

Service Manual



R22 Heat Pump / Cooling Only









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VRVII R22 Heat Pump / Cooling Only

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1. Introduction

Safety Cautions 1.1

Cautions and Warnings

- Be sure to read the following safety cautions before conducting repair work.
- The caution items are classified into " \(\frac{1}{2} \) Warning" and " \(\frac{1}{2} \) Caution". The " \(\frac{1}{2} \) Warning" items are especially important since they can lead to death or serious injury if they are not followed closely. The "/ Caution" items can also lead to serious accidents under some conditions if they are not followed. Therefore, be sure to observe all the safety caution items described below.
- About the pictograms
- ↑ This symbol indicates an item for which caution must be exercised. The pictogram shows the item to which attention must be paid.
- The prohibited item or action is shown inside or near the symbol.

This symbol indicates a prohibited action.

- This symbol indicates an action that must be taken, or an instruction. The instruction is shown inside or near the symbol.
- After the repair work is complete, be sure to conduct a test operation to ensure that the equipment operates normally, and explain the cautions for operating the product to the customer

1.1.1 Caution in Repair

• Warning	
Be sure to disconnect the power cable plug from the plug socket before disassembling the equipment for a repair. Working on the equipment that is connected to a power supply can cause an electrical shook. If it is necessary to supply power to the equipment to conduct the repair or inspecting the circuits, do not touch any electrically charged sections of the equipment.	8-5
If the refrigerant gas discharges during the repair work, do not touch the discharging refrigerant gas. The refrigerant gas can cause frostbite.	\bigcirc
When disconnecting the suction or discharge pipe of the compressor at the welded section, release the refrigerant gas completely at a well-ventilated place first. If there is a gas remaining inside the compressor, the refrigerant gas or refrigerating machine oil discharges when the pipe is disconnected, and it can cause injury.	
If the refrigerant gas leaks during the repair work, ventilate the area. The refrigerant gas can generate toxic gases when it contacts flames.	0
The step-up capacitor supplies high-voltage electricity to the electrical components of the outdoor unit. Be sure to discharge the capacitor completely before conducting repair work. A charged capacitor can cause an electrical shock.	A
Do not start or stop the air conditioner operation by plugging or unplugging the power cable plug. Plugging or unplugging the power cable plug to operate the equipment can cause an electrical shock or fire.	\bigcirc

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Caution	
Do not repair the electrical components with wet hands. Working on the equipment with wet hands can cause an electrical shock.	
Do not clean the air conditioner by splashing water. Washing the unit with water can cause an electrical shock.	
Be sure to provide the grounding when repairing the equipment in a humid or wet place, to avoid electrical shocks.	•
Be sure to turn off the power switch and unplug the power cable when cleaning the equipment. The internal fan rotates at a high speed, and cause injury.	B . C
Do not tilt the unit when removing it. The water inside the unit can spill and wet the furniture and floor.	\Diamond
Be sure to check that the refrigerating cycle section has cooled down sufficiently before conducting repair work. Working on the unit when the refrigerating cycle section is hot can cause burns.	
Use the welder in a well-ventilated place. Using the welder in an enclosed room can cause oxygen deficiency.	0

1.1.2 Cautions Regarding Products after Repair

<u>∳</u> Warning	
Be sure to use parts listed in the service parts list of the applicable model and appropriate tools to conduct repair work. Never attempt to modify the equipment. The use of inappropriate parts or tools can cause an electrical shock, excessive heat generation or fire.	
When relocating the equipment, make sure that the new installation site has sufficient strength to withstand the weight of the equipment. If the installation site does not have sufficient strength and if the installation work is not conducted securely, the equipment can fall and cause injury.	
Be sure to install the product correctly by using the provided standard installation frame. Incorrect use of the installation frame and improper installation can cause the equipment to fall, resulting in injury.	For integral units only
Be sure to install the product securely in the installation frame mounted on a window frame. If the unit is not securely mounted, it can fall and cause injury.	For integral units only
Be sure to use an exclusive power circuit for the equipment, and follow the technical standards related to the electrical equipment, the internal wiring regulations and the instruction manual for installation when conducting electrical work. Insufficient power circuit capacity and improper electrical work can cause an electrical shock or fire.	

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• Warning	
Be sure to use the specified cable to connect between the indoor and outdoor units. Make the connections securely and route the cable properly so that there is no force pulling the cable at the connection terminals. Improper connections can cause excessive heat generation or fire.	
When connecting the cable between the indoor and outdoor units, make sure that the terminal cover does not lift off or dismount because of the cable. If the cover is not mounted properly, the terminal connection section can cause an electrical shock, excessive heat generation or fire.	
Do not damage or modify the power cable. Damaged or modified power cable can cause an electrical shock or fire. Placing heavy items on the power cable, and heating or pulling the power cable can damage the cable.	
Do not mix air or gas other than the specified refrigerant in the refrigerant system. If air enters the refrigerating system, an excessively high pressure results, causing equipment damage and injury.	
If the refrigerant gas leaks, be sure to locate the leak and repair it before charging the refrigerant. After charging refrigerant, make sure that there is no refrigerant leak. If the leak cannot be located and the repair work must be stopped, be sure to perform pump-down and close the service valve, to prevent the refrigerant gas from leaking into the room. The refrigerant gas itself is harmless, but it can generate toxic gases when it contacts flames, such as fan and other heaters, stoves and ranges.	0
When replacing the coin battery in the remote controller, be sure to disposed of the old battery to prevent children from swallowing it. If a child swallows the coin battery, see a doctor immediately.	

• Caution	
Installation of a leakage breaker is necessary in some cases depending on the conditions of the installation site, to prevent electrical shocks.	
Do not install the equipment in a place where there is a possibility of combustible gas leaks. If a combustible gas leaks and remains around the unit, it can cause a fire.	\bigcirc
Be sure to install the packing and seal on the installation frame properly. If the packing and seal are not installed properly, water can enter the room and wet the furniture and floor.	For integral units only

1.1.3 Inspection after Repair

• Warning	
Check to make sure that the power cable plug is not dirty or loose, then insert the plug into a power outlet all the way. If the plug has dust or loose connection, it can cause an electrical shock or fire.	0
If the power cable and lead wires have scratches or deteriorated, be sure to replace them. Damaged cable and wires can cause an electrical shock, excessive heat generation or fire.	0
Do not use a joined power cable or extension cable, or share the same power outlet with other electrical appliances, since it can cause an electrical shock, excessive heat generation or fire.	

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<u> </u>	
Check to see if the parts and wires are mounted and connected properly, and if the connections at the soldered or crimped terminals are secure. Improper installation and connections can cause excessive heat generation, fire or an electrical shock.	
If the installation platform or frame has corroded, replace it. Corroded installation platform or frame can cause the unit to fall, resulting in injury.	
Check the grounding, and repair it if the equipment is not properly grounded. Improper grounding can cause an electrical shock.	
Be sure to measure the insulation resistance after the repair, and make sure that the resistance is 1 Mohm or higher. Faulty insulation can cause an electrical shock.	
Be sure to check the drainage of the indoor unit after the repair. Faulty drainage can cause the water to enter the room and wet the furniture and floor.	

1.1.4 Using Icons

Icons are used to attract the attention of the reader to specific information. The meaning of each icon is described in the table below:

1.1.5 Using Icons List

Icon	Type of Information	Description
Note:	Note	A "note" provides information that is not indispensable, but may nevertheless be valuable to the reader, such as tips and tricks.
Caution	Caution	A "caution" is used when there is danger that the reader, through incorrect manipulation, may damage equipment, loose data, get an unexpected result or has to restart (part of) a procedure.
Warning	Warning	A "warning" is used when there is danger of personal injury.
	Reference	A "reference" guides the reader to other places in this binder or in this manual, where he/she will find additional information on a specific topic.

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1.2 PREFACE

Thank you for your continued patronage of Daikin products.

This is the new service manual for Daikin's Year 2003 VRVII series Heat Pump / Cooling Only System.

Daikin offers a wide range of models to respond to building and office air conditioning needs. We are confident that customers will be able to find the models that best suit their needs.

This service manual contains information regarding the servicing of VRVII series Heat Pump / Cooling Only System.

July. 2003

After Sales Service Division

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1. Model Names of Indoor/Outdoor Units

Indoor Units

Туре						M	odel Na	me					Power Supply
Ceiling Mounted Cassette Type (Double Flow)	FXC	20L	25L	32L	40L	50L	63L	80L	_	125L	_	_	
Ceiling Mounted Cassette Type (Multi Flow)	FXF	_	25L	32L	40L	50L	63L	80L	100L	125L	_	_	
Ceiling Mounted Cassette Corner Type	FXK	_	25L	32L	40L	_	63L		_	_	_	_	VE
Ceiling Mounted Low Silhouette Duct Type	FXYD	20KA	25KA	32KA	40KA	50KA	63KA	_	_	_	_	_	
Ceiling Mounted Built-In Type	FXS	20L	25L	32L	40L	50L	63L	80L	100L	125L	_	_	
Ceiling Mounted Built-In (Rear Suction) Type	FXYB	20K	25K	32K	40K	50K	63K	80K	100K	125K	_	_	V1
Ceiling Mounted Duct Type	FXM	_	_	_	40L	50L	63L	80L	100L	125L	200L	250L	
Ceiling Suspended Type	FXH	_	_	32L	_	_	63L		100L	_	_	_	
Wall Mounted Type	FXA	20L	25L	32L	40L	50L	63L	_	_	_	_	_	VE
Floor Standing Type	FXL	20L	25L	32L	40L	50L	63L	_	_	_	_	_	
Concealed Floor Standing Type	FXN	20L	25L	32L	40L	50L	63L	ı	_	_	_	_	

VE: 1φ, 220V~240V, 50Hz

1φ, 220V, 60Hz

V1: 1φ, 220V~240V, 50Hz

Outdoor Units (Inverter Series)

Series									Power Supply			
Heat Pump	RXY	RXY 5M 8M 10M 12M 14M 16M 18M 20M 22M 24M 26M									Y1 (E) TL (E) YL (E)	
Cooling Only	RX	RX 5M 8M 10M 12M 14M 16M 18M 20M 22M 24M 26M '										Y1 (E)

Series								Power Supply					
Heat Pump	RXY	28M	30M	32M	34M	36M	38M	40M	42M	44M	46M	48M	Y1 (E) TL (E) YL (E)
Cooling Only	RX	28M	30M	32M	34M	36M	38M	40M	42M	44M	46M	48M	Y1 (E)

Y1: 3φ, 380~415V, 50Hz TL: 3φ, 220V, 60Hz

YL: 3φ, 380V, 60Hz

E: The unit with anti corrosion treatment

Si38-304 External Appearance

2. External Appearance

2.1 Indoor Units



External Appearance Si38-304

2.2 Outdoor Units



3. Combination of Outdoor Units

System	Number of	Module						
Capacity	units	5	8	10	12	14	16	
5HP	1	•						
8HP	1		•					
10HP	1			•				
12HP	1				•			
14HP	1					•		
16HP	1						•	
18HP	2		•	•				
20HP	2			••				
22HP	2			•	•			
24HP	2			•		•		
26HP	2			•			•	
28HP	2				•		•	
30HP	2					•	•	
32HP	2						••	
34HP	3			••		•		
36HP	3			••			•	
38HP	3			•	•		•	
40HP	3			•		•	•	
42HP	3			•			••	
44HP	3				•		••	
46HP	3					•	••	
48HP	3				_	-	•••	

^{*} Up to a maximum 48HP are realized by combining 8, 10, 12, 14 and 16HP.

Capacity Range Si38-304

4. Capacity Range

Outdoor Units

Capacity Range	5HP	8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP	24HP	26HP
RX (Y)	5M	8M	10M	12M	14M	16M	18M	20M	22M	24M	26M
No of Indoor Units to be Connected	8	13	16			20			22	3	2
Total Capacity Index of Indoor Units to be Connected	62.5 ~ 162.5	100 ~ 260	125 ~ 325	150 ~ 390	175 ~ 455	200 ~ 520	225 ~ 585	250 ~ 650	275 ~ 715	300 ~ 780	325 ~ 845

Capacity Range	28HP	30HP	32HP	34HP	36HP	38HP	40HP	42HP	44HP	46HP	48HP
RX (Y)	28M	30M	32M	34M	36M	38M	40M	42M	44M	46M	48M
No of Indoor Units to be Connected		32		34	36	38			40		
Total Capacity Index of Indoor Units to be Connected	350 ~ 910	375 ~ 975	400 ~ 1040	425 ~ 1105	450 ~ 1170	475 ~ 1235	500 ~ 1300	525 ~ 1365	550 ~ 1430	575 ~ 1495	600 - 1560

Indoor Units

Capacity Rai	nge	0.8 HP	1 HP	1.25 HP	1.6 HP	2 HP	2.5 HP	3 HP	3.2 HP	4 HP	5 HP	8 HP	10 HP
Capacity Inc	dex	20	25	31.25	40	50	62.5	71	80	100	125	200	250
Ceiling Mounted Cassette Type (Double Flow)	FXC	20L	25L	32L	40L	50L	63L	l	80L		125L		
Ceiling Mounted Cassette Type (Multi Flow)	FXF	_	25L	32L	40L	50L	63L	1	80L	100L	125L		
Ceiling Mounted Cassette Corner Type	FXK	_	25L	32L	40L		63L						
Ceiling Mounted Low Silhouette Duct Type	FXYD	20KA	25KA	32KA	40KA	50KA	63KA	_	_	_	_		_
Ceiling Mounted Built-In Type	FXS	20L	25L	32L	40L	50L	63L	80L	100L	125L	_		_
Ceiling Mounted Built-In (Rear Suction) Type	FXYB	20K	25K	32K	40K	50K	63K	_	80K	100K	125K		_
Ceiling Mounted Duct Type	FXM	_	_	_	40L	50L	63L	_	80L	100L	125L	200L	250L
Ceiling Suspended Type	FXH	_		32L	1	1	63L	1	1	100L	1		_
Wall Mounted Type	FXA	20L	25L	32L	40L	50L	63L						_
Floor Standing Type	FXL	20L	25L	32L	40L	50L	63L			_		_	_
Concealed Floor Standing Type	FXN	20L	25L	32L	40L	50L	63L			_			_

