.82	2.0	6.0	6.3	550	1600	1900	7.3	7.0	6.7
units	25 + 25	3.00	3.00	2.0	6.0	6.3	550	1600	1900	7.3	7.0	6.7
	25 + 35	2.50	3.35	2.0	6.0	6.3	550	1600	1900	7.3	7.0	6.7
	35 + 35	3.00	3.00	2.0	6.0	6.3	550	1600	1900	7.3	7.0	6.7

(c) Indoor unit except SRK * * ZMX-S and SKM * * ZSP-S models

<Cooling>

			Cooli	ng capacity	y (kW)		Power	consumpti	on (W)	Stan	dard currer	nt (A)
Indoor u			or unit ty (kW)	Tota	al capacity ((kW)	Min.	Standard	Max.	220V	230V	240V
		Α	В	Min.	Standard	Max.						
	20	2.0	-	1.5	2.0	2.7	560	620	880	3.1	3.0	2.8
unit	25	2.5	-	1.5	2.5	3.2	560	710	1040	3.5	3.4	3.2
L driit	35	3.5	-	1.5	3.5	3.7	560	1030	1200	5.1	4.9	4.7
	20 + 20	2.00	2.00	3.0	4.0	5.6	600	880	1750	4.4	4.2	4.0
	20 + 25	2.00	2.50	3.0	4.5	5.8	600	1090	2030	5.3	5.0	4.8
2	20 + 35	2.00	3.50	3.0	5.5	6.2	600	1560	2160	7.3	7.0	6.7
units	25 + 25	2.50	2.50	3.0	5.0	6.1	600	1340	2110	6.4	6.1	5.8
	25 + 35	2.42	3.38	3.0	5.8	6.3	600	1820	2200	8.4	8.0	7.7
	35 + 35	2.90	2.90	3.0	5.8	6.3	600	1820	2200	8.4	8.0	7.7

			Heati	ng capacity	/ (kW)		Power	consumpti	on (W)	Stan	dard currer	nt (A)
Indoor u		1	or unit ty (kW)	Tota	al capacity (kW)	Min.	Standard	Max.	220V	230V	240V
		Α	В	Min.	Standard	Max.						
	20	3.0	-	1.3	3.0	3.5	520	900	1070	4.4	4.2	4.0
1 unit	25	3.4	-	1.3	3.4	4.0	520	1070	1210	5.2	5.0	4.8
u i ii	35	4.5	-	1.3	4.5	4.8	520	1340	1450	6.5	6.3	6.0
	20 + 20	2.25	2.25	2.0	4.5	6.3	550	930	1900	4.5	4.3	4.2
	20 + 25	2.36	2.94	2.0	5.3	6.3	550	1240	1900	6.0	5.8	5.5
2	20 + 35	2.18	3.82	2.0	6.0	6.3	550	1550	1900	7.1	6.8	6.5
units	25 + 25	3.00	3.00	2.0	6.0	6.3	550	1550	1900	7.1	6.8	6.5
	25 + 35	2.50	3.50	2.0	6.0	6.3	550	1550	1900	7.1	6.8	6.5
	35 + 35	3.00	3.00	2.0	6.0	6.3	550	1550	1900	7.1	6.8	6.5

(3) Model SCM50ZS-S (a) Indoor unit SRK * * ZMX-S models only

<Cooling>

			C	Cooling ca	pacity (kV	V)		Power	consumpt	on (W)	Stand	dard curre	nt (A)
Indoor		Indoor	unit capac	ity (kW)	Tota	l capacity	(kW)	Min.	Standard	Max.	220V	230V	240V
		Α	В	С	Min.	Standard	max.	IVIIII.	Statiuaru	IVIAX.	2200	2307	240 V
	20	2.0	-	-	1.8	2.0	2.8	500	550	900	2.7	2.6	2.5
1	25	2.5	-	-	1.8	2.5	3.4	500	720	1070	3.6	3.4	3.3
unit	35	3.5	-	-	1.8	3.5	3.9	500	1080	1230	5.4	5.1	4.9
	50	5.0	-	-	1.8	5.0	5.5	500	1700	2000	8.0	7.6	7.3
	20 + 20	2.00	2.00	-	3.0	4.0	5.7	570	910	1800	4.5	4.3	4.2
	20 + 25	1.91	2.39	-	3.0	4.3	5.9	570	1070	1980	5.3	5.1	4.9
	20 + 35	1.82	3.18	-	3.0	5.0	6.2	570	1430	2070	6.9	6.6	6.3
	20 + 50	1.71	4.29	-	3.0	6.0	6.5	570	1960	2150	9.0	8.6	8.2
2 units	25 + 25	2.35	2.35	-	3.0	4.7	6.2	570	1270	2070	6.2	5.9	5.7
l armo	25 + 35	2.21	3.09	-	3.0	5.3	6.5	570	1600	2150	7.6	7.2	6.9
	25 + 50	2.00	4.00	-	3.0	6.0	6.5	570	1960	2150	9.0	8.6	8.2
	35 + 35	3.00	3.00	-	3.0	6.0	6.5	570	1960	2150	9.0	8.6	8.2
	35 + 50	2.47	3.53	-	3.0	6.0	6.5	570	1960	2150	9.0	8.6	8.2
	20 + 20 + 20	1.67	1.67	1.67	3.4	5.0	7.1	690	1050	2150	5.2	5.0	4.8
	20 + 20 + 25	1.60	1.60	2.00	3.4	5.2	7.1	690	1160	2150	5.7	5.5	5.2
	20 + 20 + 35	1.49	1.49	2.61	3.4	5.6	7.1	690	1330	2150	6.5	6.2	5.9
3 units	20 + 25 + 25	1.54	1.93	1.93	3.4	5.4	7.1	690	1260	2150	6.2	5.9	5.6
"	20 + 25 + 35	1.45	1.81	2.54	3.4	5.8	7.1	690	1430	2150	6.9	6.6	6.3
	25 + 25 + 25	1.87	1.87	1.87	3.4	5.6	7.1	690	1330	2150	6.5	6.2	5.9
	25 + 25 + 35	1.76	1.76	2.47	3.4	6.0	7.1	690	1490	2150	7.1	6.9	6.5

			H	leating ca	pacity (kV	V)		Power	consumpt	ion (W)	Stand	dard curre	nt (A)
Indoor (Indoor	unit capac	ity (kW)	Tota	l capacity	(kW)	Min.	Standard	Max.	220V	230V	240V
		Α	В	С	Min.	Standard	max.	IVIIII.	Standard	IVIAA.	2200	2300	240V
	20	3.0	-	-	1.4	3.0	3.7	480	820	1100	4.1	3.9	3.7
1	25	3.4	-	-	1.4	3.4	4.2	480	980	1240	4.9	4.7	4.5
unit	35	4.5	-	-	1.4	4.5	5.0	480	1280	1490	6.3	6.0	5.8
	50	5.8	-	-	1.4	5.8	6.2	480	1740	2260	8.0	7.6	7.3
	20 + 20	2.95	2.95	-	2.0	5.9	7.3	540	1480	2580	7.1	6.8	6.5
	20 + 25	2.67	3.33	-	2.0	6.0	7.3	540	1530	2580	7.3	6.9	6.7
	20 + 35	2.29	4.01	-	2.0	6.3	7.3	540	1620	2580	7.6	7.2	6.9
	20 + 50	1.89	4.71	-	2.0	6.6	7.3	540	1710	2580	7.9	7.5	7.2
2 units	25 + 25	3.05	3.05	-	2.0	6.1	7.3	540	1560	2580	7.4	7.0	6.8
dillo	25 + 35	2.67	3.73	-	2.0	6.4	7.3	540	1650	2580	7.7	7.3	7.0
	25 + 50	2.20	4.40	-	2.0	6.6	7.3	540	1710	2580	7.9	7.5	7.2
	35 + 35	3.30	3.30	-	2.0	6.6	7.3	540	1710	2580	7.9	7.5	7.2
	35 + 50	2.72	3.88	-	2.0	6.6	7.3	540	1710	2580	7.9	7.5	7.2
	20 + 20 + 20	2.00	2.00	2.00	3.0	6.0	7.5	600	1240	2580	6.2	5.9	5.7
	20 + 20 + 25	1.91	1.91	2.38	3.0	6.2	7.5	600	1400	2580	6.8	6.5	6.2
	20 + 20 + 35	1.76	1.76	3.08	3.0	6.6	7.5	600	1560	2580	7.4	7.0	6.8
3 units	20 + 25 + 25	1.83	2.29	2.29	3.0	6.4	7.5	600	1470	2580	7.0	6.7	6.5
2.110	20 + 25 + 35	1.70	2.13	2.98	3.0	6.8	7.5	600	1620	2580	7.6	7.2	6.9
	25 + 25 + 25	2.20	2.20	2.20	3.0	6.6	7.5	600	1560	2580	7.4	7.0	6.8
	25 + 25 + 35	2.06	2.06	2.88	3.0	7.0	7.5	600	1690	2580	7.8	7.5	7.2

(b) Indoor unit SKM ** ZSP-S models only

<Cooling>

Ī				Cooling ca	pacity (kV	V)		Power	consumpt	ion (W)	Stand	dard curre	nt (A)
Indoor (Indoor	unit capac	ity (kW)	Tota	l capacity	(kW)	Min.	Standard	Max.	220V	230V	240V
		Α	В	С	Min.	Standard	max.	IWIIII.	Standard	Wax.	2200	2304	2400
	20	2.0	-	-	1.8	2.0	2.7	500	610	900	3.0	2.9	2.8
1 unit	25	2.5	-	-	1.8	2.5	3.2	500	800	1070	4.0	3.8	3.7
uriit	35	3.5	-	-	1.8	3.5	3.7	500	1170	1230	5.8	5.6	5.3
	20 + 20	2.00	2.00	-	3.0	4.0	5.6	570	1000	1800	5.0	4.8	4.6
	20 + 25	1.91	2.39	-	3.0	4.3	5.8	570	1150	1980	5.7	5.5	5.2
2	20 + 35	1.82	3.18	-	3.0	5.0	6.1	570	1530	2070	7.4	7.0	6.7
units	25 + 25	2.35	2.35	-	3.0	4.7	6.1	570	1520	2070	7.4	7.1	6.8
	25 + 35	2.21	3.09	-	3.0	5.3	6.3	570	1720	2150	8.1	7.8	7.5
	35 + 35	3.00	3.00	-	3.0	6.0	6.3	570	2050	2150	9.4	9.0	8.6
	20 + 20 + 20	1.67	1.67	1.67	3.4	5.0	6.9	690	1160	2150	5.8	5.5	5.3
	20 + 20 + 25	1.60	1.60	2.00	3.4	5.2	6.9	690	1250	2150	6.2	5.9	5.6
	20 + 20 + 35	1.49	1.49	2.61	3.4	5.6	6.9	690	1400	2150	6.8	6.5	6.2
3 units	20 + 25 + 25	1.54	1.93	1.93	3.4	5.4	6.9	690	1350	2150	6.6	6.3	6.0
u.iito	20 + 25 + 35	1.45	1.81	2.54	3.4	5.8	6.9	690	1500	2150	7.2	6.9	6.6
	25 + 25 + 25	1.87	1.87	1.87	3.4	5.6	6.9	690	1400	2150	6.8	6.5	6.2
	25 + 25 + 35	1.76	1.76	2.47	3.4	6.0	6.9	690	1600	2150	7.7	7.3	7.0