Part 2 Specifications

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1. Specifications

1.1 Outdoor Units

1.1.1 Heat Pump 50Hz <RXY-M>

Model Name			RXY5MY1(E)	RXY8MY1(E)			
		kcal / h	12,500	22,400			
★1 Cooling C	apacity (19.5°CWB)	Btu / h	49,200	88,800			
		kW	14.4	26.0			
★2 Cooling C	apacity (19.0°CWB)	kW	14.0	25.2			
		kcal / h	13,800	21,500			
★3 Heating C	apacity	Btu / h	54,600	85,400			
		kW	16.0	25.0			
0		Y1	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)			
Casing Color		Y1E	Light Camel (2.5Y6.5/1.5)	Light Camel (2.5Y6.5/1.5)			
Dimensions: (H×W×D)	mm	1600×635×765	1600×930×765			
Heat Exchanger			Cross Fin Coil	Cross Fin Coil			
Type			Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type			
Piston Displacement		m³/h	19.36	19.36+14.68			
Comp.	Number of Revolutions	r.p.m	6480	6480, 2900			
Comp.	Motor Output×Number of Units	kW	3.5×1	(1.2+4.5)×1			
	Starting Method	l.	Direct on Line	Direct on Line			
	Туре		Propeller Fan	Propeller Fan			
_	Motor Output	kW	0.35×1	0.75×1			
Fan	Air Flow Rate	m³/min	75	175			
	Drive		Direct Drive	Direct Drive			
	Liquid Pipe	mm	φ9.5 (Flare Connection)	φ12.7 (Brazing Connection)			
Connecting Pipes	Gas Pipe	mm	φ19.1 (Brazing Connection)	φ28.6 (Brazing Connection)			
i ipos	Oil Equalizing Pipe	mm	_	_			
Machine Weig	ght	kg	160	235			
Safety Device	es		High Pressure Switch, Fan Driver Overload Protector, Inverter Overload Protector, Fusible Plugs	High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs			
Defrost Metho	od		Deicer	Deicer			
Capacity Con	trol	%	24~100	14~100			
	Refrigerant Name		R22	R22			
Refrigerant	Charge	kg	8.5	13.1			
	Control		Electronic Expansion Valve	Electronic Expansion Valve			
Refrigerator			SUNISO 4GSDID-K	SUNISO 4GSDID-K			
Oil	Charge Volume	L	1.2	1.9+1.6			
Standard Acc	essories		Installation Manual, Operation Manual, Connection Pipes, Clamps	Installation Manual, Operation Manual, Connection Pipes, Clamps			
Drawing No.			4D038970 4D038971A				

Notes:

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- ★1 Indoor temp.: 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- ★3 Indoor temp.: 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length: 7.5m, level difference: 0m.

Model Name			RXY10MY1(E)	RXY12MY1(E)			
		kcal / h	25,000	30,000			
★1 Cooling C	apacity (19.5°CWB)	Btu / h	98,700	118,000			
		kW	28.9	34.5			
★2 Cooling C	apacity (19.0°CWB)	kW	28.0	33.5			
		kcal / h	27,000	30,000			
★3 Heating C	apacity	Btu / h	108,000	118,000			
		kW	31.5	34.7			
0		Y1	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)			
Casing Color		Y1E	Light Camel (2.5Y6.5/1.5)	Light Camel (2.5Y6.5/1.5)			
Dimensions: (H×W×D) mm			1600×930×765	1600×1240×765			
Heat Exchanger			Cross Fin Coil	Cross Fin Coil			
Type			Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type			
	Piston Displacement		19.36+14.68	19.36+14.68			
Comp.	Number of Revolutions	r.p.m	6480, 2900	6480, 2900			
Comp.	Motor Output×Number of Units	kW	(2.75+4.5)×1	(4.2+4.5)×1			
	Starting Method		Direct on Line	Direct on Line			
	Туре		Propeller Fan	Propeller Fan			
_	Motor Output kW		0.75×1	0.75×1			
Fan	Air Flow Rate	m³/min	180	210			
	Drive	l.	Direct Drive	Direct Drive			
	Liquid Pipe	mm	φ12.7 (Brazing Connection)	φ15.9 (Brazing Connection)			
Connecting Pipes	Gas Pipe	mm	φ28.6 (Brazing Connection)	φ34.9 (Brazing Connection)			
Проз	Oil Equalizing Pipe	mm	_	_			
Machine Wei	ght	kg	235	290			
Safety Device	es		High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs	High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs			
Defrost Metho	od		Deicer	Deicer			
Capacity Con	trol	%	14~100	14~100			
	Refrigerant Name		R22	R22			
Refrigerant	Charge	kg	13.9	15.6			
	Control	•	Electronic Expansion Valve	Electronic Expansion Valve			
Refrigerator	•		SUNISO 4GSDID-K	SUNISO 4GSDID-K			
Oil	Charge Volume	L	1.9+1.6	1.9+1.6			
Standard Acc	essories	•	Installation Manual, Operation Manual, Connection Pipes, Clamps	Installation Manual, Operation Manual, Connection Pipes, Clamps			
Drawing No.			4D038972A	4D038973A			

Notes:

- ★1 Indoor temp.: 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m
- *3 Indoor temp.: 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length: 7.5m, level difference: 0m.

Model Name			RXY14MY1(E)	RXY16MY1(E)
kcal / h		kcal / h	35,500	40,000
★1 Cooling Capacity (19.5°CWB)		Btu / h	141,000	158,000
		kW	41.2	46.4
★2 Cooling Ca	apacity (19.0°CWB)	kW	40.0	45.0
		kcal / h	35,500	40,000
★3 Heating C	apacity	Btu / h	142,000	154,000
		kW	41.5	45.0
0 : 0 !		Y1	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)
Casing Color		Y1E	Light Camel (2.5Y6.5/1.5)	Light Camel (2.5Y6.5/1.5)
Dimensions: (H×W×D)	mm	1600×1240×765	1600×1240×765
Heat Exchang	er	•	Cross Fin Coil	Cross Fin Coil
	Туре		Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type
	Piston Displacement	m³/h	19.36+14.68+14.68	19.36+14.68+14.68
Comp.	Number of Revolutions	r.p.m	6480, 2900×2	6480, 2900×2
Comp.	Motor Output×Number of Units	kW	(2.0+4.5+4.5)×1	(3.0+4.5+4.5)×1
	Starting Method	•	Direct on Line	Direct on Line
	Туре		Propeller Fan	Propeller Fan
Fon	Motor Output	kW	0.75×1	0.75×1
Fan	Air Flow Rate	m³/min	210	210
	Drive	•	Direct Drive	Direct Drive
	Liquid Pipe	mm	φ15.9 (Brazing Connection)	φ15.9 (Brazing Connection)
Connecting Pipes	Gas Pipe	mm	φ34.9 (Brazing Connection)	φ34.9 (Brazing Connection)
i ipoc	Oil Equalizing Pipe	mm	_	_
Machine Weig	iht	kg	331	333
Safety Device	s		High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs	High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs
Defrost Metho	d		Deicer	Deicer
Capacity Cont	trol	%	10~100	10~100
	Refrigerant Name		R22	R22
Refrigerant	Charge	kg	17.1	18.6
	Control		Electronic Expansion Valve	Electronic Expansion Valve
Refrigerator			SUNISO 4GSDID-K	SUNISO 4GSDID-K
Oil	Charge Volume	L	1.9+1.6+1.6	1.9+1.6+1.6
Standard Acce	essories		Installation Manual, Operation Manual, Connection Pipes, Clamps	Installation Manual, Operation Manual, Connection Pipes, Clamps
Drawing No.		-	4D038974A	4D038975A

Notes:

- ★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- ★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m
- *3 Indoor temp.: 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length: 7.5m, level difference: 0m.

Model Name (Combination Unit)			RXY18MY1(E)	RXY20MY1(E)
Model Name (Independent Unit)			RXY8MY1(E)+RXY10MY1(E)	RXY10MY1(E)+RXY10MY1(E)
★1 Cooling Capacity (19.5°CWB) kcal / h btu / h		kcal / h	47,400	50,000
		Btu / h	188,000	197,000
		kW	54.8	57.7
★2 Cooling C	apacity (19.0°CWB)	kW	53.2	56.0
		kcal / h	48,500	54,000
★3 Heating C	apacity	Btu / h	193,000	216,000
		kW	56.5	63.0
0 : 0 !		Y1	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)
Casing Color		Y1E	Light Camel (2.5Y6.5/1.5)	Light Camel (2.5Y6.5/1.5)
Dimensions: (H×W×D)	mm	(1600×930×765)+(1600×930×765)	(1600×930×765)+(1600×930×765)
Heat Exchang	ger	•	Cross Fin Coil	Cross Fin Coil
	Туре		Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type
	Piston Displacement	m³/h	(19.36+14.68)×2	(19.36+14.68)×2
Comp.	Number of Revolutions	r.p.m	(6480, 2900)×2	(6480, 2900)×2
Comp.	Motor Output×Number of Units	kW	(1.2+4.5)+(2.75+4.5)	(2.75+4.5)×2
	Starting Method	•	Direct on Line	Direct on Line
	Туре		Propeller Fan	Propeller Fan
F	Motor Output	kW	0.75×2	0.75×2
Fan	Air Flow Rate	m³/min	175+180	180+180
	Drive	•	Direct Drive	Direct Drive
	Liquid Pipe	mm	φ19.1 (Brazing Connection)	φ19.1 (Brazing Connection)
Connecting Pipes	Gas Pipe	mm	φ34.9 (Brazing Connection)	φ34.9 (Brazing Connection)
Прсз	Oil Equalizing Pipe	mm	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)
Machine Weig	ght	kg	235+235	235+235
Safety Devices			High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs	High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs
Defrost Metho	od		Deicer	Deicer
Capacity Con	trol	%	7~100	7~100
	Refrigerant Name	•	R22	R22
Refrigerant	Charge	kg	13.1+13.9	13.9+13.9
	Control	•	Electronic Expansion Valve	Electronic Expansion Valve
Refrigerator	•		SUNISO 4GSDID-K	SUNISO 4GSDID-K
Oil	Charge Volume	L	(1.9+1.6)+(1.9+1.6)	(1.9+1.6)+(1.9+1.6)
Standard Acc	essories	•	Installation Manual, Operation Manual, Connection Pipes, Clamps	Installation Manual, Operation Manual, Connection Pipes, Clamps
Drawing No.			4D038971A, 4D038972A	4D038972A

Notes:

- $\bigstar 1$ Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- $\star 2$ Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- ★3 Indoor temp. : 20°CDB / outdoor temp. : 7°CDB, 6°CWB / Equivalent piping length : 7.5m, level difference : 0m.

Model Name (Combination Unit) Model Name (Independent Unit)			RXY22MY1(E)	RXY24MY1(E)
			RXY10MY1(E)+RXY12MY1(E)	RXY10MY1(E)+RXY14MY1(E)
kcal / h		kcal / h	55,000	60,500
★1 Cooling Capacity (19.5°CWB)		Btu / h	217,000	240,000
		kW	63.4	70.1
★2 Cooling C	apacity (19.0°CWB)	kW	61.5	68.0
		kcal / h	57,000	62,500
★3 Heating C	apacity	Btu / h	226,000	250,000
		kW	66.2	73.0
Cooling Color		Y1	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)
Casing Color		Y1E	Light Camel (2.5Y6.5/1.5)	Light Camel (2.5Y6.5/1.5)
Dimensions: (H×W×D)	mm	(1600×930×765)+(1600×1240×765)	(1600×930×765)+(1600×1240×765)
Heat Exchang	ger	•	Cross Fin Coil	Cross Fin Coil
	Туре		Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type
	Piston Displacement	m³/h	(19.36+14.68)×2	(19.36+14.68)+(19.36+14.68+14.68)
Comp.	Number of Revolutions	r.p.m	(6480, 2900)×2	(6480, 2900)+(6480, 2900×2)
Comp.	Motor Output×Number of Units	kW	(2.75+4.5)+(4.2+4.5)	(2.75+4.5)+(2.0+4.5+4.5)
	Starting Method		Direct on Line	Direct on Line
	Туре		Propeller Fan	Propeller Fan
Fan	Motor Output	kW	0.75×2	0.75×2
Ган	Air Flow Rate	m³/min	180+210	180+210
	Drive		Direct Drive	Direct Drive
_	Liquid Pipe	mm	φ19.1 (Brazing Connection)	φ19.1 (Brazing Connection)
Connecting Pipes	Gas Pipe	mm	φ34.9 (Brazing Connection)	φ41.3 (Brazing Connection)
	Oil Equalizing Pipe	mm	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)
Machine Wei	ght	kg	235+290	235+331
Safety Device	es		High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs	High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs
Defrost Metho	od		Deicer	Deicer
Capacity Control %		%	7~100	6~100
	Refrigerant Name		R22	R22
Refrigerant	Charge	kg	13.9+15.6	13.9+17.1
	Control		Electronic Expansion Valve	Electronic Expansion Valve
Refrigerator			SUNISO 4GSDID-K	SUNISO 4GSDID-K
Oil	Charge Volume	L	(1.9+1.6)+(1.9+1.6)	(1.9+1.6)+(1.9+1.6+1.6)
Standard Acc	essories		Installation Manual, Operation Manual, Connection Pipes, Clamps	Installation Manual, Operation Manual, Connection Pipes, Clamps
Drawing No.			4D038972A, 4D038973A	4D038972A, 4D038974A

Notes:

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- ★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- $\bigstar 2$ Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- ★3 Indoor temp. : 20°CDB / outdoor temp. : 7°CDB, 6°CWB / Equivalent piping length : 7.5m, level difference : 0m.

Model Name (Combination Unit) Model Name (Independent Unit)			RXY26MY1(E)	RXY28MY1(E)
			RXY10MY1(E)+RXY16MY1(E)	RXY12MY1(E)+RXY16MY1(E)
kcal / h		kcal / h	65,000	70,000
★1 Cooling Capacity (19.5°CWB) Btu		Btu / h	257,000	276,000
		kW	75.3	80.9
★2 Cooling C	apacity (19.0°CWB)	kW	73.0	78.5
		kcal / h	67,000	70,000
★3 Heating C	apacity	Btu / h	262,000	272,000
		kW	76.5	79.7
0		Y1	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)
Casing Color		Y1E	Light Camel (2.5Y6.5/1.5)	Light Camel (2.5Y6.5/1.5)
Dimensions: (H×W×D)	mm	(1600×930×765)+(1600×1240×765)	(1600×1240×765)+(1600×1240×765)
Heat Exchang	ger		Cross Fin Coil	Cross Fin Coil
	Туре		Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type
	Piston Displacement	m³/h	(19.36+14.68)+(19.36+14.68+14.68)	(19.36+14.68)+(19.36+14.68+14.68)
Comp.	Number of Revolutions	r.p.m	(6480, 2900)+(6480, 2900×2)	(6480, 2900)+(6480, 2900×2)
comp.	Motor Output×Number of Units	kW	(2.75+4.5)+(3.0+4.5+4.5)	(4.2+4.5)+(3.0+4.5+4.5)
	Starting Method		Direct on Line	Direct on Line
	Туре		Propeller Fan	Propeller Fan
Fan.	Motor Output	kW	0.75×2	0.75×2
Fan	Air Flow Rate	m³/min	180+210	210+210
	Drive		Direct Drive	Direct Drive
	Liquid Pipe	mm	φ22.2 (Brazing Connection)	φ22.2 (Brazing Connection)
Connecting Pipes	Gas Pipe	mm	φ41.3 (Brazing Connection)	φ41.3 (Brazing Connection)
poo	Oil Equalizing Pipe	mm	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)
Machine Wei	ght	kg	235+333	290+333
Safety Device	es		High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs	High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs
Defrost Metho	od		Deicer	Deicer
Capacity Con	trol	%	6~100	6~100
	Refrigerant Name		R22	R22
Refrigerant	Charge	kg	13.9+18.6	15.6+18.6
	Control	•	Electronic Expansion Valve	Electronic Expansion Valve
Refrigerator			SUNISO 4GSDID-K	SUNISO 4GSDID-K
Oil	Charge Volume	L	(1.9+1.6)+(1.9+1.6+1.6)	(1.9+1.6)+(1.9+1.6+1.6)
Standard Acc	essories	•	Installation Manual, Operation Manual, Connection Pipes, Clamps	Installation Manual, Operation Manual, Connection Pipes, Clamps
Drawing No.			4D038972A, 4D038975A	4D038973A, 4D038975A

Notes:

- $\bigstar 1$ Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- $\bigstar 2$ Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- *3 Indoor temp. : 20°CDB / outdoor temp. : 7°CDB, 6°CWB / Equivalent piping length : 7.5m, level difference : 0m.

Model Name (Combination Unit) Model Name (Independent Unit)			RXY30MY1(E)	RXY32MY1(E)
			RXY14MY1(E)+RXY16MY1(E)	RXY16MY1(E)+RXY16MY1(E)
kcal / h		kcal / h	75,500	80,000
★1 Cooling Capacity (19.5°CWB) Btu		Btu / h	299,000	316,000
		kW	87.6	92.8
★2 Cooling C	apacity (19.0°CWB)	kW	85.0	90.0
		kcal / h	75,500	80,000
★3 Heating C	apacity	Btu / h	296,000	308,000
		kW	86.5	90.0
Cooling Color		Y1	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)
Casing Color		Y1E	Light Camel (2.5Y6.5/1.5)	Light Camel (2.5Y6.5/1.5)
Dimensions: (H×W×D)	mm	(1600×1240×765)+(1600×1240×765)	(1600×1240×765)+(1600×1240×765)
Heat Exchang	ger		Cross Fin Coil	Cross Fin Coil
	Туре		Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type
	Piston Displacement	m³/h	(19.36+14.68+14.68)×2	(19.36+14.68+14.68)×2
Comp.	Number of Revolutions	r.p.m	(6480, 2900×2)×2	(6480, 2900×2)×2
Comp.	Motor Output×Number of Units	kW	(2.0+4.5+4.5)+(3.0+4.5+4.5)	(3.0+4.5+4.5)+(3.0+4.5+4.5)
	Starting Method		Direct on Line	Direct on Line
	Туре		Propeller Fan	Propeller Fan
Fon.	Motor Output	kW	0.75×2	0.75×2
Fan	Air Flow Rate	m³/min	210×2	210×2
	Drive		Direct Drive	Direct Drive
	Liquid Pipe	mm	φ22.2 (Brazing Connection)	φ22.2 (Brazing Connection)
Connecting Pipes	Gas Pipe	mm	φ41.3 (Brazing Connection)	φ41.3 (Brazing Connection)
poo	Oil Equalizing Pipe	mm	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)
Machine Wei	ght	kg	331+333	333+333
Safety Device	es		High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs	High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs
Defrost Metho	od		Deicer	Deicer
Capacity Control %		%	5~100	5~100
	Refrigerant Name		R22	R22
Refrigerant	Charge	kg	17.1+18.6	18.6+18.6
	Control		Electronic Expansion Valve	Electronic Expansion Valve
Refrigerator			SUNISO 4GSDID-K	SUNISO 4GSDID-K
Oil	Charge Volume	L	(1.9+1.6+1.6)+(1.9+1.6+1.6)	(1.9+1.6+1.6)+(1.9+1.6+1.6)
Standard Acc	essories	•	Installation Manual, Operation Manual, Connection Pipes, Clamps	Installation Manual, Operation Manual, Connection Pipes, Clamps
Drawing No.			4D038974A, 4D038975A	4D038975A

Notes:

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- ★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- *2 Indoor temp.: 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- *3 Indoor temp. : 20°CDB / outdoor temp. : 7°CDB, 6°CWB / Equivalent piping length : 7.5m, level difference : 0m.

Model Name (Combination Unit)			RXY34MY1(E)	RXY36MY1(E)
Model Name (Independent Unit)			RXY10MY1(E)+RXY10MY1(E)+RXY14MY1(E)	RXY10MY1(E)+RXY10MY1(E)+RXY16MY1(E)
kcal / h			85,500	90,000
★1 Cooling Capacity (19.5°CWB)		Btu / h	338,000	355,000
		kW	99.0	104
★2 Cooling C	apacity (19.0°CWB)	kW	96.0	101
		kcal / h	89,500	94,000
★3 Heating C	apacity	Btu / h	358,000	370,000
		kW	105	108
0		Y1	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)
Casing Color		Y1E	Light Camel (2.5Y6.5/1.5)	Light Camel (2.5Y6.5/1.5)
Dimensions: (H×W×D)	mm	(1600×930×765)+(1600×930×765)+(1600×1240×765)	(1600×930×765)+(1600×930×765)+(1600×1240×765)
Heat Exchang	ger	•	Cross Fin Coil	Cross Fin Coil
	Туре		Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type
	Piston Displacement	m³/h	(19.36+14.68)×2+(19.36+14.68+14.68)	(19.36+14.68)×2+(19.36+14.68+14.68)
Comp.	Number of Revolutions	r.p.m	(6480, 2900)×2+(6480, 2900×2)	(6480, 2900)×2+(6480, 2900×2)
comp.	Motor Output×Number of Units	kW	(2.75+4.5)+(2.75+4.5)+(2.0+4.5+4.5)	(2.75+4.5)+(2.75+4.5)+(3.0+4.5+4.5)
	Starting Method	•	Direct on Line	Direct on Line
	Туре		Propeller Fan	Propeller Fan
F	Motor Output	kW	0.75×3	0.75×3
Fan	Air Flow Rate	m³/min	180+180+210	180+180+210
	Drive	•	Direct Drive	Direct Drive
	Liquid Pipe	mm	φ22.2 (Brazing Connection)	φ22.2 (Brazing Connection)
Connecting Pipes	Gas Pipe	mm	φ41.3 (Brazing Connection)	φ54.1 (Brazing Connection)
1 1000	Oil Equalizing Pipe	mm	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)
Machine Wei	ght	kg	235+235+331	235+235+333
Safety Device	es		High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs	High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs
Defrost Metho	od		Deicer	Deicer
Capacity Con	Capacity Control %		4~100	4~100
	Refrigerant Name	•	R22	R22
Refrigerant	Charge	kg	13.9+13.9+17.1	13.9+13.9+18.6
	Control	•	Electronic Expansion Valve	Electronic Expansion Valve
Refrigerator	•		SUNISO 4GSDID-K	SUNISO 4GSDID-K
Oil	Charge Volume	L	(1.9+1.6)+(1.9+1.6)+(1.9+1.6+1.6)	(1.9+1.6)+(1.9+1.6)+(1.9+1.6+1.6)
Standard Acc	essories	•	Installation Manual, Operation Manual, Connection Pipes, Clamps	Installation Manual, Operation Manual, Connection Pipes, Clamps
Drawing No.			4D038972A, 4D038974A	4D038972A, 4D038975A

Notes:

- $\bigstar 1$ Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- $\star 2$ Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- *3 Indoor temp. : 20°CDB / outdoor temp. : 7°CDB, 6°CWB / Equivalent piping length : 7.5m, level difference : 0m.

Model Name (Combination Unit) Model Name (Independent Unit)			RXY38MY1(E)	RXY40MY1(E)
			RXY10MY1(E)+RXY12MY1(E)+RXY16MY1(E)	RXY10MY1(E)+RXY14MY1(E)+RXY16MY1(E)
kcal / h			95,000	101,000
★1 Cooling Capacity (19.5°CWB) Bt		Btu / h	375,000	398,000
		kW	110	116
★2 Cooling C	apacity (19.0°CWB)	kW	107	113
		kcal / h	97,000	103,000
★3 Heating C	apacity	Btu / h	380,000	404,000
		kW	111	118
0		Y1	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)
Casing Color		Y1E	Light Camel (2.5Y6.5/1.5)	Light Camel (2.5Y6.5/1.5)
Dimensions: (H×W×D)	mm	(1600×930×765)+(1600×1240×765)+(1600×1240×765)	(1600×930×765)+(1600×1240×765)+(1600×1240×765)
Heat Exchang	ger	•	Cross Fin Coil	Cross Fin Coil
	Туре		Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type
	Piston Displacement	m³/h	(19.36+14.68)×2+(19.36+14.68+14.68)	(19.36+14.68)+(19.36+14.68+14.68)×2
Comp.	Number of Revolutions	r.p.m	(6480, 2900)×2+(6480, 2900×2)	(6480, 2900)+(6480, 2900×2)×2
comp.	Motor Output×Number of Units	kW	(2.75+4.5)+(4.2+4.5)+(3.0+4.5+4.5)	(2.75+4.5)+(2.0+4.5+4.5)+(3.0+4.5+4.5)
	Starting Method		Direct on Line	Direct on Line
	Туре		Propeller Fan	Propeller Fan
Fan	Motor Output	kW	0.75×3	0.75×3
ran	Air Flow Rate	m³/min	180+210+210	180+210+210
	Drive	•	Direct Drive	Direct Drive
	Liquid Pipe	mm	φ22.2 (Brazing Connection)	φ22.2 (Brazing Connection)
Connecting Pipes	Gas Pipe	mm	φ54.1 (Brazing Connection)	φ54.1 (Brazing Connection)
i ipoo	Oil Equalizing Pipe	mm	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)
Machine Weig	ght	kg	235+290+333	235+331+333
Safety Devices		•	High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs	High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs
Defrost Metho	od		Deicer	Deicer
Capacity Con	Capacity Control %		4~100	4~100
	Refrigerant Name		R22	R22
Refrigerant	Charge	kg	13.9+15.6+18.6	13.9+17.1+18.6
	Control	•	Electronic Expansion Valve	Electronic Expansion Valve
Refrigerator	•		SUNISO 4GSDID-K	SUNISO 4GSDID-K
Oil	Charge Volume	L	(1.9+1.6)+(1.9+1.6)+(1.9+1.6+1.6)	(1.9+1.6)+(1.9+1.6+1.6)+(1.9+1.6+1.6)
Standard Aco	essories	•	Installation Manual, Operation Manual, Connection Pipes, Clamps	Installation Manual, Operation Manual, Connection Pipes, Clamps
Drawing No.			4D038972A, 4D038973A, 4D038975A	4D038972A, 4D038974A, 4D038975A

Notes:

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- ★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- $\bigstar 2$ Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- ★3 Indoor temp. : 20°CDB / outdoor temp. : 7°CDB, 6°CWB / Equivalent piping length : 7.5m, level difference : 0m.

Model Name (Combination Unit)			RXY42MY1(E)	RXY44MY1(E)
Model Name (Independent Unit)			RXY10MY1(E)+RXY16MY1(E)+RXY16MY1(E)	RXY12MY1(E)+RXY16MY1(E)+RXY16MY1(E)
kcal / h			105,000	110,000
★1 Cooling Capacity (19.5°CWB)		Btu / h	415,000	434,000
		kW	122	127
★2 Cooling C	apacity (19.0°CWB)	kW	118	124
		kcal / h	107,000	110,000
★3 Heating C	apacity	Btu / h	416,000	426,000
		kW	122	125
0 : 0 !		Y1	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)
Casing Color		Y1E	Light Camel (2.5Y6.5/1.5)	Light Camel (2.5Y6.5/1.5)
Dimensions: (H×W×D)	mm	(1600×930×765)+(1600×1240×765)+(1600×1240×765)	(1600×1240×765)+(1600×1240×765)+(1600×1240×765)
Heat Exchang	ger		Cross Fin Coil	Cross Fin Coil
	Туре		Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type
	Piston Displacement	m³/h	(19.36+14.68)+(19.36+14.68+14.68)×2	(19.36+14.68)+(19.36+14.68+14.68)×2
Comp.	Number of Revolutions	r.p.m	(6480, 2900)+(6480, 2900×2)×2	(6480, 2900)+(6480, 2900×2)×2
Comp.	Motor Output×Number of Units	kW	(2.75+4.5)+(3.0+4.5+4.5)×2	(4.2+4.5)+(3.0+4.5+4.5)×2
	Starting Method		Direct on Line	Direct on Line
	Type		Propeller Fan	Propeller Fan
_	Motor Output	kW	0.75×3	0.75×3
Fan	Air Flow Rate	m³/min	180+210+210	210+210+210
	Drive		Direct Drive	Direct Drive
	Liquid Pipe	mm	φ22.2 (Brazing Connection)	φ22.2 (Brazing Connection)
Connecting Pipes	Gas Pipe	mm	φ54.1 (Brazing Connection)	φ54.1 (Brazing Connection)
Проз	Oil Equalizing Pipe	mm	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)
Machine Weig	ght	kg	235+333+333	290+333+333
Safety Device	es	•	High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs	High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs
Defrost Metho	od		Deicer	Deicer
Capacity Con	Capacity Control %		4~100	4~100
Refrigerant	Refrigerant Name	•	R22	R22
	Charge	kg	13.9+18.6+18.6	15.6+18.6+18.6
	Control		Electronic Expansion Valve	Electronic Expansion Valve
Refrigerator	•		SUNISO 4GSDID-K	SUNISO 4GSDID-K
Oil	Charge Volume	L	(1.9+1.6)+(1.9+1.6+1.6)+(1.9+1.6+1.6)	(1.9+1.6)+(1.9+1.6+1.6)+(1.9+1.6+1.6)
Standard Acc	essories		Installation Manual, Operation Manual, Connection Pipes, Clamps	Installation Manual, Operation Manual, Connection Pipes, Clamps
Drawing No.			4D038972A, 4D038975A	4D038973A, 4D038975A

Notes:

- $\bigstar 1$ Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- $\bigstar 2$ Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- *3 Indoor temp. : 20°CDB / outdoor temp. : 7°CDB, 6°CWB / Equivalent piping length : 7.5m, level difference : 0m.