			F	leating ca	pacity (kV	V)		Power	consumpt	ion (W)	Stand	dard curre	nt (A)
Indoor (Indoor	unit capac	ity (kW)	Tota	al capacity	(kW)	Min.	Standard	Max.	220V	230V	240V
		Α	В	С	Min.	Standard	max.	IVIIII.	Standard	Wax.	2200	2304	2401
4	20	3.0	-	-	1.4	3.0	3.5	480	1040	1100	5.2	4.9	4.7
unit	25	3.4	-	-	1.4	3.4	4.0	480	1200	1240	6.0	5.7	5.5
	35	4.5	-	-	1.4	4.5	5.0	480	1490	1490	7.4	7.0	6.7
	20 + 20	2.95	2.95	-	2.0	5.9	7.0	540	1530	2580	7.3	7.0	6.7
	20 + 25	2.67	3.33	-	2.0	6.0	7.0	540	1580	2580	7.5	7.2	6.9
2	20 + 35	2.29	4.01	-	2.0	6.3	7.0	540	1670	2580	7.8	7.5	7.2
units	25 + 25	3.05	3.05	-	2.0	6.1	7.0	540	1610	2580	7.6	7.3	7.0
	25 + 35	2.67	3.73	-	2.0	6.4	7.0	540	1700	2580	7.9	7.6	7.3
	35 + 35	3.30	3.30	-	2.0	6.6	7.0	540	1760	2580	8.1	7.8	7.4
	20 + 20 + 20	2.00	2.00	2.00	3.0	6.0	7.3	600	1360	2580	6.8	6.5	6.2
	20 + 20 + 25	1.91	1.91	2.38	3.0	6.2	7.3	600	1450	2580	7.0	6.7	6.4
0	20 + 20 + 35	1.76	1.76	3.08	3.0	6.6	7.3	600	1620	2580	7.6	7.3	7.0
3 units	20 + 25 + 25	1.83	2.29	2.29	3.0	6.4	7.3	600	1530	2580	7.3	7.0	6.7
	20 + 25 + 35	1.70	2.13	2.98	3.0	6.8	7.3	600	1680	2580	7.9	7.5	7.2
	25 + 25 + 25	2.20	2.20	2.20	3.0	6.6	7.3	600	1620	2580	7.6	7.3	7.0
	25 + 25 + 35	2.06	2.06	2.88	3.0	7.0	7.3	600	1750	2580	8.1	7.7	7.4

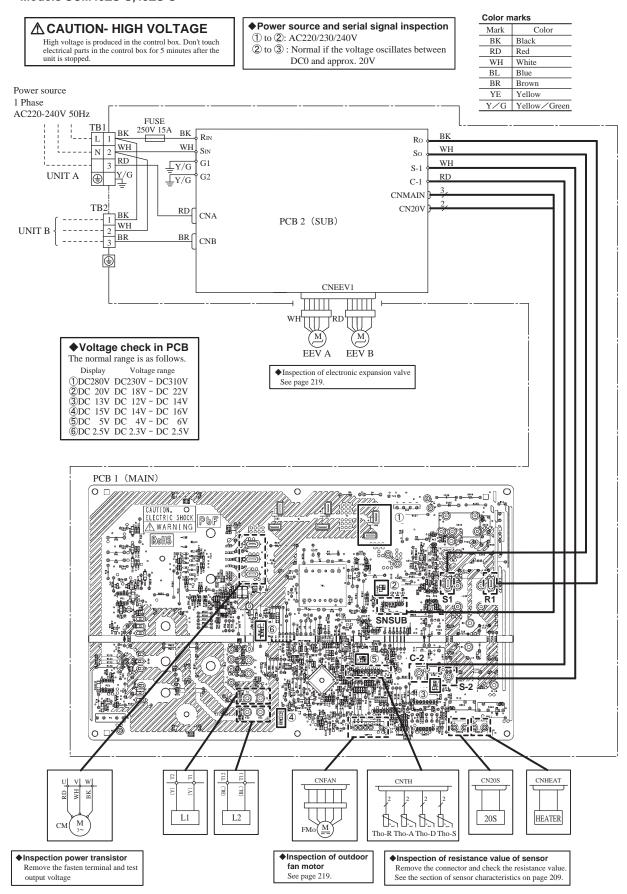
(c) Indoor unit except SRK * * ZMX-S and SKM * * ZSP-S models

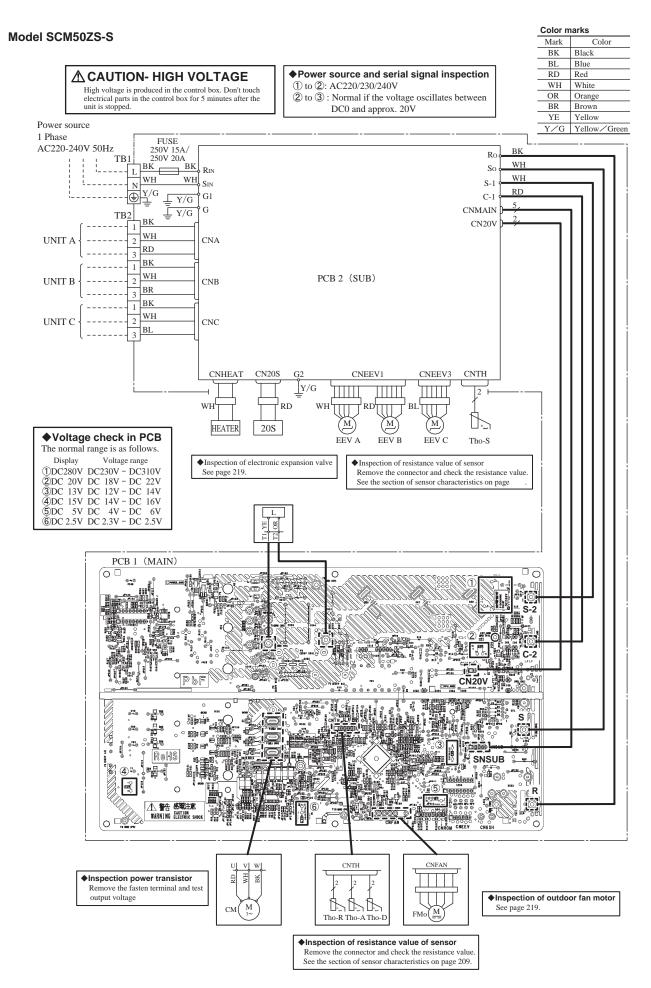
<Cooling>

	_		C	cooling ca	pacity (kV	V)		Power	consumpt	ion (W)	Stand	dard curre	nt (A)
Indoor of combin		Indoor	unit capac	ity (kW)	Tota	l capacity	(kW)	Min.	Standard	Max.	220V	230V	240V
		Α	В	С	Min.	Standard	max.	IVIIII.	Stariuaru	IVIAA.	2200	2304	240 V
	20	2.0	-	-	1.8	2.0	2.7	500	580	900	2.9	2.8	2.6
1	25	2.5	-	-	1.8	2.5	3.2	500	760	1070	3.8	3.6	3.5
unit	35	3.5	-	-	1.8	3.5	3.7	500	1140	1230	5.7	5.4	5.2
	50	5.0	-	-	1.8	5.0	5.3	500	1790	2000	8.4	8.0	7.7
	20 + 20	2.00	2.00	-	3.0	4.0	5.6	570	950	1800	4.7	4.5	4.3
	20 + 25	1.91	2.39	-	3.0	4.3	5.8	570	1110	1980	5.5	5.3	5.1
	20 + 35	1.82	3.18	-	3.0	5.0	6.1	570	1490	2070	7.2	6.9	6.6
	20 + 50	1.71	4.29	-	3.0	6.0	6.3	570	2040	2150	9.4	9.0	8.6
2 units	25 + 25	2.35	2.35	-	3.0	4.7	6.1	570	1320	2070	6.4	6.2	5.9
dillo	25 + 35	2.21	3.09	-	3.0	5.3	6.3	570	1660	2150	7.9	7.5	7.2
	25 + 50	2.00	4.00	-	3.0	6.0	6.3	570	2040	2150	9.4	9.0	8.6
	35 + 35	3.00	3.00	-	3.0	6.0	6.3	570	2040	2150	9.4	9.0	8.6
	35 + 50	2.47	3.53	-	3.0	6.0	6.5	570	2040	2150	9.4	9.0	8.6
	20 + 20 + 20	1.67	1.67	1.67	3.4	5.0	6.9	690	1120	2150	5.6	5.3	4.5
	20 + 20 + 25	1.60	1.60	2.00	3.4	5.2	6.9	690	1200	2150	5.9	5.7	5.4
	20 + 20 + 35	1.49	1.49	2.61	3.4	5.6	6.9	690	1370	2150	6.6	6.4	6.1
3 units	20 + 25 + 25	1.54	1.93	1.93	3.4	5.4	6.9	690	1300	2150	6.3	6.1	5.8
G. III.O	20 + 25 + 35	1.45	1.81	2.54	3.4	5.8	6.9	690	1470	2150	7.1	6.8	6.5
	25 + 25 + 25	1.87	1.87	1.87	3.4	5.6	6.9	690	1370	2150	6.6	6.4	6.1
	25 + 25 + 35	1.76	1.76	2.47	3.4	6.0	6.9	690	1540	2150	7.4	7.0	6.8

			F	leating ca	pacity (kV	V)		Power	consumpt	ion (W)	Stand	dard curre	nt (A)
Indoor combin		Indoor	unit capac	ity (kW)	Tota	al capacity	(kW)	Min.	Standard	Max.	220V	230V	240V
		Α	В	С	Min.	Standard	max.	IVIIII.	Statiuaru	IVIAX.	2200	2300	240 V
	20	3.0	-	-	1.4	3.0	3.5	480	1020	1100	5.1	4.9	4.6
1	25	3.4	-	-	1.4	3.4	4.0	480	1180	1240	5.9	5.6	5.4
unit	35	4.5	-	-	1.4	4.5	4.8	480	1470	1490	7.3	6.9	6.7
	50	5.8	-	-	1.4	5.8	6.0	480	1910	2260	8.8	8.4	8.0
	20 + 20	2.95	2.95	-	2.0	5.9	7.0	540	1510	2580	7.2	6.9	6.6
	20 + 25	2.67	3.33	-	2.0	6.0	7.0	540	1560	2580	7.4	7.1	6.8
	20 + 35	2.29	4.01	-	2.0	6.3	7.0	540	1650	2580	7.7	7.4	7.1
	20 + 50	1.89	4.71	-	2.0	6.6	7.0	540	1740	2580	8.0	7.7	7.4
2 units	25 + 25	3.05	3.05	-	2.0	6.1	7.0	540	1590	2580	7.5	7.2	6.9
unito	25 + 35	2.67	3.73	-	2.0	6.4	7.0	540	1680	2580	7.8	7.5	7.2
	25 + 50	2.20	4.40	-	2.0	6.6	7.0	540	1740	2580	8.0	7.7	7.4
	35 + 35	3.30	3.30	-	2.0	6.6	7.0	540	1740	2580	8.0	7.7	7.4
	35 + 50	2.72	3.88	-	2.0	6.6	7.0	540	1740	2580	8.0	7.7	7.4
	20 + 20 + 20	2.00	2.00	2.00	3.0	6.0	7.3	600	1340	2580	6.7	6.4	6.1
	20 + 20 + 25	1.91	1.91	2.38	3.0	6.2	7.3	600	1430	2580	6.9	6.6	6.4
	20 + 20 + 35	1.76	1.76	3.08	3.0	6.6	7.3	600	1600	2580	7.6	7.2	6.9
3 units	20 + 25 + 25	1.83	2.29	2.29	3.0	6.4	7.3	600	1510	2580	7.2	6.9	6.6
uiiio	20 + 25 + 35	1.70	2.13	2.98	3.0	6.8	7.3	600	1660	2580	7.8	7.4	7.1
	25 + 25 + 25	2.20	2.20	2.20	3.0	6.6	7.3	600	1600	2580	7.6	7.2	6.9
	25 + 25 + 35	2.06	2.06	2.88	3.0	7.0	7.3	600	1730	2580	8.0	7.7	7.3

(12) Outdoor unit inspection points Models SCM40ZS-S,45ZS-S

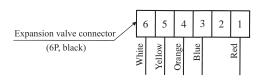




(a) Inspection of electronic expansion valve

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 sub 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	
1-4	$46\pm4\Omega$
1-3	(at 20°C)
1-5	

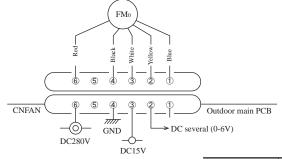
(b) Outdoor fan motor check procedure

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

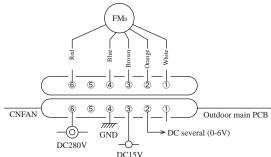
If the voltage is not detected, the outdoor main PCB is defective but the fan motor is normal.

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





Model SCM50



Measuring point	Resistance when normal
6 - 4	DC280V
3 - 4	DC15V
2 - 4	DC several V(0-6V)

(ii) Fan motor resistance check

Models SCM40, 45

Measuring point	Resistance when normal
6-4(Red - Black)	20 M Ω or higher
3-4(White - Black)	20 k Ω or higher

Model SCM50

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

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

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

11. TECHNICAL INFORMATION (1) Model SCM40ZS-S

(1) Model SCM40ZS-	_			
Information to identify the model(s)				
ndoor unit model name	SRK20ZMX-S x 2	information relates to. Indicated va		
Outdoor unit model name	SCM40ZS-S	heating season at a time. Include	at least the heating seas	on 'Averag
function(indicate if present)		Average(mandatory)	Yes	
ooling	Yes	Warmer(if designated)	No	
eating	Yes	Colder(if designated)	No	
tem Design load	symbol value unit	Item Seasonal efficiency and energy ef	symbol value	class
cooling	Pdesignc 4.00 kW	cooling	SEER 6.31	A++
neating / Average	Pdesignh 3.30 kW	heating / Average	SCOP/A 4.05	A+
neating / Warmer	Pdesignh - kW	heating / Warmer	SCOP/W -	-
neating / Colder	Pdesignh - kW	heating / Colder	SCOP/C -	-
D d		Dealers beating and site of autolo		unit
Declared capacity at outdoor temper neating / Average (-10°C)	Pdh 3.30 kW	Back up heating capacity at outdo heating / Average (-10°C)	elbu 0	kW
neating / Warmer (2°C)	Pdh - kW	heating / Warmer (2°C)	elbu -	kW
neating / Colder (-22°C)	Pdh - kW	heating / Colder (-22°C)	elbu -	kW
			•	
Declared capacity for cooling, at inc	door temperature 27(19)°C and	Declared energy efficiency ratio, a	at indoor temperature 27	(19)℃ and
outdoor temperature Tj Tj=35°C	Pdc 4.00 kW	outdoor temperature Tj	EERd 4.70	_
]=30℃	Pdc 2.80 kW	Tj=30°C	EERd 7.00	⊣:
rj=35°C	Pdc 3.00 kW	Tj=25°C	EERd 8.80	⊣ ₋
j=20°C	Pdc 3.20 kW	Tj=20°C	EERd 8.00	− -
Declared capacity for heating / Ave		Declared coefficient of performance		ndoor
emperature 20°C and outdoor temp Fi=-7°C	perature Tj Pdh 3.00 kW	temperature 20°C and outdoor tem	nperature Tj COPd 2.85	٦.
Γj=-7 C Γj=2°C	Pdh 1.80 kW	Ti=7°C	COPd 2.85 COPd 3.95	⊣ _
rj=2°C	Pdh 1.80 kW	Tj=7°C	COPd 5.50	⊣ ₋
-j=12°C	Pdh 2.60 kW	Tj=12°C	COPd 7.00	⊣ -
rj=bivalent temperature	Pdh 3.30 kW	Tj=bivalent temperature	COPd 2.65	<u> </u>
Γj=operating limit	Pdh 3.30 kW	Tj=operating limit	COPd 2.65]-
Declared conscitutor bacting / Man	mar access at indeer	Declared coefficient of performance	a / Marmar again at i	
Declared capacity for heating / War emperature 20°C and outdoor temp		Declared coefficient of performance temperature 20°C and outdoor tem		10001
j=2°C	Pdh - kW	Tj=2°C	COPd -	
rj=7°C	Pdh - kW	Tj=7°C	COPd -	⊣ -
Γj=12°C	Pdh - kW	Tj=12°C	COPd -	-
Γj=bivalent temperature	Pdh - kW	Tj=bivalent temperature	COPd -	
Γj=operating limit	Pdh - kW	Tj=operating limit	COPd -	-
Declared capacity for heating / Cold	der season, at indoor	Declared coefficient of performance	ce / Colder season, at inc	loor
emperature 20°C and outdoor temp		temperature 20°C and outdoor tem		2001
Гј=-7°С	Pdh - kW	Tj=-7°C	COPd -	-
Γj=2°C	Pdh - kW	Tj=2°C	COPd -	
Γj=7°C	Pdh - kW	Tj=7°C	COPd -	
Γj=12°C	Pdh - kW	Tj=12°C	COPd -	_ -
Fj=bivalent temperature	Pdh - kW Pdh - kW	Tj=bivalent temperature	COPd -	⊣ ⁻
「j=operating limit 「i=-15°C	Pdh - kW Pdh - kW	Tj=operating limit Tj=-15°C	COPd -	[
<u>j=-13 C</u>	Turi - RVV	1]=-13 0	0014 -	
Bivalent temperature		Operating limit temperature		
neating / Average	Tbiv -10 °C	heating / Average	Tol -15	°C
neating / Warmer	Tbiv - °C	heating / Warmer	Tol -	°C
neating / Colder	Tbiv - °C	heating / Colder	Tol -	°C
Cycling interval capacity		Cycling interval efficiency		
or cooling	Pcycc - kW	for cooling	EERcyc -	
or heating	Pcych - kW	for heating	COPcyc -	<u> </u>
			•	
Degradation coefficient	Cdo 0.25	Degradation coefficient	Calls 0.2E	-
ooling	Cdc 0.25 -	heating	Cdh 0.25	<u> </u>
Electric power input in power mode	s other than 'active mode	Annual electricity consumption		
off mode	Poff 8 W	cooling	Qce 222	kWh/a
standby mode	Psb 8 W	heating / Average	Qhe 1140	kWh/a
hermostat-off mode	Pto 22 W	heating / Warmer	Qhe -	kWh/a
rankcase heater mode	Pck 0 W	heating / colder	Qhe -	kWh/a
Capacity control(indicate one of thr	ee ontions)	Other items		
papacity control(indicate one of the	ee options)	Sound power level(indoor)	Lwa 53	dB(A)
		Sound power level(outdoor)	Lwa 62	dB(A)
ixed	No	Global warming potential	GWP 1975	kgCO2e
staged	No	Rated air flow(indoor)	- 690	m3/h
rariable	Yes	Rated air flow(outdoor)	- 1950	m3/h
Contact details for obtaining		manufacturer or of its authorised represe	entative	
	ubishi Heavy Industries Air-Cond Jundwood Avenue, Stockley Par	k, Uxbridge, Middlesex, UB11 1AX		
	ed Kingdom	., Sabriago, Middioson, ODTT TAX		
51110	J			

Information to identify the model(s) to will Indoor unit model name	SRK20ZS	S-S x 2	relates to	If function includes heating: Indicate the information relates to. Indicated values	should rela	te to one	
Outdoor unit model name	SCM40ZS	S-S		heating season at a time. Include at least	st the heati	ng season	ı 'Average'
Function(indicate if present)				Average(mandatory)	Yes		
cooling	Yes			Warmer(if designated)	No		
heating	Yes			Colder(if designated)	No		
Item	symbol	value	unit	Item	symbol	value	class
Design load	5		7	Seasonal efficiency and energy efficience			
cooling heating / Average	Pdesignc Pdesignh	4.00 3.60	kW kW	cooling heating / Average	SEER SCOP/A	5.72 4.04	A+ A+
heating / Warmer	Pdesignh	3.00	kW	heating / Warmer	SCOP/W	-	-
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C	-	-
			•				unit
Declared capacity at outdoor temperature heating / Average (-10°C)	re Tdesign Pdh	h 3.60	kW	Back up heating capacity at outdoor ten heating / Average (-10°C)	nperature 1 elbu	designh 0	kW
heating / Warmer (2°C)	Pdh	3.00	kW	heating / Warmer (2°C)	elbu	-	kW
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	-	kW
							<u>'</u>
Declared capacity for cooling, at indoor outdoor temperature Tj	temperatui	re 27(19)°	C and	Declared energy efficiency ratio, at indo outdoor temperature Tj	or tempera	iture 27(19	9)℃ and
Tj=35°C	Pdc	4.00	kW	Ti=35°C	EERd	3.80	1-
Tj=30°C	Pdc	2.90	kW	Tj=30°C	EERd	5.95	-
Tj=25°C	Pdc	2.80	kW	Tj=25°C	EERd	8.30]-
Tj=20°C	Pdc	3.20	kW	Tj=20°C	EERd	7.20	-
Declared capacity for heating / Average	sesson of	tindoor	1	Declared coefficient of performance / Av	/erage coo	son at ind	loor
temperature 20°C and outdoor tempera		muuul		temperature 20°C and outdoor temperat		our, at 1110	1001
Tj=-7°C	Pdh	3.00	kW	Tj=-7°C	COPd	2.75]-
Tj=2°C	Pdh	1.90	kW	Tj=2°C	COPd	4.10	-
Tj=7°C	Pdh	2.10	kW	Tj=7°C	COPd	5.35	-
Tj=12°C Tj=bivalent temperature	Pdh Pdh	2.80 3.60	kW kW	Tj=12°C Tj=bivalent temperature	COPd COPd	6.45 2.30	-
Tj=operating limit	Pdh	3.30	kW	Tj=operating limit	COPd	2.35	- -
T, speraning mine							
Declared capacity for heating / Warmer		indoor		Declared coefficient of performance / W		son, at ind	oor
temperature 20°C and outdoor tempera Tj=2°C	rure 1j Pdh	_	kW	temperature 20°C and outdoor temperat Tj=2°C	COPd		1_
Tj=7°C	Pdh	-	kW	Ti=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	-	-
Declared capacity for heating / Colders	eason, at i	ndoor		Declared coefficient of performance / Co	older seaso	on, at indo	or
temperature 20°C and outdoor tempera			_	temperature 20°C and outdoor temperat			
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°C Tj=12°C	COPd COPd	-	[
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	-
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-]-
Tj=-15°C	Pdh	-	kW	Tj=-15°C	COPd	-	-
Bivalent temperature				Operating limit temperature			
heating / Average	Tbiv	-10	°c	heating / Average	Tol	-15	°C
heating / Warmer	Tbiv	-	°C	heating / Warmer	Tol	-	°C
heating / Colder	Tbiv	-	°C	heating / Colder	Tol	-	°C
Cycling interval capacity			1	Cycling interval efficiency			
for cooling	Pcycc	-	kW	for cooling	EERcyc	-]-
for heating	Pcych	-	kW	for heating	COPcyc	-	-
D							
Degradation coefficient cooling	Cdc	0.25	1_	Degradation coefficient heating	Cdh	0.25	1_
Cooming	Ouc	0.20		neating	Ouri	0.20	
Electric power input in power modes of				Annual electricity consumption	_		1
off mode	Poff	9	W	cooling	Qce	245	kWh/a
standby mode thermostat-off mode	Psb Pto	9 14	W	heating / Average heating / Warmer	Qhe Qhe	1249	kWh/a kWh/a
crankcase heater mode	Pck	0	W	heating / valine	Qhe	-	kWh/a
Capacity control(indicate one of three of	ptions)			Other items	Lwa		dD(A)
				Sound power level(indoor) Sound power level(outdoor)	Lwa Lwa	50 62	dB(A) dB(A)
fixed	No			Global warming potential	GWP	1975	kgCO2eq.
staged	No			Rated air flow(indoor)	-	558	m3/h
variable	Yes			Rated air flow(outdoor)	-	1950	m3/h
Contact details for cht-i-i	Now	d add	of the comme	uniform was as of its publication of a second secon			
Contact details for obtaining more information Mitsubisl				ufacturer or of its authorised representative ining Europe, Ltd.	/e		
7 Round	wood Aven			xbridge, Middlesex, UB11 1AX			
United K	ingdom						
						PWC00	00Z291 <u>A</u>