Model Name (Combination Unit) Model Name (Independent Unit)			RXY46MY1(E)	RXY48MY1(E)
			RXY14MY1(E)+RXY16MY1(E)+RXY16MY1(E)	RXY16MY1(E)+RXY16MY1(E)+RXY16MY1(E)
kcal / h			116,000	120,000
★1 Cooling Capacity (19.5°CWB)		Btu / h	457,000	474,000
		kW	134	139
★2 Cooling C	apacity (19.0°CWB)	kW	130	135
		kcal / h	116,000	120,000
★3 Heating C	apacity	Btu / h	450,000	462,000
		kW	132	135
0		Y1	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)
Casing Color		Y1E	Light Camel (2.5Y6.5/1.5)	Light Camel (2.5Y6.5/1.5)
Dimensions:	H×W×D)	mm	(1600×1240×765)+(1600×1240×765)+(1600×1240×765)	(1600×1240×765)+(1600×1240×765)+(1600×1240×765)
Heat Exchang	ger		Cross Fin Coil	Cross Fin Coil
	Туре		Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type
	Piston Displacement	m³/h	(19.36+14.68+14.68)×3	(19.36+14.68+14.68)×3
Comp.	Number of Revolutions	r.p.m	(6480, 2900×2)×3	(6480, 2900×2)×3
comp.	Motor Output×Number of Units	kW	(2.0+4.5+4.5)+(3.0+4.5+4.5)×2	(3.0+4.5+4.5)×3
	Starting Method		Direct on Line	Direct on Line
	Туре		Propeller Fan	Propeller Fan
Fan	Motor Output	kW	0.75×3	0.75×3
ган	Air Flow Rate	m³/min	210+210+210	210+210+210
	Drive		Direct Drive	Direct Drive
_	Liquid Pipe	mm	φ22.2 (Brazing Connection)	φ22.2 (Brazing Connection)
Connecting Pipes	Gas Pipe	mm	φ54.1 (Brazing Connection)	φ54.1 (Brazing Connection)
poo	Oil Equalizing Pipe	mm	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)
Machine Wei	ght	kg	331+333+333	333+333+333
Safety Devices			High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs	High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs
Defrost Metho	od		Deicer	Deicer
Capacity Control %		%	3~100	3~100
	Refrigerant Name	•	R22	R22
Refrigerant	Charge	kg	17.1+18.6+18.6	18.6+18.6+18.6
	Control		Electronic Expansion Valve	Electronic Expansion Valve
Refrigerator	•		SUNISO 4GSDID-K	SUNISO 4GSDID-K
Oil	Charge Volume	L	(1.9+1.6+1.6)+(1.9+1.6+1.6)+(1.9+1.6+1.6)	(1.9+1.6+1.6)+(1.9+1.6+1.6)+(1.9+1.6+1.6)
Standard Acc	essories	•	Installation Manual, Operation Manual, Connection Pipes, Clamps	Installation Manual, Operation Manual, Connection Pipes, Clamps
Drawing No.			4D038974A, 4D038975A	4D038975A

Notes:

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- $\bigstar 1$ Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- $\bigstar 2$ Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- *3 Indoor temp. : 20°CDB / outdoor temp. : 7°CDB, 6°CWB / Equivalent piping length : 7.5m, level difference : 0m.

1.1.2 Heat Pump 60Hz <RXY-M>

Model Name			RXY5MYL(E) RXY5MTL(E)	RXY8MYL(E) RXY8MTL(E)
kcal / h		kcal / h	12,500	20,000
★1 Cooling C	apacity (19.5°CWB)	Btu / h	49,200	78,900
		kW	14.4	23.1
★2 Cooling C	apacity (19.0°CWB)	kW	14.0	22.4
		kcal / h	13,800	21,500
★3 Heating C	apacity	Btu / h	54,600	85,400
		kW	16.0	25.0
Casina Calar		YL, TL	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)
Casing Color		YLE, TLE	Light Camel (2.5Y6.5/1.5)	Light Camel (2.5Y6.5/1.5)
Dimensions: (H×W×D)	mm	1600×635×765	1600×930×765
Heat Exchang	jer		Cross Fin Coil	Cross Fin Coil
	Туре		Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type
	Piston Displacement	m³/h	19.36	19.36+14.68
Comp.	Number of Revolutions	r.p.m	6480	6480, 2900
Comp.	Motor Output×Number of Units	kW	3.5x1	(1.2+4.5)×1
	Starting Method		Direct on Line	Direct on Line
	Type		Propeller Fan	Propeller Fan
F	Motor Output	kW	0.35×1	0.75×1
Fan	Air Flow Rate	m³/min	75	175
	Drive		Direct Drive	Direct Drive
	Liquid Pipe	mm	φ9.5 (Flare Connection)	φ12.7 (Brazing Connection)
Connecting Pipes	Gas Pipe	mm	φ19.1 (Brazing Connection)	φ28.6 (Brazing Connection)
i ipoo	Oil Equalizing Pipe	mm	_	_
Machine Weig	jht	kg	160	235
Safety Device	s		High Pressure Switch, Fan Driver Overload Protector, Inverter Overload Protector, Fusible Plugs	High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs
Defrost Metho	od		Deicer	Deicer
Capacity Cont	trol	%	24~100	14~100
	Refrigerant Name	•	R22	R22
Refrigerant	Charge	kg	8.5	13.1
	Control		Electronic Expansion Valve	Electronic Expansion Valve
Refrigerator			SUNISO 4GSDID-K	SUNISO 4GSDID-K
Oil Charge Volume L		L	1.2	1.9+1.6
Standard Aco	essories	•	Installation Manual, Operation Manual, Connection Pipes, Clamps	Installation Manual, Operation Manual, Connection Pipes, Clamps
Drowing No		YL(E)	4D038976	4D038977
Drawing No.		TL(E)	4D038982	4D038983

Notes:

- $\bigstar 1 \quad \text{Indoor temp.} : 27^{\circ}\text{CDB, } 19.5^{\circ}\text{CWB / outdoor temp.} : 35^{\circ}\text{CDB / Equivalent piping length} : 7.5\text{m, level temp.} : 27^{\circ}\text{CDB / Equivalent piping length} : 7.5\text{m, level temp.} : 27^{\circ}\text{CDB / Equivalent piping length} : 7.5\text{m, level temp.} : 27^{\circ}\text{CDB / Equivalent piping length} : 7.5\text{m, level temp.} : 27^{\circ}\text{CDB / Equivalent piping length} : 7.5\text{m, level temp.} : 27^{\circ}\text{CDB / Equivalent piping length} : 7.5\text{m, level temp.} : 27^{\circ}\text{CDB / Equivalent piping} : 27^{\circ}\text$
- difference : 0m.
 ★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level
- difference : 0m.

 *3 Indoor temp. : 20°CDB / outdoor temp. : 7°CDB, 6°CWB / Equivalent piping length : 7.5m, level difference : 0m.

Model Name			RXY10MYL(E) RXY10MTL(E)	RXY12MYL(E) RXY12MTL(E)
ko		kcal / h	25,000	30,000
★1 Cooling C	apacity (19.5°CWB)	Btu / h	98,700	118,000
		kW	28.9	34.5
★2 Cooling C	apacity (19.0°CWB)	kW	28.0	33.5
		kcal / h	27,000	30,000
★3 Heating C	apacity	Btu / h	108,000	118,000
		kW	31.5	34.7
Casing Color		YL, TL	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)
Casing Color		YLE, TLE	Light Camel (2.5Y6.5/1.5)	Light Camel (2.5Y6.5/1.5)
Dimensions: (H×W×D)	mm	1600×930×765	1600×1240×765
Heat Exchang	ger		Cross Fin Coil	Cross Fin Coil
	Туре		Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type
	Piston Displacement	m³/h	19.36+14.68	19.36+14.68
Comp.	Number of Revolutions	r.p.m	6480, 2900	6480, 2900
Comp.	Motor Output×Number of Units	kW	(2.75+4.5)×1	(4.2+4.5)×1
	Starting Method		Direct on Line	Direct on Line
	Туре		Propeller Fan	Propeller Fan
-	Motor Output	kW	0.75×1	0.75×1
Fan	Air Flow Rate	m³/min	180	210
	Drive		Direct Drive	Direct Drive
	Liquid Pipe	mm	φ12.7 (Brazing Connection)	φ15.9 (Brazing Connection)
Connecting Pipes	Gas Pipe	mm	φ28.6 (Brazing Connection)	φ34.9 (Brazing Connection)
pee	Oil Equalizing Pipe	mm	_	_
Machine Weig	ght	kg	235	290
Safety Device	es		High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs	High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs
Defrost Metho	od		Deicer	Deicer
Capacity Con	Capacity Control %		14~100	14~100
	Refrigerant Name		R22	R22
Refrigerant	Charge	kg	13.9	15.6
	Control		Electronic Expansion Valve	Electronic Expansion Valve
Refrigerator			SUNISO 4GSDID-K	SUNISO 4GSDID-K
Oil Charge Volume L		L	1.9+1.6	1.9+1.6
Standard Aco	essories	•	Installation Manual, Operation Manual, Connection Pipes, Clamps	Installation Manual, Operation Manual, Connection Pipes, Clamps
Drawing No.		YL(E)	4D038978	4D038979
Drawing No.		TL(E)	4D038984	4D038985

Notes:

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- ★1 Indoor temp.: 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m
- $\star 2$ Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- *3 Indoor temp.: 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length: 7.5m, level difference: 0m.

Model Name			RXY14MYL(E) RXY14MTL(E)	RXY16MYL(E) RXY16MTL(E)
kcal / h		kcal / h	35,500	40,000
★1 Cooling Ca	apacity (19.5°CWB)	Btu / h	141,000	158,000
		kW	41.2	46.4
★2 Cooling Ca	apacity (19.0°CWB)	kW	40.0	45.0
		kcal / h	35,500	40,000
★3 Heating Ca	apacity	Btu / h	142,000	154,000
		kW	41.5	45.0
Casing Color		YL, TL	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)
Casing Color		YLE, TLE	Light Camel (2.5Y6.5/1.5)	Light Camel (2.5Y6.5/1.5)
Dimensions: (I	H×W×D)	mm	1600×1240×765	1600×1240×765
Heat Exchang	er		Cross Fin Coil	Cross Fin Coil
	Туре		Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type
	Piston Displacement	m³/h	19.36+14.68+14.68	19.36+14.68+14.68
Comp.	Number of Revolutions	r.p.m	6480, 2900×2	6480, 2900×2
comp.	Motor Output×Number of Units	kW	(2.0+4.5+4.5)×1	(3.0+4.5+4.5)×1
	Starting Method		Direct on Line	Direct on Line
	Туре		Propeller Fan	Propeller Fan
Гол	Motor Output	kW	0.75×1	0.75×1
Fan	Air Flow Rate	m³/min	210	210
	Drive		Direct Drive	Direct Drive
	Liquid Pipe	mm	φ15.9 (Brazing Connection)	φ15.9 (Brazing Connection)
Connecting Pipes	Gas Pipe	mm	φ34.9 (Brazing Connection)	φ34.9 (Brazing Connection)
,500	Oil Equalizing Pipe	mm	_	_
Machine Weig	pht	kg	331	333
Safety Device	s		High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs	High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs
Defrost Metho	d		Deicer	Deicer
Capacity Cont	trol	%	10~100	10~100
	Refrigerant Name		R22	R22
Refrigerant	Charge	kg	17.1	18.6
	Control		Electronic Expansion Valve	Electronic Expansion Valve
Refrigerator			SUNISO 4GSDID-K	SUNISO 4GSDID-K
Oil	Charge Volume	L	1.9+1.6+1.6	1.9+1.6+1.6
Standard Acce	essories		Installation Manual, Operation Manual, Connection Pipes, Clamps	Installation Manual, Operation Manual, Connection Pipes, Clamps
Drawing No.		YL(E)	4D038980	4D038981
Diawing 140.		TL(E)	4D038986	4D038987

Notes:

- $\bigstar 1 \quad \text{Indoor temp.}: 27^{\circ}\text{CDB, } 19.5^{\circ}\text{CWB / outdoor temp.}: 35^{\circ}\text{CDB / Equivalent piping length}: 7.5\text{m, level of the length} = 1.5^{\circ}\text{CDB / Equivalent piping length} = 1.5^{\circ}\text{CDB / Equivalent piping} = 1.5$
- ★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level
- difference : 0m.

 ★3 Indoor temp. : 20°CDB / outdoor temp. : 7°CDB, 6°CWB / Equivalent piping length : 7.5m, level difference : 0m.

Model Name (Combination Unit)			RXY18MYL(E) RXY18MTL(E)	RXY20MYL(E) RXY20MTL(E)
Model Name (Independent Unit)			RXY8MYL(E)+RXY10MYL(E) RXY8MTL(E)+RXY10MTL(E)	RXY10MYL(E)+RXY10MYL(E) RXY10MTL(E)+RXY10MTL(E)
★1 Cooling Capacity (19.5°CWB) kcal / h Btu / h		kcal / h	45,000	50,000
		Btu / h	178,000	197,000
		kW	52.0	57.7
★2 Cooling C	apacity (19.0°CWB)	kW	50.4	56.0
		kcal / h	48,500	54,000
★3 Heating Capacity		Btu / h	193,000	216,000
		kW	56.5	63.0
Casing Calar		YL, TL	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)
Casing Color		YLE, TLE	Light Camel (2.5Y6.5/1.5)	Light Camel (2.5Y6.5/1.5)
Dimensions: ((H×W×D)	mm	(1600×930×765)+(1600×930×765)	(1600×930×765)+(1600×930×765)
Heat Exchanger			Cross Fin Coil	Cross Fin Coil
	Туре		Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type
	Piston Displacement	m³/h	(19.36+14.68)×2	(19.36+14.68)×2
Comp.	Number of Revolutions	r.p.m	(6480, 2900)×2	(6480, 2900)×2
Comp.	Motor Output×Number of Units	kW	(1.2+4.5)+(2.75+4.5)	(2.75+4.5)×2
	Starting Method		Direct on Line	Direct on Line
	Туре		Propeller Fan	Propeller Fan
Fan	Motor Output	kW	0.75×2	0.75×2
ган	Air Flow Rate	m³/min	175+180	180+180
	Drive		Direct Drive	Direct Drive
	Liquid Pipe	mm	φ19.1 (Brazing Connection)	φ19.1 (Brazing Connection)
Connecting Pipes	Gas Pipe	mm	φ34.9 (Brazing Connection)	φ34.9 (Brazing Connection)
poo	Oil Equalizing Pipe	mm	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)
Machine Weig	ght	kg	235+235	235+235
Safety Devices			High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs	High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs
Defrost Metho	od		Deicer	Deicer
Capacity Con	trol	%	7~100	7~100
Refrigerant	Refrigerant Name		R22	R22
	Charge	kg	13.1+13.9	13.9+13.9
	Control		Electronic Expansion Valve	Electronic Expansion Valve
Refrigerator Oil			SUNISO 4GSDID-K	SUNISO 4GSDID-K
	Charge Volume	L	(1.9+1.6)+(1.9+1.6)	(1.9+1.6)+(1.9+1.6)
Standard Accessories			Installation Manual, Operation Manual, Connection Pipes, Clamps	Installation Manual, Operation Manual, Connection Pipes, Clamps
Drawing No. $\frac{\text{YL(E)}}{\text{TL(E)}}$		YL(E)	4D038977, 4D038978	4D038978
		TL(E)	4D038983, 4D038984	4D038984

Notes:

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- ★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- ★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- $\bigstar 3$ Indoor temp. : 20°CDB / outdoor temp. : 7°CDB, 6°CWB / Equivalent piping length : 7.5m, level difference : 0m.