Information to identify the model(s) to v	SKM20ZS	SP-S x 2	relates to	If function includes heating: Indicate the information relates to. Indicated values	should rela	te to one	
Outdoor unit model name	SCM40ZS	o-8		heating season at a time. Include at least	st the neati	ng season	Average
Function(indicate if present)				Average(mandatory)	Yes		
cooling heating	Yes Yes			Warmer(if designated) Colder(if designated)	No No		
neating	162			Colder(ii designated)	NO		
Item	symbol	value	unit	Item	symbol	value	class
Design load	Б	4.00	7	Seasonal efficiency and energy efficience			
cooling heating / Average	Pdesignc Pdesignh	4.00 3.60	kW kW	cooling heating / Average	SEER SCOP/A	5.70 4.02	A+ A+
heating / Warmer	Pdesignh	-	kW	heating / Warmer	SCOP/W	-	-
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C	-	-
Delegation of the state of the	Tila	L-		Deline heating and its of address to		al a a l'accala	unit
Declared capacity at outdoor temperature heating / Average (-10°C)	re raesign Pdh	3.60	kW	Back up heating capacity at outdoor ten heating / Average (-10°C)	iperature i elbu	aesignn 0	kW
heating / Warmer (2°C)	Pdh	-	kW	heating / Warmer (2°C)	elbu	-	kW
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	-	kW
Delegad associate for a selice at the description		07(40) 9	01	D-ddd		.t 07/4/	N 90 I
Declared capacity for cooling, at indoor outdoor temperature Tj	temperatui	e 27(19)	C and	Declared energy efficiency ratio, at indo outdoor temperature Tj	or tempera	iture 27(18	a) C and
Tj=35°C	Pdc	4.00	kW	Tj=35°C	EERd	3.75	-
Tj=30°C	Pdc	2.90	kW	Tj=30°C	EERd	5.85	-
Tj=25°C	Pdc	2.80	kW	Tj=25°C	EERd	8.20	-
Tj=20°C	Pdc	3.20	kW	Tj=20°C	EERd	7.10	-
Declared capacity for heating / Average	e season, at	tindoor		Declared coefficient of performance / Av	/erage sea	son, at ind	oor
temperature 20°C and outdoor tempera	ture Tj			temperature 20°C and outdoor temperat	ure Tj		,]
Tj=-7°C	Pdh	3.00	kW	Tj=-7°C	COPd	2.75	-
Tj=2°C Tj=7°C	Pdh Pdh	1.90 2.10	kW kW	Tj=2°C Tj=7°C	COPd COPd	4.10 5.30	-
Tj=12°C	Pdh	2.80	kW	Tj=7 C Tj=12°C	COPd	6.35	[
Tj=bivalent temperature	Pdh	3.60	kW	Tj=bivalent temperature	COPd	2.30	-
Tj=operating limit	Pdh	3.30	kW	Tj=operating limit	COPd	2.35	-
Declared capacity for heating / Warmer	coopen of	indoor		Declared coefficient of performance / W	ormor ooo	on ot ind	oor
temperature 20°C and outdoor tempera		iiiuooi		temperature 20°C and outdoor temperat		son, at mu	001
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 Pdh	-	kW kW	Tj=bivalent temperature Tj=operating limit	COPd COPd		_
,							
Declared capacity for heating / Colder s		ndoor		Declared coefficient of performance / Co		on, at indo	or
temperature 20°C and outdoor tempera Ti=-7°C	ture 1j Pdh	_	kW	temperature 20°C and outdoor temperat	ure IJ COPd		ı <u>. </u>
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 Tj=-15°C	Pdh Pdh	-	kW kW	Tj=operating limit Tj=-15°C	COPd COPd	-	-
1]=-13 C	ruii	_	KVV	[1]=-13 C	COFU		-
Bivalent temperature			_	Operating limit temperature			
heating / Average	Tbiv	-10	°C	heating / Average	Tol	-15	°C
heating / Warmer	Tbiv	-	တိ	heating / Warmer	Tol Tol	-	ိုင လ
heating / Colder	Tbiv	-	C	heating / Colder	101	-	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	-
Floatric nover input in never modes at	har than !aa	tive meda		[Annual algebricky consumption			
Electric power input in power modes ot off mode	her than 'ac Poff	tive mode	w	Annual electricity consumption cooling	Qce	246	kWh/a
standby mode	Psb	8	W	heating / Average	Qhe	1253	kWh/a
thermostat-off mode	Pto	13	W	heating / Warmer	Qhe	-	kWh/a
crankcase heater mode	Pck	0	W	heating / colder	Qhe	-	kWh/a
Capacity control(indicate one of three of	ntions)			Other items			
Capacity control(indicate one of tiffee C	γμιστιο)			Sound power level(indoor)	Lwa	58	dB(A)
				Sound power level(outdoor)	Lwa	62	dB(A)
fixed	No			Global warming potential	GWP	1975	kgCO2eq.
staged	No			Rated air flow(indoor)	-	510	m3/h
variable	Yes			Rated air flow(outdoor)	-	1950	m3/h
Contact details for obtaining	Name and	d address	of the man	nufacturer or of its authorised representative	/e		
more information Mitsubis	hi Heavy In	dustries A	ir-Conditio	ning Europe, Ltd.			
7 Round United K		ue, Stockl	ey Park, U	xbridge, Middlesex, UB11 1AX			
Offited K	iguUIII						
-						RWC00	0Z291 <u>A</u>

(2) Model SCM45ZS-					
Information to identify the model(s)					
ndoor unit model name	SRK20ZMX-S + SRK25ZMX SCM45ZS-S				. ! ^
Outdoor unit model name	SCM4525-5	heating season at a time. Include a	at least the neating	seasor	n Averag
Function(indicate if present)		Average(mandatory)	Yes		
cooling	Yes	Warmer(if designated)	No		
neating	Yes	Colder(if designated)	No		
t		14		1	-1
tem Design load	symbol value unit	Item Seasonal efficiency and energy eff		lue	class
cooling	Pdesignc 4.50 kW	cooling		6.43	A++
neating / Average	Pdesignh 4.10 kW	heating / Average		4.11	A+
neating / Warmer	Pdesignh - kW	heating / Warmer	SCOP/W	-	-
neating / Colder	Pdesignh - kW	heating / Colder	SCOP/C	-	-
	national Talancians	Deele on beeting and other translation		a tama ta	unit
Declared capacity at outdoor temper neating / Average (-10°C)	Pdh 4.10 kW	Back up heating capacity at outdoon heating / Average (-10°C)	elbu	signn 0	kW
neating / Warmer (2°C)	Pdh - kW	heating / Warmer (2°C)	elbu	-	kW
neating / Colder (-22°C)	Pdh - kW	heating / Colder (-22°C)	elbu	-	kW
· · · · · ·	-				1
Declared capacity for cooling, at inc	loor temperature 27(19)°C and	Declared energy efficiency ratio, a	t indoor temperatur	e 27(1	9)°C and
outdoor temperature Tj	D	outdoor temperature Tj	FED.1	1.00	7
-j=35°C -i=30°C	Pdc 4.50 kW	Tj=35°C		4.30	 -
Γj=30°C Γj=25°C	Pdc 3.20 kW Pdc 2.95 kW	Tj=30°C Tj=25°C		6.75 9.15	-[
j=25 C 'j=20°C	Pdc 2.95 kW	Tj=25 C Ti=20°C		8.00	1_
j-20 0	1 do 3.20 KVV		LLINU	5.00	1
Declared capacity for heating / Ave	rage season, at indoor	Declared coefficient of performance	ce / Average seasor	n, at inc	door
emperature 20°C and outdoor temp	perature Tj	temperature 20°C and outdoor tem	nperature Tj		_
Γj=-7°C	Pdh 3.60 kW	Tj=-7°C		2.85	<u> </u> -
Γj=2°C	Pdh 2.20 kW	Tj=2°C		4.00	1-
Γj=7°C	Pdh 1.90 kW	Tj=7°C		5.50	- 1-
Γj=12°C	Pdh 2.60 kW	Tj=12°C		7.00	- 1
Γj=bivalent temperature Γj=operating limit	Pdh 4.10 kW Pdh 4.10 kW	Tj=bivalent temperature Tj=operating limit		2.50	- 1
rj=operating iiriit	Faii 4.10 KW	Tj=operating limit	COFU	2.33	I
Declared capacity for heating / War	mer season, at indoor	Declared coefficient of performance	ce / Warmer season	, at inc	loor
emperature 20°C and outdoor temp		temperature 20°C and outdoor tem			
Γj=2°C	Pdh - kW	Tj=2°C	COPd	-]-
Γj=7°C	Pdh - kW	Tj=7°C	COPd	-]-
Γj=12°C	Pdh - kW	Tj=12°C	COPd	-	
Γj=bivalent temperature Γj=operating limit	Pdh - kW Pdh - kW	Tj=bivalent temperature Tj=operating limit	COPd COPd	-	<u> </u> -
. j operating iiiiii		ij oporazing iii.ii.	30. 4		ı
Declared capacity for heating / Cold		Declared coefficient of performance		at indo	or
emperature 20°C and outdoor temp		temperature 20°C and outdoor tem			-
Γj=-7°C	Pdh - kW	Tj=-7°C	COPd	-	<u> </u> -
Гј=2°С	Pdh - kW	Tj=2°C	COPd	-	-
Γj=7°C	Pdh - kW	Tj=7°C	COPd	-	<u> </u> -
Tj=12°C	Pdh - kW Pdh - kW	Tj=12°C	COPd COPd	-	- I
Гj=bivalent temperature Гj=operating limit	Pdh - kW	Tj=bivalent temperature Tj=operating limit	COPd	<u>-</u>	-
rj=operating limit rj=-15°C	Pdh - kW	Tj=-15°C	COPd		-1
<u></u>	T GIT	1)= 10 0	001 0		
Bivalent temperature		Operating limit temperature			
neating / Average	Tbiv -10 °C	heating / Average	Tol	-15	°C
neating / Warmer	Tbiv - °C	heating / Warmer	Tol	-	°C
neating / Colder	Tbiv - °C	heating / Colder	Tol	-	°C
Dualing internal		Cualing interval			
Cycling interval capacity or cooling	Pcycc - kW	Cycling interval efficiency for cooling	EERcyc	-	7.
or beating	Pcych - kW	for heating	COPcyc	-	1_
	. 0,0		301 Jy0		1
Degradation coefficient		Degradation coefficient			_
cooling	Cdc 0.25 -	heating	Cdh	0.25	ļ-
Tankin annual di	and an about 1000	Annual alores 2			
Electric power input in power mode		Annual electricity consumption	000	245]k\\/\b/\
off mode standby mode	Poff 8 W Psb 8 W	cooling heating / Average		245	kWh/a kWh/a
tandby mode hermostat-off mode	Pto 8 W	heating / Average	Qhe	1396	kWh/a
rankcase heater mode	Pck 0 W	heating / warmer	Qhe	-	kWh/a
			۵		,,a
Capacity control(indicate one of three	ee options)	Other items			
•		Sound power level(indoor)	Lwa	55	dB(A)
		Sound power level(outdoor)	Lwa	62	dB(A)
ixed	No	Global warming potential		1975	kgCO2
taged	No	Rated air flow(indoor)		750	m3/h
ariable	Yes	Rated air flow(outdoor)	- 1	1950	m3/h
Contact details for obtaining	Name and address of the	anufacturer or of its authorized reason	entative		
Contact details for obtaining nore information Mitsu	Name and address of the fr Ibishi Heavy Industries Air-Condi	nanufacturer or of its authorised represe tioning Europe I td	-iilaliv e		
		Uxbridge, Middlesex, UB11 1AX			
	d Kingdom	<u> </u>			
					00Z291/

Information to identify the model(s) to vindoor unit model name	SRK20ZS-S +		If function includes heating: Indicate the information relates to. Indicated values	should rela	te to one	
Outdoor unit model name	SCM45ZS-S		heating season at a time. Include at lea	st the heati	ng season	'Average'
Function(indicate if present)			Average(mandatory)	Yes		
cooling	Yes		Warmer(if designated)	No		
heating	Yes		Colder(if designated)	No		
Itom	symbol yalı	ıo unit	Itom	evmbol	value	class
Item Design load	symbol valu	ue unit	Item Seasonal efficiency and energy efficiency	symbol cv class	value	Class
cooling	Pdesignc 4	kW	cooling	SEER	5.80	A+
heating / Average	Pdesignh 4	kW	heating / Average	SCOP/A	4.08	A+
heating / Warmer	Pdesignh	- kW	heating / Warmer	SCOP/W	-	-
heating / Colder	Pdesignh	- kW	heating / Colder	SCOP/C	-	-
Declared capacity at outdoor temperate	ıre Tdesianh		Back up heating capacity at outdoor ten	nperature T	designh	unit
heating / Average (-10°C)		.20 kW	heating / Average (-10°C)	elbu	0	kW
heating / Warmer (2°C)	Pdh	- kW	heating / Warmer (2°C)	elbu	-	kW
heating / Colder (-22°C)	Pdh	- kW	heating / Colder (-22°C)	elbu	-	kW
Declared capacity for cooling, at indoor	tomporature 27	7/10\°C and	Declared energy efficiency ratio, at indo	or tompore	turo 27/10)\°C and
outdoor temperature Tj	temperature 21	(19) C and	outdoor temperature Tj	or rempera	itule 21 (18) C and
Tj=35°C	Pdc 4	kW	Tj=35°C	EERd	3.50	-
Tj=30°C		8.30 kW	Tj=30°C	EERd	5.90	-
Tj=25°C		2.80 kW	Tj=25°C	EERd	8.20	-
Tj=20°C	Pdc 3	3.20 kW	Tj=20°C	EERd	7.45	-
Declared capacity for heating / Average	e season, at ind	oor	Declared coefficient of performance / Av	/erage sea	son, at ind	oor
temperature 20°C and outdoor tempera			temperature 20°C and outdoor temperature		- J, GE 111U	
Tj=-7°C	Pdh 3	3. 72 kW	Tj=-7°C	COPd	2.60	-
Tj=2°C		2.26 kW	Tj=2°C	COPd	4.20	-
Tj=7°C		2.10 kW	Tj=7°C	COPd	5.40	-
Tj=12°C Tj=bivalent temperature		2.82 kW 3.20 kW	Tj=12°C Tj=bivalent temperature	COPd COPd	6.40 2.20	-
Tj=prvalent temperature Tj=operating limit		kW	Tj=blvalent temperature Tj=operating limit	COPd	2.20	_
Tj=operating iiriit	run -	KVV	rj-operating iimit	001 0	2.20	
Declared capacity for heating / Warmer		oor	Declared coefficient of performance / W		son, at ind	oor
temperature 20°C and outdoor tempera		1114	temperature 20°C and outdoor temperat			
Tj=2°C Ti=7°C	Pdh Pdh	- kW - kW	Tj=2°C Tj=7°C	COPd 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	-	-
	'					
Declared capacity for heating / Colder		or	Declared coefficient of performance / Co		on, at indo	or
temperature 20°C and outdoor tempera Tj=-7°C	Pdh	- kW	temperature 20°C and outdoor temperat	COPd	_	L
Tj=2°C	Pdh	- kW	Tj=7 C	COPd	-	_
Tj=7°C	Pdh	- kW	Tj=7°C	COPd	-	-
Tj=12°C	Pdh	- kW	Tj=12°C	COPd	-	-
Tj=bivalent temperature	Pdh	- kW	Tj=bivalent temperature	COPd	-	-
Tj=operating limit	Pdh	- kW	Tj=operating limit	COPd	-	-
Tj=-15°C	Pdh	- kW	Tj=-15°C	COPd	-	-
Bivalent temperature			Operating limit temperature			
heating / Average	Tbiv -	- 10 ℃	heating / Average	Tol	-15	°C
heating / Warmer	Tbiv	<u>-</u> ℃	heating / Warmer	Tol	-	°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			1
cooling	Cdc 0).25 -	heating	Cdh	0.25	-
Electric power input in power modes of	her than 'active	mode	Annual electricity consumption			
off mode	Poff	9 W	cooling	Qce	272	kWh/a
standby mode	Psb	9 W	heating / Average	Qhe	1441	kWh/a
thermostat-off mode		14 W	heating / Warmer	Qhe	-	kWh/a
crankcase heater mode	Pck	0 W	heating / colder	Qhe	-	kWh/a
Capacity control(indicate one of three of	ontione)		Other items			
Capacity control(illulcate offe of tiffee (γιισι ιδ)		Sound power level(indoor)	Lwa	52	dB(A)
			Sound power level(outdoor)	Lwa	62	dB(A)
fixed	No		Global warming potential	GWP	1975	kgCO2eq.
staged	No		Rated air flow(indoor)	-	594	m3/h
variable	Yes		Rated air flow(outdoor)	-	1950	m3/h
Contact details for obtaining	Name and ad	dress of the man	ufacturer or of its authorised representati	/P		
			ning Europe, Ltd.	v-C		
7 Round	wood Avenue,		xbridge, Middlesex, UB11 1AX			
United K	lingdom					
					B/WC00	0Z291 <u>A</u>
						I/A

Information to identify the model(s) to v Indoor unit model name Outdoor unit model name		SP-S + SKI	relates to W25ZSP-S	If function includes heating: Indicate the information relates to. Indicated values heating season at a time. Include at least	should rela	te to one	ı 'Average'
Function(indicate if present)				Average(mandatory)	Yes		
cooling	Yes			Warmer(if designated)	No		
heating	Yes			Colder(if designated)	No		
Item	symbol	value	unit	Item	symbol	value	class
Design load	Ddooiano	4.50	kW	Seasonal efficiency and energy efficience	cy class SEER	5.77	Λ.
cooling heating / Average	Pdesignc Pdesignh		kW	cooling heating / Average	SCOP/A	4.06	A+ A+
heating / Warmer	Pdesignh		kW	heating / Warmer	SCOP/W	-	-
heating / Colder	Pdesignh		kW	heating / Colder	SCOP/C	-	-
							unit
Declared capacity at outdoor temperate			TI-M	Back up heating capacity at outdoor tem		designh 0	121/1
heating / Average (-10°C) heating / Warmer (2°C)	Pdh Pdh	4.20	kW kW	heating / Average (-10°C) heating / Warmer (2°C)	elbu elbu	-	kW kW
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	-	kW
Declared capacity for cooling, at indoor	temperatu	re 27(19)°	C and	Declared energy efficiency ratio, at indo	or tempera	ture 27(19)°C and
outdoor temperature Tj			1	outdoor temperature Tj			
Tj=35°C	Pdc	4.50	kW	Tj=35°C	EERd	3.45	-
Tj=30°C Tj=25°C	Pdc Pdc	3.30 2.80	kW kW	Tj=30°C Tj=25°C	EERd EERd	5.75 8.00	-
Tj=20°C	Pdc	3.20	kW	Tj=20°C	EERd	7.25	
1]=20 0	i uc	3.20	KVV	13-20 0	LLING	7.25	
Declared capacity for heating / Average	e season, a	t indoor		Declared coefficient of performance / Av		son, at ind	oor
temperature 20°C and outdoor tempera	ture Tj		_	temperature 20°C and outdoor temperat	ure Tj		.
Tj=-7°C	Pdh	3.72	kW	Tj=-7°C	COPd	2.60	-
Tj=2°C	Pdh	2.26	kW	Tj=2°C	COPd	4.15	-
Tj=7°C	Pdh	2.10	kW	Tj=7°C	COPd	5.40	-
Tj=12°C	Pdh	2.82	kW	Tj=12°C	COPd	6.40	-
Tj=bivalent temperature Tj=operating limit	Pdh Pdh	4.20	kW kW	Tj=bivalent temperature Tj=operating limit	COPd COPd	2.20	
rj=operating iiriit	ruii	4.00	NVV	rj=operating limit	COFU	2.20	<u> </u>
Declared capacity for heating / Warme	season, at	indoor		Declared coefficient of performance / W	armer seas	son, at ind	oor
temperature 20°C and outdoor tempera			_	temperature 20°C and outdoor temperat			
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 COPd	-	-
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPa	-	-
Declared capacity for heating / Colder	season, at i	ndoor		Declared coefficient of performance / Co	older seaso	n. at indo	or
temperature 20°C and outdoor tempera				temperature 20°C and outdoor temperat		,	
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 COPd	-	-
Tj=operating limit Tj=-15°C	Pdh Pdh	-	kW kW	Tj=operating limit Tj=-15°C	COPd	-	-
1]=-13 C	ruii		NVV	TJ=-13 C	COFU		-
Bivalent temperature				Operating limit temperature			
heating / Average	Tbiv	-10	°C	heating / Average	Tol	-15	°C
heating / Warmer	Tbiv	-	°C	heating / Warmer	Tol	-	°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	-
	l 4l !	-4:		A			
Electric power input in power modes of off mode	ner than 'ac Poff	7	w I	Annual electricity consumption cooling	Qce	274	kWh/a
standby mode	Psb	7	W	heating / Average	Qhe	1450	kWh/a
thermostat-off mode	Pto	13	w	heating / Warmer	Qhe	-	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)
fixed	No			Sound power level(outdoor) Global warming potential	Lwa GWP	62 1975	dB(A)
fixed	No No			<u> </u>	GWP	510	kgCO2eq. m3/h
staged variable	Yes			Rated air flow(indoor) Rated air flow(outdoor)	-	1950	m3/h
	1 .00					.000	
Contact details for obtaining	Name an	d address	of the man	ufacturer or of its authorised representative	/e		
				ning Europe, Ltd.			
		ue, Stockl	ey Park, U	xbridge, Middlesex, UB11 1AX			
United K	iiigaom						
<u> </u>						RWC00	0Z291 <u>A</u>