Model Name (Combination Unit)			RXY22MYL(E) RXY22MTL(E)	RXY24MYL(E) RXY24MTL(E)
Model Name (Independent Unit)			RXY10MYL(E)+RXY12MYL(E) RXY10MTL(E)+RXY12MTL(E)	RXY10MYL(E)+RXY14MYL(E) RXY10MTL(E)+RXY14MTL(E)
kcal / h		kcal / h	55,000	60,500
★1 Cooling C	apacity (19.5°CWB)	Btu / h	217,000	240,000
		kW	63.4	70.1
★2 Cooling C	apacity (19.0°CWB)	kW	61.5	68.0
1		kcal / h	57,000	62,500
★3 Heating C	apacity	Btu / h	226,000	250,000
		kW	66.2	73.0
0		YL, TL	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)
Casing Color		YLE, TLE	Light Camel (2.5Y6.5/1.5)	Light Camel (2.5Y6.5/1.5)
Dimensions: (H×W×D)	mm	(1600×930×765)+(1600×1240×765)	(1600×930×765)+(1600×1240×765)
Heat Exchang	jer		Cross Fin Coil	Cross Fin Coil
	Туре		Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type
	Piston Displacement	m³/h	(19.36+14.68)×2	(19.36+14.68)+(19.36+14.68+14.68)
Comp.	Number of Revolutions	r.p.m	(6480, 2900)×2	(6480, 2900)+(6480, 2900×2)
Comp.	Motor Output×Number of Units	kW	(2.75+4.5)+(4.2+4.5)	(2.75+4.5)+(2.0+4.5+4.5)
	Starting Method		Direct on Line	Direct on Line
	Туре		Propeller Fan	Propeller Fan
_	Motor Output	kW	0.75×2	0.75×2
Fan	Air Flow Rate	m³/min	180+210	180+210
	Drive		Direct Drive	Direct Drive
	Liquid Pipe	mm	φ19.1 (Brazing Connection)	φ19.1 (Brazing Connection)
Connecting Pipes	Gas Pipe	mm	φ34.9 (Brazing Connection)	φ41.3 (Brazing Connection)
Проз	Oil Equalizing Pipe	mm	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)
Machine Weig	pht	kg	235+290	235+331
Safety Devices			High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs	High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs
Defrost Method			Deicer	Deicer
Capacity Control %		%	7~100	6~100
Refrigerant	Refrigerant Name		R22	R22
	Charge	kg	13.9+15.6	13.9+17.1
	Control		Electronic Expansion Valve	Electronic Expansion Valve
Refrigerator Oil			SUNISO 4GSDID-K	SUNISO 4GSDID-K
	Charge Volume	L	(1.9+1.6)+(1.9+1.6)	(1.9+1.6)+(1.9+1.6+1.6)
Standard Accessories			Installation Manual, Operation Manual, Connection Pipes, Clamps	Installation Manual, Operation Manual, Connection Pipes, Clamps
Drawing No		YL(E)	4D038978, 4D038979	4D038978, 4D038980
		TL(E)	4D038984, 4D038985	4D038984, 4D038986
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Notes:

- ★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- ★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- $\bigstar 3$ Indoor temp. : 20°CDB / outdoor temp. : 7°CDB, 6°CWB / Equivalent piping length : 7.5m, level difference : 0m.

Model Name (Combination Unit)			RXY26MYL(E) RXY26MTL(E)	RXY28MYL(E) RXY28MTL(E)
Model Name (Independent Unit)			RXY10MYL(E)+RXY16MYL(E) RXY10MTL(E)+RXY16MTL(E)	RXY12MYL(E)+RXY16MYL(E) RXY12MTL(E)+RXY16MTL(E)
★1 Cooling Capacity (19.5°CWB) kcal / h Btu / h		kcal / h	65,000	70,000
		Btu / h	257,000	276,000
		kW	75.3	80.9
★2 Cooling C	apacity (19.0°CWB)	kW	73.0	78.5
		kcal / h	67,000	70,000
★3 Heating Capacity		Btu / h	262,000	272,000
		kW	76.5	79.7
Casing Calar		YL, TL	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)
Casing Color		YLE, TLE	Light Camel (2.5Y6.5/1.5)	Light Camel (2.5Y6.5/1.5)
Dimensions: ((H×W×D)	mm	(1600×930×765)+(1600×1240×765)	(1600×1240×765)+(1600×1240×765)
Heat Exchanger			Cross Fin Coil	Cross Fin Coil
	Туре		Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type
	Piston Displacement	m³/h	(19.36+14.68)+(19.36+14.68+14.68)	(19.36+14.68)+(19.36+14.68+14.68)
Comp.	Number of Revolutions	r.p.m	(6480, 2900)+(6480, 2900×2)	(6480, 2900)+(6480, 2900×2)
Comp.	Motor Output×Number of Units	kW	(2.75+4.5)+(3.0+4.5+4.5)	(4.2+4.5)+(3.0+4.5+4.5)
	Starting Method		Direct on Line	Direct on Line
	Туре		Propeller Fan	Propeller Fan
Fan	Motor Output	kW	0.75×2	0.75×2
ıaıı	Air Flow Rate	m³/min	180+210	210+210
	Drive		Direct Drive	Direct Drive
	Liquid Pipe	mm	φ22.2 (Brazing Connection)	φ22.2 (Brazing Connection)
Connecting Pipes	Gas Pipe	mm	φ41.3 (Brazing Connection)	φ41.3 (Brazing Connection)
	Oil Equalizing Pipe	mm	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)
Machine Wei	ght	kg	235+333	290+333
Safety Devices			High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs	High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs
Defrost Method			Deicer	Deicer
Capacity Con	trol	%	6~100	6~100
Refrigerant	Refrigerant Name		R22	R22
	Charge	kg	13.9+18.6	15.6+18.6
	Control		Electronic Expansion Valve	Electronic Expansion Valve
Refrigerator Oil			SUNISO 4GSDID-K	SUNISO 4GSDID-K
	Charge Volume	L	(1.9+1.6)+(1.9+1.6+1.6)	(1.9+1.6)+(1.9+1.6+1.6)
Standard Accessories			Installation Manual, Operation Manual, Connection Pipes, Clamps	Installation Manual, Operation Manual, Connection Pipes, Clamps
Drawing No. $\frac{\text{YL(E)}}{\text{TL(E)}}$		YL(E)	4D038978, 4D038981	4D038979, 4D038981
		TL(E)	4D038984, 4D038987	4D038985, 4D038987

Notes:

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- ★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- ★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- $\bigstar 3$ Indoor temp. : 20°CDB / outdoor temp. : 7°CDB, 6°CWB / Equivalent piping length : 7.5m, level difference : 0m.

Safety Devices Cürrent Relay, Inverter Overload Protector, Fusible Plugs Defrost Method Deicer Capacity Control Refrigerant Name Refrigerant Control Refrigerator Oil Charge Volume L (1.9+1.6+1.6)+(1.9+1.6+1.6) Standard Accessories Cürrent Relay, Inverter Overload Protector, Fusible Plugs Deicer Deicer Deicer Refrigerator S=2 R22 R22 R22 R22 R22 R22 R22	Model Name (Combination Unit)			RXY30MYL(E) RXY30MTL(E)	RXY32MYL(E) RXY32MTL(E)
*1 Cooling Capacity (19.5°CWB) #2 Cooling Capacity (19.0°CWB) #2 Cooling Capacity (19.0°CWB) #2 Cooling Capacity (19.0°CWB) #3 Heating Capacity (19.0°CWB) #4 W 85.0 99.0 #5 But / h 296.000 80.000 #5 W 85.0 99.0 #6 But / h 296.000 308.000 #6 W 86.5 99.0 #6 But / h 296.000 308.000 #6 W 86.5 99.0 #6 But / h 296.000 308.000 #6 W 86.5 99.0 #6 But / h 296.000 308.000 #6 W 86.5 99.0 #6 But / h 296.000 308.000 #6 W 86.5 99.0 #6 But / h 296.000 308.000 #6 W 86.5 99.0 #6 But / h 296.000 308.000 #6 But / h 296.000 #6 But / h 296.000 308.000 #6 But / h 296.000 308.000 #6	Model Name (Independent Unit)			RXY14MYL(E)+RXY16MYL(E) RXY14MTL(E)+RXY16MTL(E)	RXY16MYL(E)+RXY16MYL(E) RXY16MTL(E)+RXY16MTL(E)
## 2 Cooling Capacity (19.0°CWB) MW 87.6 92.8 ## 2 Cooling Capacity (19.0°CWB) MW 85.0 90.0 ## 3 Heating Capacity MW 85.5 90.0 ## 3 Heating Capacity MW 86.5 90.0 ## 3 Heating Capacity YL, TL Lony Milte (597.5/1) Lony Milte (597.5/1) ## 3 Heating Capacity YL, TL Lony Milte (597.5/1) Lony Milte (597.5/1) ## 4 Long Milte (597.5/1) Lony Milte (597.5/1) Light Camel (2.576.5/1.5) ## 5 Light Camel (2.576.5/1.5) Light Camel (2.576.5/1.5) Light Camel (2.576.5/1.5) ## 5 Light Camel (2.576.5/1.5) Light Camel (2.576.5/1.5) Light Camel (2.576.5/1.5) ## 5 Light Camel (2.576.5/1.5) Light Camel (2.576.5/1.5) Light Camel (2.576.5/1.5) ## 6 Light Camel (2.576.5/1.5) Light Camel (2.576.5/1.5) Light Camel (2.576.5/1.5) ## 6 Light Camel (2.576.5/1.5) Light Camel (2.576.5/1.5) Light Camel (2.576.5/1.5) ## 7 Light Camel (2.576.5/1.5) Light Camel (2.576.5/1.5) ## 7 Light Camel (2.576.5/1.5) Light Camel (2.576.5/1.5) Light Camel (2.576.5/1.5) ## 7 Light Camel (2.576.5/1.5) Light Camel (2.576.5/1.5) ## 7 Light Camel (2.576.5/1.5) Light Camel (2.576.5/1.5) Light Camel (2.576.5/1.5) ## 7 Light Camel (2.576.5/1.5) Light Camel (2.576.5/1.5) ## 7 Light Camel (2.576.5/1.5) Light Camel (2.576.5/1.5) Light Camel (2.576.5/1.5) ## 7 Light Camel (2.576.5/1.5) Light Camel (2.576.5/1.5) ## 7 Light Camel (2.576.5/1.5) Light Camel (2.576.5/1.5) ## 7 Light Camel (2.576.5/1.5) Light Camel (2.576.5/1.5) Light Camel (2.576.5/1.5) ## 7 Light Camel (2.576.5/1.5) Light Camel (2.576.5/1.5) Light Camel (2.576.5/1.5) ## 7 Light Camel (2.576.5/1.5) Light Camel (2.576.5/1.5) Light Camel (2.576.5/1.5) ## 7 Light Camel (2.576.5/1.5) Light Camel (2.57	kcal / h		kcal / h	75,500	80,000
#2 Cooling Capacity (19.0°CWB)	★1 Cooling C	apacity (19.5°CWB)	Btu / h	299,000	316,000
			kW	87.6	92.8
*3 Heating Capacity Bitu / h 296,000 308,000	★2 Cooling C	apacity (19.0°CWB)	kW	85.0	90.0
Refrigerator Refr			kcal / h	75,500	80,000
YL, TL	★3 Heating C	apacity	Btu / h	296,000	308,000
Casing Color			kW	86.5	90.0
Year Head Light Carnet (2.5Y6.571.5) (1600x1240x765)+	0		YL, TL	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)
Heat Exchanger	Casing Color		YLE, TLE	Light Camel (2.5Y6.5/1.5)	Light Camel (2.5Y6.5/1.5)
Type	Dimensions: (H×W×D)	mm	(1600×1240×765)+(1600×1240×765)	(1600×1240×765)+(1600×1240×765)
Piston Displacement	Heat Exchang	jer		Cross Fin Coil	Cross Fin Coil
Comp. Number of Revolutions of Revolutions of Intervolutions of Units r.p.m (6480, 2900x2)x2 (6480, 2900x2)x2 Motor Outputx-Number of Units kW (2.0+4.5+4.5)+(3.0+4.5+4.5) (3.0+4.5+4.5)+(3.0+4.5+4.5) Starting Method Direct on Line Direct on Line Fan Type Propeller Fan Propeller Fan Motor Output kW 0.75x2 0.75x2 Air Flow Rate m³/min 210x2 210x2 Drive Direct Drive Direct Drive Direct Drive Connecting Pipes mm \$22.2 (Brazing Connection) \$22.2 (Brazing Connection) Gas Pipe mm \$41.3 (Brazing Connection) \$41.3 (Brazing Connection) Machine Weight kg 331+333 333+333 Safety Devices High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs High Pressure Switch, Fan Driver Overload Protector, Fusible Plugs Defrost Method Deicer Deicer Deicer Capacity Control % 5~100 \$5-100 Refrigerant Name Re2 Re2		Туре		Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type
Motor OutputxNumber of Units KW (2.0+4.5+4.5)+(3.0+4.5+4.5) (3.0+4.5+4.5)+(3.0+4.5+4.5)		Piston Displacement	m³/h	(19.36+14.68+14.68)×2	(19.36+14.68+14.68)×2
Motor OutputxNumber of Units KW (2.0+4.5+4.5)+(3.0+4.5+4.5) (3.0+4.5+4.5)+(3.0+4.5+4.5) Starting Method	Comp	Number of Revolutions	r.p.m	(6480, 2900×2)×2	(6480, 2900×2)×2
Type	Comp.		kW	(2.0+4.5+4.5)+(3.0+4.5+4.5)	(3.0+4.5+4.5)+(3.0+4.5+4.5)
Fan		Starting Method		Direct on Line	Direct on Line
Fan bridge Air Flow Rate Drive Direct Drive D		Type		Propeller Fan	Propeller Fan
Air Flow Rate m³/min 210x2 210x2 210x2	F	Motor Output	kW	0.75×2	0.75×2
Liquid Pipe mm \$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ran	Air Flow Rate	m³/min	210×2	210×2
Connecting Pipes Gas Pipe mm		Drive		Direct Drive	Direct Drive
Pipes Gas Fipe Inim (φ41.3 (Brazing Cornection)) (φ41.5 (Brazing Cornection)) Oil Equalizing Pipe mm φ6.4 (Flare Connection) φ6.4 (Flare Connection) Machine Weight kg 331+333 333+333 Defrost Method Pligh Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs High Pressure Switch, Fan Driver Overload Protector, Current Relay, Inverter Overload Protector, Fusible Plugs Defrost Method Deicer Deicer Capacity Control % 5~100 Refrigerant Name R22 R22 Refrigerant Name R22 R22 Control Electronic Expansion Valve Electronic Expansion Valve Refrigerator Oil SUNISO 4GSDID-K SUNISO 4GSDID-K Standard Accesories Installation Manual, Operation Manual, Connection Pipes, Clamps Installation Manual, Operation Manual, Operation Manual, Connection Pipes, Clamps		Liquid Pipe	mm	φ22.2 (Brazing Connection)	φ22.2 (Brazing Connection)
Machine Weight kg 331+333 333+333 Safety Devices High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Eurible Plugs Defrost Method Deicer Deicer Capacity Control % 5~100 5~100 Refrigerant Name R22 R22 Charge kg 17.1+18.6 18.6+18.6 Control Electronic Expansion Valve Electronic Expansion Valve Refrigerator Oil Charge Volume L (1.9+1.6+1.6)+(1.9+1.6+1.6) (1.9+1.6+1.6)+(1.9+1.6+1.6) Oil Charge Volume L (1.9+1.6+1.6)+(1.9+1.6+1.6) (1.9+1.6+1.6)+(1.9+1.6+1.6) Standard Accesories Installation Manual, Operation Manual, Connection Pipes, Clamps Installation Manual, Operation Manual		Gas Pipe	mm	φ41.3 (Brazing Connection)	φ41.3 (Brazing Connection)
High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Eusible Plugs Defrost Method Deicer Deicer	i ipoo	Oil Equalizing Pipe	mm	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)
Safety Devices Cürrent Relay, Inverter Overload Protector, Fusible Plugs Defrost Method Capacity Control	Machine Weig	ht	kg	331+333	333+333
Capacity Control % 5~100 5~100 Refrigerant Name Refrigerant Name R22 R22 Charge kg 17.1+18.6 18.6+18.6 Control Electronic Expansion Valve Electronic Expansion Valve Refrigerator Oil SUNISO 4GSDID-K SUNISO 4GSDID-K Charge Volume L (1.9+1.6+1.6)+(1.9+1.6+1.6) (1.9+1.6+1.6)+(1.9+1.6+1.6) Standard Accessories Installation Manual, Operation Manual, Connection Pipes, Clamps Installation Manual, Operation Manual, Oper				Current Relay, Inverter Overload Protector,	
Refrigerant Name R22 R22	Defrost Method			Deicer	Deicer
Refrigerant Charge kg 17.1+18.6 18.6+18.6 Control Electronic Expansion Valve Electronic Expansion Valve Refrigerator Oil Charge Volume L (1.9+1.6+1.6)+(1.9+1.6+1.6) (1.9+1.6+1.6)+(1.9+1.6+1.6) Standard Accessories Installation Manual, Operation Manual, Connection Pipes, Clamps Installation Manual, Operation Manual, Operatio	Capacity Control %		%	5~100	5~100
Control Electronic Expansion Valve Electronic Expansion Valve	Refrigerant	Refrigerant Name		R22	R22
SUNISO 4GSDID-K SUNISO 4GSDID-K		Charge	kg	17.1+18.6	18.6+18.6
Charge Volume L (1.9+1.6+1.6)+(1.9+1.6+1.6) (1.9+1.6+1.6)+(1.9+1.6+1.6) Standard Accessories Installation Manual, Operation Manual, Connection Pipes, Clamps VL(E) 4D038980, 4D038981 (1.9+1.6+1.6)+(1.9+1.6+1.6) Installation Manual, Operation		Control		Electronic Expansion Valve	Electronic Expansion Valve
Standard Accessories Installation Manual, Operation Manual, Connection Pipes, Clamps YL(E) 4D038980, 4D038981 (1.341.041.071.071.071.071.071.071.071.071.071.07				SUNISO 4GSDID-K	SUNISO 4GSDID-K
Clamps Clamps Clamps 4D038980, 4D038981 4D038981 4D038981		Charge Volume	L	(1.9+1.6+1.6)+(1.9+1.6+1.6)	(1.9+1.6+1.6)+(1.9+1.6+1.6)
Drawing No.	Standard Accessories				Installation Manual, Operation Manual, Connection Pipes, Clamps
Diawing No.	Drawing No		YL(E)	4D038980, 4D038981	4D038981
TL(E) 4D038986, 4D038987 4D038987			TL(E)	4D038986, 4D038987	4D038987