(3) Model SCM50ZS-S

Information to identify the model(s) to indoor unit model name Dutdoor unit model name Function(indicate if present) Cooling Ineating Item Design load Cooling Ineating / Average	SRK25ZI SCM50ZI	MX-S x 2	relates to	If function includes heating: Indica			
Outdoor unit model name Function(indicate if present) cooling neating tem Design load cooling	SCM50Z				aluga abauld rala		
Function(indicate if present) cooling neating tem Design load cooling	Yes	S-S		information relates to. Indicated v	alues siloulu leia	te to one	
tem Design load				heating season at a time. Include	at least the heati	ng seaso	n 'Average
ooling leating leem Design load ooling							
neating tem Design load cooling				Average(mandatory) Warmer(if designated)	Yes No		
tem Design load cooling				Colder(if designated)	No		
Design load cooling	1.00			Colder (II designated)	140		
Design load cooling	symbol	value	unit	Item	symbol	value	class
9				Seasonal efficiency and energy e			
neating / Average	Pdesigno	5.00	kW	cooling	SEER	5.70	A+
	Pdesignh		kW	heating / Average	SCOP/A	3.84	Α
neating / Warmer	Pdesignh	1 -	kW	heating / Warmer	SCOP/W	-	-
neating / Colder	Pdesignh	1 -	kW	heating / Colder	SCOP/C	-	-
				1 -			unit
Declared capacity at outdoor temper			TLAM	Back up heating capacity at outdo			71.337
neating / Average (-10°C) neating / Warmer (2°C)	Pdh Pdh	4.70	kW kW	heating / Average (-10°C) heating / Warmer (2°C)	elbu elbu	-	kW kW
neating / Warrier (2 C)	Pdh		kW	heating / Colder (-22°C)	elbu		kW
icating / Colder (22 G)	T dii		IKVV	ricating / colder (22 c)	Cibu	l .	IKVV
Declared capacity for cooling, at inde	oor temperatu	re 27(19)°	C and	Declared energy efficiency ratio, a	at indoor tempera	ture 27(1	9)°C and
outdoor temperature Tj		- (- /		outdoor temperature Tj			-,
	Pdc	5.00	kW	Tj=35°C	EERd	3.80	-
rj=30°C	Pdc	3.70	kW	Tj=30°C	EERd	5.80	7-
rj=25°C	Pdc	3.60	kW	Tj=25°C	EERd	8.30	7-
j=20°C	Pdc	3.90	kW	Tj=20°C	EERd	7.50	1-
Declared capacity for heating / Avera		t indoor	_	Declared coefficient of performan		son, at in	door
emperature 20°C and outdoor tempers	,	4.00	الممر	temperature 20°C and outdoor ter		0.75	7
-j=-7°C	Pdh	4.00	kW	Tj=-7°C	COPd	2.75	-d ⁻
-j=2°C	Pdh	2.50	kW	Tj=2°C	COPd	3.60	4-
Γj=7°C	Pdh	2.00	kW	Tj=7°C	COPd	5.30	4-
Γj=12°C	Pdh	2.30	kW	Tj=12°C	COPd	6.30	_ -
ſj=bivalent temperature	Pdh	4.70	kW	Tj=bivalent temperature	COPd	2.55	_ -
j=operating limit	Pdh	4.70	kW	Tj=operating limit	COPd	2.45	-
Declared consoits for booting / Worn		4 indoor		Declared coefficient of newformer	00 / \\/ 0 = 000		400"
Declared capacity for heating / Warn emperature 20°C and outdoor temper		illuooi		Declared coefficient of performantemperature 20°C and outdoor ter		son, at me	1001
i=2°C	Pdh		kW	Ti=2°C	COPd		٦.
j=7°C	Pdh	_	kW	Tj=7°C	COPd		┦_
Γj=12°C	Pdh	-	kW	Ti=12°C	COPd		
Γj=12 C Γj=bivalent temperature	Pdh		kW		COPd		
ij=bivalent temperature ij=operating limit	Pdh	<u> </u>	kW	Tj=bivalent temperature Tj=operating limit	COPd	<u> </u>	-l ⁻
				, , ,			
Declared capacity for heating / Colde	er season, at i	ndoor		Declared coefficient of performan	ce / Colder seaso	on, at indo	or
emperature 20°C and outdoor temperature	erature Tj			temperature 20°C and outdoor ter	mperature Tj		
Гј=-7°С	Pdh	-	kW	Tj=-7°C	COPd	-	7-
Γj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	7-
Γj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	7-
Γi=12°C	Pdh	-	kW	Tj=12°C	COPd	-	1-
rj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	1-
j=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	┪_
Γj=-15°C	Pdh	-	kW	Tj=-15°C	COPd	-	1-
-				1 - 7			
Bivalent temperature			_	Operating limit temperature			_
eating / Average	Tbiv	-10	°C	heating / Average	Tol	-15	°C
neating / Warmer	Tbiv	-	°C	heating / Warmer	Tol	-	°C
eating / Colder	Tbiv		°C	heating / Colder	Tol	-	°C
Cycling interval senseit:				Cycling interval officiary			
Cycling interval capacity or cooling	Pcycc	-	kW	Cycling interval efficiency for cooling	EERcyc	-	٦.
or cooling or heating	Pcycc	H	kW	for heating	COPcyc	<u> </u>	HI.
	i Oyon		1,,,,	i.o. nodany	JOI Cyc	<u> </u>	1
Degradation coefficient				Degradation coefficient			
cooling	Cdc	0.25	<u>]</u>	heating	Cdh	0.25]
Electric power input in power modes				Annual electricity consumption	_		Traver /
	Poff	11	W	cooling	Qce	307	kWh/a
	Psb	11	W	heating / Average	Qhe	1714	kWh/a
standby mode	Pto	27	W	heating / Warmer	Qhe	-	kWh/a
standby mode hermostat-off mode	Pck	0	W	heating / colder	Qhe	-	kWh/a
tandby mode nermostat-off mode				Other items			
off mode standby mode hermostat-off mode crankcase heater mode	e ontione)			Sound power level(indoor)	Lwa	55	dB(A)
standby mode hermostat-off mode	e options)			Sound power level(indoor)		62	dB(A)
tandby mode hermostat-off mode rrankcase heater mode	e options)				l wa		
tandby mode hermostat-off mode trankcase heater mode Capacity control(indicate one of thre					Lwa GWP		
tandby mode hermostat-off mode trankcase heater mode Capacity control(indicate one of thre	No			Global warming potential	Lwa GWP	1975	kgCO2e
tandby mode hermostat-off mode trankcase heater mode Capacity control(indicate one of thre tixed taged	No No			Global warming potential Rated air flow(indoor)	GWP -	1975 750	kgČÓ2e m3/h
tandby mode nermostat-off mode rankcase heater mode Capacity control(indicate one of three	No			Global warming potential		1975	kgCO2e
tandby mode nermostat-off mode rrankcase heater mode Capacity control(indicate one of thre xed taged ariable	No No Yes	d address	of the man	Global warming potential Rated air flow(indoor) Rated air flow(outdoor)	GWP - -	1975 750	kgCO26 m3/h
tandby mode nermostat-off mode rankcase heater mode Capacity control(indicate one of thre xed taged ariable Contact details for obtaining	No No Yes			Global warming potential Rated air flow(indoor) Rated air flow(outdoor) nufacturer or of its authorised repres	GWP - -	1975 750	kgCO26 m3/h
tandby mode nermostat-off mode rankcase heater mode capacity control(indicate one of three and taged ariable contact details for obtaining nore information Mitsul	No No Yes Name an bishi Heavy In	ndustries A	ir-Conditio	Global warming potential Rated air flow(indoor) Rated air flow(outdoor) nufacturer or of its authorised representing Europe, Ltd.	GWP - -	1975 750	kgČÓ2e m3/h
tandby mode nermostat-off mode rankcase heater mode capacity control(indicate one of three exed taged ariable contact details for obtaining nore information Mitsul 7 Rou	No No Yes Name an bishi Heavy In	ndustries A	ir-Conditio	Global warming potential Rated air flow(indoor) Rated air flow(outdoor) nufacturer or of its authorised repres	GWP - -	1975 750	kgČÓ20 m3/h
tandby mode nermostat-off mode rankcase heater mode Capacity control(indicate one of three xed taged ariable Contact details for obtaining nore information Mitsul 7 Rou	No No Yes Name an bishi Heavy In	ndustries A	ir-Conditio	Global warming potential Rated air flow(indoor) Rated air flow(outdoor) nufacturer or of its authorised representing Europe, Ltd.	GWP - -	1975 750	kgČÓ20 m3/h

Information to identify the model(s) to will Indoor unit model name	hich the inf		lates to	If function includes heating: Indicate the			
Outdoor unit model name	SCM50ZS			information relates to. Indicated values heating season at a time. Include at least			'Average'
Function(indicate if present)				Average(mandatory)	Yes		
cooling	Yes			Warmer(if designated)	No		
heating	Yes			Colder(if designated)	No		
Item	symbol	value ι	unit	Item	symbol	value	class
Design load cooling	Pdesigno	5.00 k	κW	Seasonal efficiency and energy efficiency cooling	cy class SEER	6.73	A++
heating / Average	Pdesignh		κW	heating / Average	SCOP/A	4.02	A+
heating / Warmer	Pdesignh		¢W	heating / Warmer	SCOP/W	-	-
heating / Colder	Pdesignh	- k	ίW	heating / Colder	SCOP/C	-	unit
Declared capacity at outdoor temperatu	ıre Tdesignl	h		Back up heating capacity at outdoor ten	nperature T	designh	uriit
heating / Average (-10°C)	Pdh		¢W	heating / Average (-10°C)	elbu	Ö	kW
heating / Warmer (2°C)	Pdh		(W	heating / Warmer (2°C)	elbu	-	kW
heating / Colder (-22°C)	Pdh	- k	ίW	heating / Colder (-22°C)	elbu	-	kW
Declared capacity for cooling, at indoor	temperatur	e 27(19)°C	and	Declared energy efficiency ratio, at indo	or tempera	ture 27(19)°C and
outdoor temperature Tj				outdoor temperature Tj			
Tj=35°C Tj=30°C	Pdc Pdc		¢W ¢W	Tj=35°C Tj=30°C	EERd EERd	4.80 7.10	-
Tj=25°C	Pdc		ćW	Tj=30 C	EERd	9.90	_
Tj=20°C	Pdc		¢W	Tj=20°C	EERd	9.10	-
	1						
Declared capacity for heating / Average temperature 20°C and outdoor tempera		indoor		Declared coefficient of performance / Avtemperature 20°C and outdoor temperature		son, at ind	oor
Tj=-7°C	Pdh	4.00 k	κW	Tj=-7°C	COPd	2.80	-
Tj=2°C	Pdh		¢W	Tj=2°C	COPd	3.90	-
Tj=7°C	Pdh		¢W	Tj=7°C	COPd	5.30	-
Tj=12°C	Pdh		(W	Tj=12°C	COPd	6.60	-
Tj=bivalent temperature Tj=operating limit	Pdh Pdh		¢W ¢W	Tj=bivalent temperature Tj=operating limit	COPd COPd	2.55 2.45	_
Tj-operating innit	i uii	4.70	(VV	rj-operating iimit	COLU	2.45	-
Declared capacity for heating / Warmer		indoor		Declared coefficient of performance / W		son, at ind	oor
temperature 20°C and outdoor tempera Ti=2°C	ture Tj Pdh I	- lk	κW	temperature 20°C and outdoor temperat Tj=2°C	ure Tj COPd	_	
Tj=7°C	Pdh		άW	Ti=7°C	COPd	-	_
Tj=12°C	Pdh		άW	Tj=12°C	COPd	-	-
Tj=bivalent temperature	Pdh		κW	Tj=bivalent temperature	COPd	-	-
Tj=operating limit	Pdh	- k	ίW	Tj=operating limit	COPd	-	-
Declared capacity for heating / Colder s	season at in	ndoor		Declared coefficient of performance / Co	older seaso	n at indo	or
temperature 20°C and outdoor tempera		14001		temperature 20°C and outdoor temperat		ni, at inao	51
Tj=-7°C	Pdh		κW	Tj=-7°C	COPd	-	-
Tj=2°C	Pdh		(W	Tj=2°C	COPd	-	-
Tj=7°C Ti=12°C	Pdh Pdh		¢W ¢W	Tj=7°C Tj=12°C	COPd COPd	-	-
Tj=bivalent temperature	Pdh		άW	Tj=12 G Tj=bivalent temperature	COPd		_
Tj=operating limit	Pdh		κW	Tj=operating limit	COPd	-	-
Tj=-15°C	Pdh	- k	κW	Tj=-15°C	COPd	-	-
Bivalent temperature				Operating limit temperature			
heating / Average	Tbiv	-10 °	c	heating / Average	Tol	-15	°C
heating / Warmer	Tbiv		C	heating / Warmer	Tol	-	°C
heating / Colder	Tbiv	- 0	C	heating / Colder	Tol		°C
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pcycc	- k	κW	for cooling	EERcyc	-	-
for heating	Pcych	- k	κW	for heating	COPcyc	-	-
Dogradation coefficient			1	Degradation coefficient			
Degradation coefficient cooling	Cdc	0.25 -		Degradation coefficient heating	Cdh	0.25	-
3			·	3			
Electric power input in power modes of			Λ/	Annual electricity consumption	00-	004	LAA/le /=
off mode standby mode	Poff Psb		N N	cooling heating / Average	Qce Qhe	261 1637	kWh/a kWh/a
thermostat-off mode	Pto		N	heating / Warmer	Qhe	-	kWh/a
crankcase heater mode	Pck		N	heating / colder	Qhe	-	kWh/a
Consider some W. H.	-4: \			Others to gran			
Capacity control(indicate one of three of	ptions)			Other items Sound power level(indoor)	Lwa	53	dB(A)
				Sound power level(indoor)	Lwa	62	dB(A)
fixed	No			Global warming potential	GWP	1975	kgCO2eq.
staged	No			Rated air flow(indoor)	-	690	m3/h
variable	Yes			Rated air flow(outdoor)	-	2460	m3/h
Contact details for obtaining	Name and	d address of	f the man	ufacturer or of its authorised representative	ve		
more information Mitsubisl	hi Heavy Ind	dustries Air-	-Condition	ning Europe, Ltd.			
		ue, Stockley	y Park, U	xbridge, Middlesex, UB11 1AX			
United K	iiiguUIII						
'						RWC00	0Z291 <u>A</u>