Notes:

- ★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- ★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- $\bigstar 3$ Indoor temp. : 20°CDB / outdoor temp. : 7°CDB, 6°CWB / Equivalent piping length : 7.5m, level difference : 0m.

Model Name (Combination Unit)			RXY34MYL(E) RXY34MTL(E)	RXY36MYL(E) RXY36MTL(E)
Model Name (Independent Unit)			RXY10MYL(E)+RXY10MYL(E)+RXY14MYL(E) RXY10MTL(E)+RXY10MTL(E)+RXY14MTL(E)	RXY10MYL(E)+RXY10MYL(E)+RXY16MYL(E) RXY10MTL(E)+RXY10MTL(E)+RXY16MTL(E)
		kcal / h	85,500	90,000
★1 Cooling C	apacity (19.5°CWB)	Btu / h	338,000	355,000
		kW	99.0	104
★2 Cooling C	apacity (19.0°CWB)	kW	96.0	101
		kcal / h	89,500	94,000
★3 Heating C	apacity	Btu / h	358,000	370,000
		kW	105	108
Casing Calar		YL, TL	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)
Casing Color		YLE, TLE	Light Camel (2.5Y6.5/1.5)	Light Camel (2.5Y6.5/1.5)
Dimensions: (H×W×D)	mm	(1600×930×765)+(1600×930×765)+(1600×1240×765)	(1600×930×765)+(1600×930×765)+(1600×1240×765)
Heat Exchanç	ger		Cross Fin Coil	Cross Fin Coil
	Туре		Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type
	Piston Displacement	m³/h	(19.36+14.68)×2+(19.36+14.68+14.68)	(19.36+14.68)×2+(19.36+14.68+14.68)
Comp.	Number of Revolutions	r.p.m	(6480, 2900)×2+(6480, 2900×2)	(6480, 2900)×2+(6480, 2900×2)
Comp.	Motor Output×Number of Units	kW	(2.75+4.5)+(2.75+4.5)+(2.0+4.5+4.5)	(2.75+4.5)+(2.75+4.5)+(3.0+4.5+4.5)
	Starting Method		Direct on Line	Direct on Line
	Туре		Propeller Fan	Propeller Fan
Fan	Motor Output	kW	0.75×3	0.75×3
ган	Air Flow Rate	m³/min	180+180+210	180+180+210
	Drive		Direct Drive	Direct Drive
	Liquid Pipe	mm	φ22.2 (Brazing Connection)	φ22.2 (Brazing Connection)
Connecting Pipes	Gas Pipe	mm	φ41.3 (Brazing Connection)	φ54.1 (Brazing Connection)
poo	Oil Equalizing Pipe	mm	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)
Machine Weig	ght	kg	235+235+331	235+235+333
Safety Device	es		High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs	High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs
Defrost Metho	od		Deicer	Deicer
Capacity Con	trol	%	4~100	4~100
	Refrigerant Name		R22	R22
Refrigerant	Charge	kg	13.9+13.9+17.1	13.9+13.9+18.6
Control			Electronic Expansion Valve	Electronic Expansion Valve
Refrigerator			SUNISO 4GSDID-K	SUNISO 4GSDID-K
Oil	Charge Volume	L	(1.9+1.6)+(1.9+1.6)+(1.9+1.6+1.6)	(1.9+1.6)+(1.9+1.6)+(1.9+1.6+1.6)
Standard Acc	essories		Installation Manual, Operation Manual, Connection Pipes, Clamps	Installation Manual, Operation Manual, Connection Pipes, Clamps
Drawing No.		YL(E)	4D038978, 4D038980	4D038978, 4D038981
Diawing INO.		TL(E)	4D038984, 4D038986	4D038984, 4D038987

Notes:

- $\bigstar 1$ Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- ★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- $\bigstar 3$ Indoor temp. : 20°CDB / outdoor temp. : 7°CDB, 6°CWB / Equivalent piping length : 7.5m, level difference : 0m.

Model Name (Combination Unit)			RXY38MYL(E) RXY38MTL(E)	RXY40MYL(E) RXY40MTL(E)
Model Name (Independent Unit)			RXY10MYL(E)+RXY12MYL(E)+RXY16MYL(E) RXY10MTL(E)+RXY12MTL(E)+RXY16MTL(E)	RXY10MYL(E)+RXY14MYL(E)+RXY16MYL(E) RXY10MTL(E)+RXY14MTL(E)+RXY16MTL(E)
		kcal / h	95,000	101,000
★1 Cooling C	apacity (19.5°CWB)	Btu / h	375,000	398,000
		kW	110	116
★2 Cooling C	apacity (19.0°CWB)	kW	107	113
		kcal / h	97,000	103,000
★3 Heating C	apacity	Btu / h	380,000	404,000
		kW	111	118
Casing Calar		YL, TL	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)
Casing Color		YLE, TLE	Light Camel (2.5Y6.5/1.5)	Light Camel (2.5Y6.5/1.5)
Dimensions: (H×W×D)	mm	(1600×930×765)+(1600×1240×765)+(1600×1240×765)	(1600×930×765)+(1600×1240×765)+(1600×1240×765)
Heat Exchanç	ger		Cross Fin Coil	Cross Fin Coil
	Туре		Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type
	Piston Displacement	m³/h	(19.36+14.68)×2+(19.36+14.68+14.68)	(19.36+14.68)+(19.36+14.68+14.68)×2
Comp.	Number of Revolutions	r.p.m	(6480, 2900)×2+(6480, 2900×2)	(6480, 2900)+(6480, 2900×2)×2
Comp.	Motor Output×Number of Units	kW	(2.75+4.5)+(4.2+4.5)+(3.0+4.5+4.5)	(2.75+4.5)+(2.0+4.5+4.5)+(3.0+4.5+4.5)
	Starting Method		Direct on Line	Direct on Line
	Туре		Propeller Fan	Propeller Fan
Fan	Motor Output	kW	0.75×3	0.75×3
ган	Air Flow Rate	m³/min	180+210+210	180+210+210
	Drive		Direct Drive	Direct Drive
	Liquid Pipe	mm	φ22.2 (Brazing Connection)	φ22.2 (Brazing Connection)
Connecting Pipes	Gas Pipe	mm	φ54.1 (Brazing Connection)	φ54.1 (Brazing Connection)
poo	Oil Equalizing Pipe	mm	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)
Machine Weig	ght	kg	235+290+333	235+331+333
Safety Device	es		High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs	High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs
Defrost Metho	od		Deicer	Deicer
Capacity Con	trol	%	4~100	4~100
	Refrigerant Name		R22	R22
Refrigerant	Charge	kg	13.9+15.6+18.6	13.9+17.1+18.6
Control			Electronic Expansion Valve	Electronic Expansion Valve
Refrigerator			SUNISO 4GSDID-K	SUNISO 4GSDID-K
Oil	Charge Volume	L	(1.9+1.6)+(1.9+1.6)+(1.9+1.6+1.6)	(1.9+1.6)+(1.9+1.6+1.6)+(1.9+1.6+1.6)
Standard Acc	essories		Installation Manual, Operation Manual, Connection Pipes, Clamps	Installation Manual, Operation Manual, Connection Pipes, Clamps
Drawing No.		YL(E)	4D038978, 4D038979, 4D038981	4D038978, 4D038980, 4D038981
Diawing INO.		TL(E)	4D038984, 4D038985, 4D038987	4D038984, 4D038986, 4D038987

Notes:

- $\bigstar 1$ Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- ★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- $\bigstar 3$ Indoor temp. : 20°CDB / outdoor temp. : 7°CDB, 6°CWB / Equivalent piping length : 7.5m, level difference : 0m.

Model Name (Combination Unit)			RXY42MYL(E) RXY42MTL(E)	RXY44MYL(E) RXY44MTL(E)
Model Name (Independent Unit)			RXY10MYL(E)+RXY16MYL(E)+RXY16MYL(E) RXY10MTL(E)+RXY16MTL(E)+RXY16MTL(E)	RXY12MYL(E)+RXY16MYL(E)+RXY16MYL(E) RXY12MTL(E)+RXY16MTL(E)+RXY16MTL(E)
		kcal / h	105,000	110,000
★1 Cooling C	apacity (19.5°CWB)	Btu / h	415,000	434,000
		kW	122	127
★2 Cooling C	apacity (19.0°CWB)	kW	118	124
		kcal / h	107,000	110,000
★3 Heating C	apacity	Btu / h	416,000	426,000
		kW	122	125
Casing Color		YL, TL	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)
Casing Color		YLE, TLE	Light Camel (2.5Y6.5/1.5)	Light Camel (2.5Y6.5/1.5)
Dimensions: (H×W×D)	mm	(1600×930×765)+(1600×1240×765)+(1600×1240×765)	(1600×1240×765)+(1600×1240×765)+(1600×1240×765)
Heat Exchang	ger		Cross Fin Coil	Cross Fin Coil
	Туре		Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type
	Piston Displacement	m³/h	(19.36+14.68)+(19.36+14.68+14.68)×2	(19.36+14.68)+(19.36+14.68+14.68)×2
Comp.	Number of Revolutions	r.p.m	(6480, 2900)+(6480, 2900×2)×2	(6480, 2900)+(6480, 2900×2)×2
Comp.	Motor Output×Number of Units	kW	(2.75+4.5)+(3.0+4.5+4.5)×2	(4.2+4.5)+(3.0+4.5+4.5)×2
	Starting Method		Direct on Line	Direct on Line
	Туре		Propeller Fan	Propeller Fan
Fan	Motor Output	kW	0.75×3	0.75×3
ган	Air Flow Rate	m³/min	180+210+210	210+210+210
	Drive		Direct Drive	Direct Drive
	Liquid Pipe	mm	φ22.2 (Brazing Connection)	φ22.2 (Brazing Connection)
Connecting Pipes	Gas Pipe	mm	φ54.1 (Brazing Connection)	φ54.1 (Brazing Connection)
poo	Oil Equalizing Pipe	mm	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)
Machine Wei	ght	kg	235+333+333	290+333+333
Safety Device	es		High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs	High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs
Defrost Metho	od		Deicer	Deicer
Capacity Con	trol	%	4~100	4~100
	Refrigerant Name		R22	R22
Refrigerant	Charge	kg	13.9+18.6+18.6	15.6+18.6+18.6
Control			Electronic Expansion Valve	Electronic Expansion Valve
Refrigerator			SUNISO 4GSDID-K	SUNISO 4GSDID-K
Oil	Charge Volume	L	(1.9+1.6)+(1.9+1.6+1.6)+(1.9+1.6+1.6)	(1.9+1.6)+(1.9+1.6+1.6)+(1.9+1.6+1.6)
Standard Acc	essories		Installation Manual, Operation Manual, Connection Pipes, Clamps	Installation Manual, Operation Manual, Connection Pipes, Clamps
Drawing No.		YL(E)	4D038978, 4D038981	4D038979, 4D038981
Diawing INO.		TL(E)	4D038984, 4D038987	4D038985, 4D068987

Notes:

- $\bigstar 1$ Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- $\star 2$ Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- $\bigstar 3$ Indoor temp. : 20°CDB / outdoor temp. : 7°CDB, 6°CWB / Equivalent piping length : 7.5m, level difference : 0m.

Model Name (Independent Unit)	Model Name (Combination Unit)			RXY46MYL(E) RXY46MTL(E)	RXY48MYL(E) RXY48MTL(E)
#1 Cooling Capacity (19.0°CWB) #W 134 139 #SW 139 135 #Cooling Capacity (19.0°CWB) #W 139 135 #Cooling Capacity (19.0°CWB) #W 130 135 #Cooling Capacity (19.0°CWB) #W 130 135 #Cooling Capacity (19.0°CWB) #W 150,000 120,000 #W 150,000 462,000 #W 153 135 #W 154 Inch Capacity (19.0°CWB) #W 152 135 #W 153 135 #W 153 135 #W 154 Inch Capacity (19.0°CWB) #W 152 135 #W 153 135 #W 153 135 #W 154 Inch Capacity (19.0°CWB) #W 152 151 #W 154 Inch Capacity (19.0°CWB) #W 154 Inch Capacity (19.0°CWB) #W 155 Inch Capacity (19.0°CWB) #W 156 Inch Capacity (19.0°CWB) #W 157 Inch Capacity (19.0°CWB) #W 158 Inch Capacity (19.0°CWB)	Model Name (Independent Unit)			RXY14MYL(E)+RXY16MYL(E)+RXY16MYL(E) RXY14MTL(E)+RXY16MTL(E)+RXY16MTL(E)	
MW	kcal / h		kcal / h	116,000	120,000
**2 Cooling Capacity (19.0°CWB) KW	★1 Cooling C	apacity (19.5°CWB)	Btu / h	457,000	474,000
Real Heating Capacity			kW	134	139
# Heating Capacity Bitu / h	★2 Cooling C	apacity (19.0°CWB)	kW	130	135
KW			kcal / h	116,000	120,000
VI_, TL	★3 Heating C	apacity	Btu / h	450,000	462,000
VIE. TLE			kW	132	135
Yes Light Camel (2.5Y6.5V1.5) Light Camel (2.5Y6.5V1.5) Light Camel (2.5Y6.5V1.5)	0 : 0 :		YL, TL	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)
Heat Exchanger	Casing Color		YLE, TLE	Light Camel (2.5Y6.5/1.5)	Light Camel (2.5Y6.5/1.5)
Type	Dimensions: (H×W×D)	mm	(1600×1240×765)+(1600×1240×765)+(1600×1240×765)	(1600×1240×765)+(1600×1240×765)+(1600×1240×765)
Piston Displacement m³/h (19.36+14.68)+3	Heat Exchang	ger	1	Cross Fin Coil	Cross Fin Coil
Number of Revolutions r.p.m (6480, 2900x2)x3 (6480, 2900x2)x3 (6480, 2900x2)x3		Туре		Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type
Motor Output-Number kW (2.0+4.5+4.5)×2 (3.0+4.5+4.5)×3 (3.0+4.5+4.5)×3		Piston Displacement	m³/h	(19.36+14.68+14.68)×3	(19.36+14.68+14.68)×3
Motor Output-Number kW (2.0+4.5+4.5)×2 (3.0+4.5+4.5)×3 (3.0+4.5+4.5)×3	Comp	Number of Revolutions	r.p.m	(6480, 2900×2)×3	(6480, 2900×2)×3
Type	Comp.		i :	(2.0+4.5+4.5)+(3.0+4.5+4.5)×2	, , ,
Type		Starting Method		Direct on Line	Direct on Line
Air Flow Rate				Propeller Fan	Propeller Fan
Air Flow Rate	_	Motor Output	kW	0.75×3	0.75×3
Liquid Pipe mm \$22.2 (Brazing Connection) \$22.2 (Brazing Connection)	Fan	Air Flow Rate	m³/min	210+210+210	210+210+210
Connecting Pipes Gas Pipe mm				Direct Drive	Direct Drive
Pipes Oil Equalizing Pipe mm		Liquid Pipe	mm	φ22.2 (Brazing Connection)	φ22.2 (Brazing Connection)
Machine Weight kg 331+333+333 333+333+333 Safety Devices High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Eusible Plugs Defrost Method Deicer Deicer Capacity Control % 3~100 3~100 Refrigerant Name R22 R22 Charge kg 17.1+18.6+18.6 18.6+18.6+18.6 Control Electronic Expansion Valve Electronic Expansion Valve Refrigerator Oil Charge Volume L (1.9+1.6+1.6)+(1.9+1.6+1.6) (1.9+1.6+1.6)+(1.9+1.6+1.6)+(1.9+1.6+1.6) Standard Accessories Installation Manual, Operation Manual, Connection Pipes, Clamps Prawing No		Gas Pipe	mm	φ54.1 (Brazing Connection)	φ54.1 (Brazing Connection)
High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Pusition of Play, Inverter Overload Protector, Pusition Play Inverter Over	ripes	Oil Equalizing Pipe	mm	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)
High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Current	Machine Weig	ght	kg	331+333+333	333+333+333
Capacity Control % 3~100 3~100 Refrigerant Pare Refrigerant Name R22 R22 Refrigerant Control kg 17.1+18.6+18.6 18.6+18.6+18.6 Control Electronic Expansion Valve Electronic Expansion Valve Refrigerator Oil SUNISO 4GSDID-K SUNISO 4GSDID-K Charge Volume L (1.9+1.6+1.6)+(1.9+1.6+1.6) (1.9+1.6+1.6)+(1.9+1.6+1.6)+(1.9+1.6+1.6) Standard Accessories Installation Manual, Operation Manual, Connection Pipes, Clamps Installation Manual, Operation	Safety Device	es	. -	Current Relay, Inverter Overload Protector,	Current Relay, Inverter Overload Protector,
Refrigerant Name R22 R22	Defrost Metho	od		Deicer	Deicer
Refrigerant Charge kg 17.1+18.6+18.6 18.6+18.6+18.6+18.6 Control Electronic Expansion Valve Electronic Expansion Valve Refrigerator Oil Charge Volume L (1.9+1.6+1.6)+(1.9+1.6+1.6) (1.9+1.6+1.6)+(1.9+1.6+1.6)+(1.9+1.6+1.6) Standard Accessories Installation Manual, Operation Manual, Connection Pipes, Clamps Installation Manual, Operation Manua	Capacity Con	trol	%	3~100	3~100
Control Electronic Expansion Valve Electronic Expansion Valve Refrigerator Oil Charge Volume L (1.9+1.6+1.6)+(1.9+1.6+1.6) (1.9+1.6+1.6)+(1.9+1.6+1.6)+(1.9+1.6+1.6) Standard Accessories Installation Manual, Operation Manual, Connection Pipes, Clamps YL(E) 4D038980, 4D038981 Electronic Expansion Valve Electronic Expansion Valve SUNISO 4GSDID-K (1.9+1.6+1.6)+(1.9+1.6+1.6)+(1.9+1.6+1.6) (1.9+1.6+1.6)+(1.9+1.6+1.6)+(1.9+1.6+1.6) (Installation Manual, Operation Manual, Op		Refrigerant Name		R22	R22
SUNISO 4GSDID-K SUNISO 4GSDID-K	Refrigerant	Charge	kg	17.1+18.6+18.6	18.6+18.6+18.6
Charge Volume L (1.9+1.6+1.6)+(1.9+1.6+1.6) (1.9+1.6+1.6)+(1.9+1.6+1.6) Standard Accessories Installation Manual, Operation Manual, Connection Pipes, Clamps Installation Manual, Operation Manual		Control		Electronic Expansion Valve	Electronic Expansion Valve
Oil Charge Volume L (1.9+1.6+1.6)+(1.9+1.6+1.6) (1.9+1.6+1.6)+(1.9+1.6+1.6)+(1.9+1.6+1.6) Standard Accessories Installation Manual, Operation Manual, Connection Pipes, Clamps Installation Manual, Operation Manua	Refrigerator			SUNISO 4GSDID-K	SUNISO 4GSDID-K
Clamps C		Charge Volume	L	(1.9+1.6+1.6)+(1.9+1.6+1.6)+(1.9+1.6+1.6)	(1.9+1.6+1.6)+(1.9+1.6+1.6)+(1.9+1.6+1.6)
Drawing No.	Standard Acc	essories	•		
TL(E) 4D038986, 4D038987 4D038987	Drawing No.		YL(E)	4D038980, 4D038981	4D038981
	Diawing NO.		TL(E)	4D038986, 4D038987	4D038987

Notes:

- $\bigstar 1$ Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- ★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- $\bigstar 3$ Indoor temp. : 20°CDB / outdoor temp. : 7°CDB, 6°CWB / Equivalent piping length : 7.5m, level difference : 0m.

1.1.3 Cooling Only 50Hz <RX-M>

Model Name			RX5MY1(E)	RX8MY1(E)
kcal / h		kcal / h	12,500	22,400
3 - 1 - 7 (7		Btu / h	49,200	88,800
		kW	14.4	26.0
★2 Cooling C	apacity (19.0°CWB)	kW	14.0	25.2
Casing Color		Y1	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)
Casing Color		Y1E	Light Camel (2.5Y6.5/1.5)	Light Camel (2.5Y6.5/1.5)
Dimensions: (H×W×D)	mm	1600×635×765	1600×930×765
Heat Exchang	ger		Cross Fin Coil	Cross Fin Coil
	Туре		Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type
	Piston Displacement	m³/h	19.36	19.36+14.68
Comp.	Number of Revolutions	r.p.m	6480	6480, 2900
оср.	Motor Output×Number of Units	kW	3.5x1	(1.2+4.5)×1
	Starting Method		Direct on Line	Direct on Line
	Туре		Propeller Fan	Propeller Fan
Fan	Motor Output	kW	0.35×1	0.75×1
ran	Air Flow Rate	m³/min	75	175
	Drive		Direct Drive	Direct Drive
	Liquid Pipe	mm	φ9.5 (Flare Connection)	φ12.7 (Brazing Connection)
Connecting Pipes	Gas Pipe	mm	φ19.1 (Brazing Connection)	φ28.6 (Brazing Connection)
	Oil Equalizing Pipe	mm	_	_
Machine Weig	ght	kg		
Safety Device	es		High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs	High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs
Capacity Con	trol	%	24~100	14~100
	Refrigerant Name		R22	R22
Refrigerant	Charge	kg	8.5	13.1
	Control		Electronic Expansion Valve	Electronic Expansion Valve
Refrigerator Oil			SUNISO 4GSDID-K	SUNISO 4GSDID-K
Oil	Charge Volume	L	1.2	1.9+1.6
Standard Aco	essories		Installation Manual, Operation Manual, Connection Pipes, Clamps	Installation Manual, Operation Manual, Connection Pipes, Clamps
Drawing No.			4D041534	4D039036

Notes:

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- $\bigstar 1$ Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- $\star 2$ Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.

Model Name			RX10MY1(E)	RX12MY1(E)
★1 Cooling Capacity (19.5°CWB) kcal / h Btu / h kW		kcal / h	25,000	30,000
		Btu / h	98,700	118,000
		kW	28.9	34.5
★2 Cooling Ca	apacity (19.0°CWB)	kW	28.0	33.5
Casing Color		Y1	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)
Casing Color		Y1E	Light Camel (2.5Y6.5/1.5)	Light Camel (2.5Y6.5/1.5)
Dimensions: (I	H×W×D)	mm	1600×930×765	1600×1240×765
Heat Exchang	er		Cross Fin Coil	Cross Fin Coil
	Туре		Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type
	Piston Displacement	m³/h	19.36+14.68	19.36+14.68
Comp.	Number of Revolutions	r.p.m	6480, 2900	6480, 2900
озр.	Motor Output×Number of Units	kW	(2.75+4.5)×1	(4.2+4.5)×1
	Starting Method		Direct on Line	Direct on Line
	Туре		Propeller Fan	Propeller Fan
Fan	Motor Output	kW	0.75×1	0.75×1
ran	Air Flow Rate	m³/min	180	210
	Drive		Direct Drive	Direct Drive
	Liquid Pipe	mm	φ12.7 (Brazing Connection)	φ15.9 (Brazing Connection)
Connecting Pipes	Gas Pipe	mm	φ28.6 (Brazing Connection)	φ34.9 (Brazing Connection)
poo	Oil Equalizing Pipe	mm	_	_
Machine Weig	pht	kg		
Safety Devices	s		High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs	High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs
Capacity Cont	trol	%	14~100	14~100
	Refrigerant Name		R22	R22
Refrigerant	Charge	kg	13.9	15.6
	Control		Electronic Expansion Valve	Electronic Expansion Valve
Refrigerator			SUNISO 4GSDID-K	SUNISO 4GSDID-K
Oil	Charge Volume	L	1.9+1.6	1.9+1.6
Standard Acce	essories		Installation Manual, Operation Manual, Connection Pipes, Clamps	Installation Manual, Operation Manual, Connection Pipes, Clamps
Drawing No.			4D039037	4D039038

Notes:

- ★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- *2 Indoor temp.: 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.