Indoor unit model name	which the inf		relates to	If function includes heating: Indicate information relates to. Indicated val			
Outdoor unit model name	SCM50ZS			heating season at a time. Include a			n 'Average
Function(indicate if present)				Average(mandatory)	Yes		
cooling	Yes			Warmer(if designated)	No		
neating	Yes			Colder(if designated)	No		
tem	symbol	value	unit	Item	symbol	value	class
Design load	Symbol	value	unit	Seasonal efficiency and energy effi		value	Oldoo
cooling	Pdesigno	5.00	kW	cooling	SEER	5.60	A+
neating / Average	Pdesignh		kW	heating / Average	SCOP/A	3.94	Α
neating / Warmer	Pdesignh		kW	heating / Warmer	SCOP/W	-	-
neating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C	-	unit
Declared capacity at outdoor temperat	ure Tdesian	h		Back up heating capacity at outdoo	or temperature	designh	uriit
neating / Average (-10°C)	Pdh	4.75	kW	heating / Average (-10°C)	elbu	0	kW
neating / Warmer (2°C)	Pdh	-	kW	heating / Warmer (2°C)	elbu	-	kW
neating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	-	kW
Dealared conseits for seeling at indee	* 40 *** 0 ****	07/40\ ⁰	O and	Declared anarmy officiancy ratio at	in door to monor	Mura 07/4	0\°C and
Declared capacity for cooling, at indoo outdoor temperature Tj	rtemperatu	ie 27(19)	C and	Declared energy efficiency ratio, at outdoor temperature Tj	indoor tempera	iture 27 (i	9) C and
rj=35°C	Pdc	5.00	kW	Tj=35°C	EERd	3.45	7-
Γj=30°C	Pdc	3.70	kW	Tj=30°C	EERd	5.15	7-
Гj=25°С	Pdc	3.20	kW	Tj=25°C	EERd	8.10]-
Гj=20°С	Pdc	3.65	kW	Tj=20°C	EERd	7.60	-
Dodorod conscitutor be the - / A:	0.00000	t indes:		Declared enafficient of a set-	2 / Augras	00n ct:	door
Declared capacity for heating / Averagemperature 20°C and outdoor temperature		ındoor		Declared coefficient of performance temperature 20°C and outdoor 20°C and outdoor 20°C and 00°C and 00		son, at in	uoor
emperature 20 C and outdoor tempera Fj=-7°C	Pdh	4.40	kW	Ti=-7°C	COPd	2.60	٦-
rj= / C rj=2°C	Pdh	2.60	kW	Tj=2°C	COPd	4.15	-
Γj=7°C	Pdh	2.20	kW	Tj=7°C	COPd	4.95	7-
rj=12°C	Pdh	3.70	kW	Tj=12°C	COPd	5.60]-
Tj=bivalent temperature	Pdh	4.75	kW	Tj=bivalent temperature	COPd	2.15	<u> </u>
Гj=operating limit	Pdh	4.30	kW	Tj=operating limit	COPd	2.00	-
Declared capacity for heating / Warme	r coacon at	indoor		Declared coefficient of performance	2 / Marmor coa	con at inc	door
emperature 20°C and outdoor tempera		illuooi		temperature 20°C and outdoor temp		son, at mic	1001
Γj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	7-
rj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	-
Гj=12°С	Pdh	-	kW	Tj=12°C	COPd	-]-
Γj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-]-
Γj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-
Declared capacity for heating / Colder	season at i	ndoor		Declared coefficient of performance	a / Colder seaso	n at indo	oor
temperature 20°C and outdoor temperature		iladdi		temperature 20°C and outdoor temp		ni, at inac	001
Γj=-7°C	Pdh	-	kW	Tj=-7°C	COPd	-	7-
Γj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	Ī-
Γj=7°C	Pdh	-	kW	Tj=7°C	COPd	-]-
Γj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	
Γj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	<u> </u>
Γj=operating limit	Pdh Pdh	-	kW kW	Tj=operating limit	COPd COPd	-	<u>-</u>
Гj=-15°С	ruii	_	KVV	Tj=-15°C	COPu	_	ļ-
Bivalent temperature				Operating limit temperature			
neating / Average	Tbiv	-10	°C	heating / Average	Tol	-15	°C
neating / Warmer	Tbiv	-	°C	heating / Warmer	Tol	-	°C
neating / Colder	Tbiv	-	°C	heating / Colder	Tol	-	°C
Cycling interval consoity				Cycling intorval officiens:			
Cycling interval capacity or cooling	Pcycc	-	kW	Cycling interval efficiency for cooling	EERcyc	-	٦-
or heating	Pcych	-	kW	for heating	COPcyc	-	┧_
	. 5,011	1	1,] [- · ·	22, 0,0	1	1
Degradation coefficient	_		_	Degradation coefficient			
cooling	Cdc	0.25	-	heating	Cdh	0.25	-
Electric power input in power modes of	ther than 'ac	tive mod	2	Annual electricity consumption			
off mode	Poff	10	Īw	cooling	Qce	313	kWh/a
standby mode	Psb	10	W	heating / Average	Qhe	1688	kWh/a
hermostat-off mode	Pto	14	W	heating / Warmer	Qhe	-	kWh/a
crankcase heater mode	Pck	0	W	heating / colder	Qhe	-	kWh/a
			-	l lau			
Capacity control(indicate one of three	options)			Other items	1]4D/^\
				Sound power level(indoor) Sound power level(outdoor)	Lwa	52 62	dB(A) dB(A)
	No			Global warming potential	Lwa GWP	1975	kgCO2e
ivad	No			Rated air flow(indoor)	GWP -	594	m3/h
				Rated air flow(indoor)	-	2460	m3/h
ixed staged variable	Yes					00	
	Yes						
staged	·	d address	of the mar	nufacturer or of its authorised represe	ntative		
taged ariable Contact details for obtaining more information Mitsubis	Name and shi Heavy In	dustries A	Air-Conditio	ning Europe, Ltd.	ntative		
taged ariable Contact details for obtaining nore information Mitsubis 7 Round	Name and shi Heavy In dwood Aven	dustries A	Air-Conditio		ntative		
ariable ontact details for obtaining Mitsubis 7 Round	Name and shi Heavy In	dustries A	Air-Conditio	ning Europe, Ltd.	ntative		

Information to identify the model(s) to which the information relates to				If function includes heating: Indicate the heating season the				
Indoor unit model name Outdoor unit model name SRK20ZS-S x 3 SCM50ZS-S				information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'				
Outdoor drift frioder flame	301013023	-3	healing season at a time. Include at least the healing season. Average					
Function(indicate if present)				Average(mandatory)	Yes			
cooling	Yes			Warmer(if designated)	No			
heating	Yes			Colder(if designated)	No			
							.	
Item Design load	symbol	value	unit	Item symbol value class Seasonal efficiency and energy efficiency class				
cooling	Pdesigno	5.00	kW	cooling	SEER	6.57	A++	
heating / Average	Pdesignh	4.75	kW	heating / Average	SCOP/A	3.95	A	
heating / Warmer	Pdesignh	-	kW	heating / Warmer	SCOP/W	-	-	
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C	-	-	
							unit	
Declared capacity at outdoor temperatineating / Average (-10°C)	ire I designi Pdh	1 4.75	kW	Back up heating capacity at outdoor ten heating / Average (-10°C)	nperature I elbu	designh	kW	
heating / Warmer (2°C)	Pdh	4.75	kW	heating / Average (-10 C)	elbu	-	kW	
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	-	kW	
Declared capacity for cooling, at indoor	temperatur	e 27(19)°	C and	Declared energy efficiency ratio, at indoor temperature 27(19)°C and				
outdoor temperature Tj	r		1	outdoor temperature Tj			.	
Tj=35°C	Pdc	5.00	kW	Tj=35°C	EERd	4.40	-	
Tj=30°C Tj=25°C	Pdc Pdc	3.70	kW kW	Tj=30°C	EERd	6.90 9.40	-	
Tj=20°C	Pdc	3.20 3.65	kW	Tj=25°C Tj=20°C	EERd EERd	8.60		
1]=20 C	Fuc	3.03	NVV	TJ=20 C	LLNu	0.00	-	
Declared capacity for heating / Average	e season, at	indoor		Declared coefficient of performance / Av	erage sea	son, at ind	oor	
temperature 20°C and outdoor tempera				temperature 20°C and outdoor temperature Tj				
Tj=-7°C	Pdh	4.40	kW	Tj=-7°C	COPd	2.60	-	
Tj=2°C	Pdh	2.60	kW	Tj=2°C	COPd	4.20	-	
Tj=7°C	Pdh	2.20	kW	Tj=7°C	COPd	4.90	-	
Tj=12°C	Pdh	3.70	kW kW	Tj=12°C	COPd	5.55	-	
Tj=bivalent temperature Tj=operating limit	Pdh Pdh	4.75 4.30	kW	Tj=bivalent temperature Tj=operating limit	COPd COPd	2.15	-	
rj=operating iiriit	Full	4.30	NVV	rj=operating iiiriit	COFU	2.00	-	
Declared capacity for heating / Warmer	season, at	indoor		Declared coefficient of performance / W	armer seas	son, at ind	oor	
temperature 20°C and outdoor tempera			_	temperature 20°C and outdoor temperat				
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 COPd	-	-	
Tj=operating limit	Pdh		kW	Tj=operating limit	COPa	-	-	
Declared capacity for heating / Colders	season, at ir	ndoor		Declared coefficient of performance / Co	older seaso	n. at indo	or	
temperature 20°C and outdoor tempera				temperature 20°C and outdoor temperat		,		
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 kW	Tj=12°C	COPd COPd	-	-	
Tj=bivalent temperature Ti=operating limit	Pdh Pdh		kW	Tj=bivalent temperature Tj=operating limit	COPd			
Tj=-15°C	Pdh	<u> </u>	kW	Ti=-15°C	COPd	-		
1,1 10 0	1 011		i.vv	1,1 10 0	001 0			
Bivalent temperature			_	Operating limit temperature				
heating / Average	Tbiv	-10	°C	heating / Average	Tol	-15	°C	
heating / Warmer	Tbiv	-	°C	heating / Warmer	Tol	-	°C	
heating / Colder	Tbiv	-	°C	heating / Colder	Tol	-	°C	
Cycling interval capacity				Cycling interval efficiency				
for cooling	Pcycc	-	kW	for cooling	EERcyc	-	l-	
for heating	Pcych	-	kW	for heating	COPcyc	-	-	
Degradation coefficient	0.1	0.05	,	Degradation coefficient	0 "	0.05		
cooling	Cdc	0.25	-	heating	Cdh	0.25	-	
Electric power input in power modes of	her than 'ac	tive mode		Annual electricity consumption				
off mode	Poff	11	w	cooling	Qce	267	kWh/a	
standby mode	Psb	11	W	heating / Average	Qhe	1685	kWh/a	
thermostat-off mode	Pto	22	W	heating / Warmer	Qhe	-	kWh/a	
crankcase heater mode	Pck	0	W	heating / colder	Qhe	-	kWh/a	
Canadity control(indicate and of three	ntiona)			Otheriteme				
Capacity control(indicate one of three of	ιμιιστις)			Other items Sound power level(indoor)	Lwa	50	dB(A)	
				Sound power level(indoor)	Lwa	62	dB(A)	
fixed	No			Global warming potential	GWP	1975	kgCO2eq.	
staged	No			Rated air flow(indoor)	-	558	m3/h	
variable	Yes			Rated air flow(outdoor)	-	2460	m3/h	
Control detail ()	N-		- (4)					
Contact details for obtaining Mitsubis				ufacturer or of its authorised representative ning Europe, Ltd.	/e			
				xbridge, Middlesex, UB11 1AX				
United K		.,	,, 0	G-, ,				
	-							
						RWC00	0Z291 <u></u> ▲	

Information to identify the model(s) to which the information relates to Indoor unit model name SKM20ZSP-S x 3			If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one					
Outdoor unit model name SCM50ZS-S				heating season at a time. Include at least the heating season 'Average'				
Function(indicate if present)				Average(mandatory)	Yes			
cooling	Yes			Warmer(if designated)		No		
heating	Yes			Colder(if designated)	No			
Item	symbol	value	unit	Item	symbol	value	class	
Design load	D	F 00	1	Seasonal efficiency and energy efficience		5.04		
cooling heating / Average	Pdesignc Pdesignh		kW kW	cooling heating / Average	SEER SCOP/A	5.94 3.93	A+ A	
heating / Warmer	Pdesignh		kW	heating / Warmer	SCOP/W	-	-	
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C	-	-	
Declared capacity at outdoor temperatu	ro Tdooign	h		Back up heating capacity at outdoor tem	noroturo T	doolanh	unit	
heating / Average (-10°C)	Pdh	4.75	kW	heating / Average (-10°C)	elbu	0	kW	
heating / Warmer (2°C)	Pdh	-	kW	heating / Warmer (2°C)	elbu	-	kW	
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	-	kW	
Declared capacity for cooling, at indoor	temperatu	re 27(19)°	C and	Declared energy efficiency ratio, at indo	or tempers	ture 27/10	3)°C and	
outdoor temperature Tj	temperatui	16 27 (13)	o and	outdoor temperature Tj	or tempera	itule 27 (13) C and	
Tj=35°C	Pdc	5.00	kW	Tj=35°C	EERd	4.20]-	
Tj=30°C	Pdc	3.70	kW	Tj=30°C	EERd	6.00	-	
Tj=25°C Tj=20°C	Pdc Pdc	3.20	kW kW	Tj=25°C Tj=20°C	EERd EERd	8.00 7.90	-	
1,1 20 0	. 40	0.00		., 20 0		1.00	l I	
Declared capacity for heating / Average		t indoor		Declared coefficient of performance / Av		son, at ind	loor	
temperature 20°C and outdoor tempera Ti=-7°C	ture Tj Pdh	4.40	kW	temperature 20°C and outdoor temperat	ure Tj COPd	2.60	₁₋	
Tj=-7 C	Pdh	2.60	kW	Ti=2°C	COPd	4.15	-	
Tj=7°C	Pdh	2.20	kW	Tj=7°C	COPd	4.90	-	
Tj=12°C	Pdh	3.70	kW	Tj=12°C	COPd	5.60]-	
Tj=bivalent temperature	Pdh	4.75	kW	Tj=bivalent temperature	COPd	2.15	-	
Tj=operating limit	Pdh	4.30	kW	Tj=operating limit	COPd	2.00	-	
Declared capacity for heating / Warmer	season, at	indoor		Declared coefficient of performance / W	armer seas	son, at ind	oor	
temperature 20°C and outdoor tempera			11.347	temperature 20°C and outdoor temperat			,	
Tj=2°C Tj=7°C	Pdh Pdh	-	kW kW	Tj=2°C Tj=7°C	COPd COPd	-	-	
Tj=12°C	Pdh		kW	Ti=12°C	COPd	-	<u> </u>	
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	-	
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-	
Declared capacity for heating / Colders	eason at i	ndoor		Declared coefficient of performance / Co	older seaso	n at indo	or	
temperature 20°C and outdoor tempera		iluooi		temperature 20°C and outdoor temperat		on, at muo	OI	
Tj=-7°C	Pdh	-	kW	Tj=-7°C	COPd	-]-	
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	-	
Tj=7°C Ti=12°C	Pdh Pdh	-	kW kW	Tj=7°C Tj=12°C	COPd COPd	-	-	
Tj=bivalent temperature	Pdh	-	kW	Tj=12 G Tj=bivalent temperature	COPd	-	<u> </u>	
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-	
Tj=-15°C	Pdh	-	kW	Tj=-15℃	COPd	-	-	
Bivalent temperature				Operating limit temperature				
heating / Average	Tbiv	-10	°C	heating / Average	Tol	-15	°c	
heating / Warmer	Tbiv	-	°C	heating / Warmer	Tol	-	°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	1-	heating	Cdh	0.25	1-	
						l.		
Electric power input in power modes of				Annual electricity consumption	000	205	k\\/b/a	
off mode standby mode	Poff Psb	10 10	W	cooling heating / Average	Qce Qhe	295 1692	kWh/a kWh/a	
thermostat-off mode	Pto	16	W	heating / Warmer	Qhe	-	kWh/a	
crankcase heater mode	Pck	0	W	heating / colder	Qhe	-	kWh/a	
Capacity control/indicate and of the	ntions)			Other items				
Capacity control(indicate one of three c	ptions)			Sound power level(indoor)	Lwa	58	dB(A)	
				Sound power level(outdoor)	Lwa	62	dB(A)	
fixed	No			Global warming potential	GWP	1975	kgCO2eq.	
staged	No			Rated air flow(indoor)	-	510	m3/h	
variable	Yes			Rated air flow(outdoor)	-	2460	m3/h	
Contact details for obtaining	Name and	d address	of the man	ufacturer or of its authorised representative	/e			
more information Mitsubis	hi Heavy In	dustries A	ir-Conditio	ning Europe, Ltd.				
	7 Roundwood Avenue, Stockley Park, Uxbridge, Middlesex, UB11 1AX United Kingdom							
Offited N	guuii							
						RWC00	00Z291 <u>A</u>	

Information to identify the model(s) to which the information relates to Indoor unit model name Outdoor unit model name SCM50ZS-S SCM50ZS-S			If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one					
Outdoor unit model name		heating season at a time. Include at least the heating season 'Average'						
Function(indicate if present)				Average(mandatory)	Yes			
cooling	Yes			Warmer(if designated)		No		
heating	Yes			Colder(if designated)	No			
Item	symbol	value	unit	Item	symbol	value	class	
Design load	Б	F 00	7	Seasonal efficiency and energy efficience		F 44		
cooling heating / Average	Pdesignc Pdesignh		kW kW	cooling heating / Average	SEER SCOP/A	5.11 3.92	A A	
heating / Warmer	Pdesignh		kW	heating / Warmer	SCOP/W	-	-	
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C	-	-	
Declared capacity at outdoor temperate	ıra Tdaaiga	h		Back up heating capacity at outdoor tem	noroturo T	doolanh	unit	
heating / Average (-10°C)	Pdh	4.75	kW	heating / Average (-10°C)	elbu	0	kW	
heating / Warmer (2°C)	Pdh	-	kW	heating / Warmer (2°C)	elbu	-	kW	
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	-	kW	
Declared capacity for cooling, at indoor	temperatu	re 27(19)°	C and	Declared energy efficiency ratio, at indo	or tempers	ture 27/10))°C and	
outdoor temperature Tj	temperatu	16 27 (13)	O and	outdoor temperature Tj	or tempera	iture 27 (13) C and	
Tj=35°C	Pdc	5.00	kW	Tj=35°C	EERd	3.25	-	
Tj=30°C	Pdc	3.70	kW	Tj=30°C	EERd	4.85	-	
Tj=25°C Tj=20°C	Pdc Pdc	3.20	kW kW	Tj=25°C Tj=20°C	EERd EERd	7.05 6.70	_	
,								
Declared capacity for heating / Average		t indoor		Declared coefficient of performance / Av		son, at ind	oor	
temperature 20°C and outdoor tempera Ti=-7°C	ture Tj Pdh	4.40	kW	temperature 20°C and outdoor temperat	ure Tj COPd	2.60	_{I-}	
Tj=-7 C	Pdh	2.60	kW		COPd	4.10	-	
Tj=7°C	Pdh	2.20	kW	Tj=7°C	COPd	4.95	-	
Tj=12°C	Pdh	3.70	kW	Tj=12°C	COPd	5.60	-	
Tj=bivalent temperature	Pdh	4.75	kW	Tj=bivalent temperature	COPd	2.15	-	
Tj=operating limit	Pdh	4.30	kW	Tj=operating limit	COPd	2.00	-	
Declared capacity for heating / Warmer	season, at	indoor		Declared coefficient of performance / W	armer seas	son, at ind	oor	
temperature 20°C and outdoor tempera			71347	temperature 20°C and outdoor temperat				
Tj=2°C Tj=7°C	Pdh Pdh	-	kW kW	Tj=2°C Tj=7°C	COPd COPd	-	-	
Tj=12°C	Pdh		kW	Tj=7 C Tj=12°C	COPd	-	-	
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	-	
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-	
Declared capacity for heating / Colders	eason ati	ndoor		Declared coefficient of performance / Co	older seaso	n at indo	or	
temperature 20°C and outdoor tempera		iluooi		temperature 20°C and outdoor temperat		ni, at inuo	JI	
Tj=-7°C	Pdh	-	kW	Tj=-7°C	COPd		-	
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	-	
Tj=7°C Ti=12°C	Pdh Pdh	-	kW kW	Tj=7°C Tj=12°C	COPd COPd	-	-	
Tj=bivalent temperature	Pdh	-	kW	Tj=12 0 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	-10	°c	heating / Average	Tol	-15	°C	
heating / Warmer	Tbiv	-	°C	heating / Warmer	Tol	-	°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	7-	heating	Cdh	0.25	l-	
Electric power input in power modes of				Annual electricity consumption	000	242	k\\/b/a	
off mode standby mode	Poff Psb	9	W	cooling heating / Average	Qce Qhe	343 1698	kWh/a kWh/a	
thermostat-off mode	Pto	13	w	heating / Warmer	Qhe	-	kWh/a	
crankcase heater mode	Pck	0	W	heating / colder	Qhe	-	kWh/a	
Congoity control/indicate	ntions\			Other items				
Capacity control(indicate one of three of	ptions)			Other items Sound power level(indoor)	Lwa	59	dB(A)	
				Sound power level(outdoor)	Lwa	62	dB(A)	
fixed	No		_	Global warming potential	GWP	1975	kgCO2eq.	
staged	No			Rated air flow(indoor)	-	510	m3/h	
variable	Yes			Rated air flow(outdoor)	-	2460	m3/h	
Contact details for obtaining	Name and	d address	of the man	ufacturer or of its authorised representative	/e			
more information Mitsubishi Heavy Industries Air-Conditioning Europe, Ltd.								
7 Round United K		ue, Stockl	ey Park, U	xbridge, Middlesex, UB11 1AX				
Officed P	gaoiii							
-						RWC00	0Z291 <u>A</u>	

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16-5 Konan 2-chome, Minato-ku, Tokyo, 108-8215, Japan http://www.mhi-mth.co.jp/en/