★1 Cooling Capacity (19.5°CV ★2 Cooling Capacity (19.0°CV Casing Color Dimensions: (H×W×D) Heat Exchanger Type Piston Displace Number of Re Motor Outputs of Units Starting Metho Type Motor Output Air Flow Rate	kW	35,500 141,000 41.2 40.0 Ivory White (5Y7.5/1) Light Camel (2.5Y6.5/1.5)	40,000 158,000 46.4 45.0 Ivory White (5Y7.5/1)
*2 Cooling Capacity (19.0°CN Casing Color Dimensions: (HxWxD) Heat Exchanger Type Piston Displace Number of Re Motor Outputs of Units Starting Methor Type Motor Output	kW	41.2 40.0 Ivory White (5Y7.5/1)	46.4 45.0
Casing Color Dimensions: (HxWxD) Heat Exchanger Type Piston Displace Number of Re Motor Outputs of Units Starting Methor Type Motor Output Motor Output	WB) kW Y1 Y1E	40.0 Ivory White (5Y7.5/1)	45.0
Casing Color Dimensions: (HxWxD) Heat Exchanger Type Piston Displace Number of Re Motor Outputs of Units Starting Methor Type Motor Output Motor Output	Y1 Y1E	Ivory White (5Y7.5/1)	
Dimensions: (HxWxD) Heat Exchanger Type Piston Displace Number of Re Motor Outputs of Units Starting Methot Type Motor Output Motor Output	Y1E		Ivon/White (5V7.5/1)
Dimensions: (HxWxD) Heat Exchanger Type Piston Displace Number of Re Motor Outputs of Units Starting Methot Type Motor Output Motor Output		Light Camel (2.5Y6.5/1.5)	IVOLY VVIIILE (5.17.5/1)
Comp. Type Piston Displace Number of Re Motor Outputs of Units Starting Methor Type Motor Output Motor Output	mm	3 \ /	Light Camel (2.5Y6.5/1.5)
Comp. Type Piston Displace Number of Re Motor Outputs of Units Starting Methor Type Motor Output		1600×1240×765	1600×1240×765
Comp. Piston Displac Number of Re Motor Outputs of Units Starting Metho Type Motor Output		Cross Fin Coil	Cross Fin Coil
Comp. Number of Re Motor Outputs of Units Starting Metho Type Motor Output		Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type
Motor Output of Units Starting Metho Type Motor Output	ement m³/h	19.36+14.68+14.68	19.36+14.68+14.68
Motor Outputs of Units Starting Methor Type Motor Output	volutions r.p.m	6480, 2900×2	6480, 2900×2
Type Motor Output	Number kW	(2.0+4.5+4.5)×1	(3.0+4.5+4.5)×1
Motor Output	od	Direct on Line	Direct on Line
Fan '		Propeller Fan	Propeller Fan
Air Flow Rate	kW	0.75×1	0.75×1
	m³/mir	210	210
Drive		Direct Drive	Direct Drive
Liquid Pipe	mm	φ15.9 (Brazing Connection)	φ15.9 (Brazing Connection)
Connecting Pipes Gas Pipe	mm	φ34.9 (Brazing Connection)	φ34.9 (Brazing Connection)
Oil Equalizing	Pipe mm	_	_
Machine Weight	kg		
Safety Devices		High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs	High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs
Capacity Control	%	10~100	10~100
Refrigerant Na	ame	R22	R22
Refrigerant Charge	kg	17.1	18.6
Control		Electronic Expansion Valve	Electronic Expansion Valve
Refrigerator		SUNISO 4GSDID-K	SUNISO 4GSDID-K
Oil Charge Volum	ne L	1.9+1.6+1.6	1.9+1.6+1.6
Standard Accessories		Installation Manual, Operation Manual, Connection Pipes,	Installation Manual, Operation Manual, Connection Pipes,
Drawing No.		Clamps	Clamps

Notes:

- ★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
- *2 Indoor temp.: 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.

Model Name (Combination Unit)			RX18MY1(E)	RX20MY1(E)
Model Name (Independent Unit)			RX8MY1(E)+RX10MY1(E)	RX10MY1(E)+RX10MY1(E)
kcal / h			47,400	50,000
★1 Cooling Capacity (19.5°CWB) Btu / h kW		Btu / h	188,000	197,000
		kW	54.8	57.7
★2 Cooling C	apacity (19.0°CWB)	kW	53.2	56.0
Casing Color		Y1	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)
Casing Color		Y1E	Light Camel (2.5Y6.5/1.5)	Light Camel (2.5Y6.5/1.5)
Dimensions: (H×W×D)	mm	(1600×930×765)+(1600×930×765)	(1600×930×765)+(1600×930×765)
Heat Exchanç	ger		Cross Fin Coil	Cross Fin Coil
	Туре		Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type
	Piston Displacement	m³/h	(19.36+14.68)×2	(19.36+14.68)×2
Comp.	Number of Revolutions	r.p.m	(6480, 2900)×2	(6480, 2900)×2
Comp.	Motor Output×Number of Units	kW	(1.2+4.5)+(2.75+4.5)	(2.75+4.5)×2
	Starting Method		Direct on Line	Direct on Line
	Туре		Propeller Fan	Propeller Fan
Fan	Motor Output	kW	0.75×2	0.75×2
ran	Air Flow Rate	m³/min	175+180	180+180
	Drive		Direct Drive	Direct Drive
_	Liquid Pipe	mm	φ19.1 (Brazing Connection)	φ19.1 (Brazing Connection)
Connecting Pipes	Gas Pipe	mm	φ34.9 (Brazing Connection)	φ34.9 (Brazing Connection)
poo	Oil Equalizing Pipe	mm	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)
Machine Weig	ght	kg		
Safety Device	es		High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs	High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs
Capacity Con	trol	%	7~100	7~100
	Refrigerant Name	_	R22	R22
Refrigerant	Charge	kg	13.1+13.9	13.9+13.9
	Control		Electronic Expansion Valve	Electronic Expansion Valve
Refrigerator			SUNISO 4GSDID-K	SUNISO 4GSDID-K
Oil	Charge Volume	L	(1.9+1.6)+(1.9+1.6)	(1.9+1.6)+(1.9+1.6)
Standard Acc	essories		Installation Manual, Operation Manual, Connection Pipes, Clamps	Installation Manual, Operation Manual, Connection Pipes, Clamps
Drawing No.			4D039036, 4D039037	4D039037

Notes:

- ★1 Indoor temp.: 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.

Model Name (Combination Unit)			RX22MY1(E)	RX24MY1(E)
Model Name (Independent Unit)		RX10MY1(E)+RX12MY1(E)		RX10MY1(E)+RX14MY1(E)
kcal / h			55,000	60,500
★1 Cooling Capacity (19.5°CWB) Btu / h kW		Btu / h	217,000	240,000
		kW	63.4	70.1
★2 Cooling Ca	apacity (19.0°CWB)	kW	61.5	68.0
Casing Color		Y1	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)
Casing Color		Y1E	Light Camel (2.5Y6.5/1.5)	Light Camel (2.5Y6.5/1.5)
Dimensions: (H×W×D)	mm	(1600×930×765)+(1600×1240×765)	(1600×930×765)+(1600×1240×765)
Heat Exchang	er		Cross Fin Coil	Cross Fin Coil
	Туре		Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type
	Piston Displacement	m³/h	(19.36+14.68)×2	(19.36+14.68)+(19.36+14.68+14.68)
Comp.	Number of Revolutions	r.p.m	(6480, 2900)×2	(6480, 2900)+(6480, 2900×2)
- Сетр	Motor Output×Number of Units	kW	(2.75+4.5)+(4.2+4.5)	(2.75+4.5)+(2.0+4.5+4.5)
	Starting Method		Direct on Line	Direct on Line
	Туре		Propeller Fan	Propeller Fan
Fan	Motor Output	kW	0.75×2	0.75×2
Ган	Air Flow Rate	m³/min	180+210	180+210
	Drive		Direct Drive	Direct Drive
	Liquid Pipe	mm	φ19.1 (Brazing Connection)	φ19.1 (Brazing Connection)
Connecting Pipes	Gas Pipe	mm	φ34.9 (Brazing Connection)	φ41.3 (Brazing Connection)
P	Oil Equalizing Pipe	mm	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)
Machine Weig	ıht	kg		
Safety Device	s		High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs	High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs
Capacity Cont	trol	%	7~100	6~100
	Refrigerant Name		R22	R22
Refrigerant	Charge	kg	13.9+15.6	13.9+17.1
	Control		Electronic Expansion Valve	Electronic Expansion Valve
Refrigerator			SUNISO 4GSDID-K	SUNISO 4GSDID-K
Oil	Charge Volume	L	(1.9+1.6)+(1.9+1.6)	(1.9+1.6)+(1.9+1.6+1.6)
Standard Acce	essories		Installation Manual, Operation Manual, Connection Pipes, Clamps	Installation Manual, Operation Manual, Connection Pipes, Clamps
Drawing No.			4D039037, 4D039038	4D039037, 4D039039

Notes:

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 $\bigstar 1$ Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.

★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.

Model Name (Combination Unit)			RX26MY1(E)	RX28MY1(E)
Model Name (Independent Unit)			RX10MY1(E)+RX16MY1(E)	RX12MY1(E)+RX16MY1(E)
★1 Cooling Capacity (19.5°CWB) kcal / h Btu / h kW		kcal / h	65,000	70,000
		Btu / h	257,000	276,000
		kW	75.3	80.9
★2 Cooling C	apacity (19.0°CWB)	kW	73.0	78.5
Casing Color		Y1	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)
Casing Color		Y1E	Light Camel (2.5Y6.5/1.5)	Light Camel (2.5Y6.5/1.5)
Dimensions: (H×W×D)	mm	(1600×930×765)+(1600×1240×765)	(1600×1240×765)+(1600×1240×765)
Heat Exchang	jer		Cross Fin Coil	Cross Fin Coil
	Туре		Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type
	Piston Displacement	m³/h	(19.36+14.68)+(19.36+14.68+14.68)	(19.36+14.68)+(19.36+14.68+14.68)
Comp.	Number of Revolutions	r.p.m	(6480, 2900)+(6480, 2900×2)	(6480, 2900)+(6480, 2900×2)
остъ.	Motor Output×Number of Units	kW	(2.75+4.5)+(3.0+4.5+4.5)	(4.2+4.5)+(3.0+4.5+4.5)
	Starting Method		Direct on Line	Direct on Line
	Туре		Propeller Fan	Propeller Fan
Fan	Motor Output	kW	0.75×2	0.75×2
ran	Air Flow Rate	m³/min	180+210	210+210
	Drive		Direct Drive	Direct Drive
	Liquid Pipe	mm	φ22.2 (Brazing Connection)	φ22.2 (Brazing Connection)
Connecting Pipes	Gas Pipe	mm	φ41.3 (Brazing Connection)	φ41.3 (Brazing Connection)
poo	Oil Equalizing Pipe	mm	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)
Machine Weig	ght	kg		
Safety Device	s		High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs	High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs
Capacity Con	trol	%	6~100	6~100
	Refrigerant Name		R22	R22
Refrigerant	Charge	kg	13.9+18.6	15.6+18.6
	Control		Electronic Expansion Valve	Electronic Expansion Valve
Refrigerator	<u> </u>		SUNISO 4GSDID-K	SUNISO 4GSDID-K
Oil	Charge Volume	L	(1.9+1.6)+(1.9+1.6+1.6)	(1.9+1.6)+(1.9+1.6+1.6)
Standard Acc	essories		Installation Manual, Operation Manual, Connection Pipes, Clamps	Installation Manual, Operation Manual, Connection Pipes, Clamps
Drawing No.			4D039037, 4D039040	4D039038, 4D039040

Notes:

 $\bigstar 1$ Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.

★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.

Model Name (Combination Unit) Model Name (Independent Unit)			RX30MY1(E)	RX32MY1(E) RX16MY1(E)+RX16MY1(E)
			RX14MY1(E)+RX16MY1(E)	
kcal / h			75,500	80,000
★1 Cooling Capacity (19.5°CWB) Btu / h kW		Btu / h	299,000	316,000
		kW	87.6	92.8
★2 Cooling C	apacity (19.0°CWB)	kW	85.0	90.0
Casing Calar		Y1	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)
Casing Color		Y1E	Light Camel (2.5Y6.5/1.5)	Light Camel (2.5Y6.5/1.5)
Dimensions: (H×W×D)	mm	(1600×1240×765)+(1600×1240×765)	(1600×1240×765)+(1600×1240×765)
Heat Exchang	ger		Cross Fin Coil	Cross Fin Coil
	Туре		Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type
	Piston Displacement	m³/h	(19.36+14.68+14.68)×2	(19.36+14.68+14.68)×2
Comp.	Number of Revolutions	r.p.m	(6480, 2900×2)×2	(6480, 2900×2)×2
Comp.	Motor Output×Number of Units	kW	(2.0+4.5+4.5)+(3.0+4.5+4.5)	(3.0+4.5+4.5)+(3.0+4.5+4.5)
	Starting Method		Direct on Line	Direct on Line
	Type		Propeller Fan	Propeller Fan
Гол	Motor Output	kW	0.75×2	0.75×2
Fan	Air Flow Rate	m³/min	210×2	210×2
	Drive		Direct Drive	Direct Drive
	Liquid Pipe	mm	φ22.2 (Brazing Connection)	φ22.2 (Brazing Connection)
Connecting Pipes	Gas Pipe	mm	φ41.3 (Brazing Connection)	φ41.3 (Brazing Connection)
pee	Oil Equalizing Pipe	mm	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)
Machine Weig	ght	kg		
Safety Device	Safety Devices		High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs	High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs
Capacity Con	trol	%	5~100	5~100
	Refrigerant Name	_	R22	R22
Refrigerant	Charge	kg	17.1+18.6	18.6+18.6
Control			Electronic Expansion Valve	Electronic Expansion Valve
Refrigerator			SUNISO 4GSDID-K	SUNISO 4GSDID-K
Oil	Charge Volume	L	(1.9+1.6+1.6)+(1.9+1.6+1.6)	(1.9+1.6+1.6)+(1.9+1.6+1.6)
Standard Aco	essories		Installation Manual, Operation Manual, Connection Pipes, Clamps	Installation Manual, Operation Manual, Connection Pipes, Clamps
Drawing No.		-	4D039039, 4D039040	4D039040

Notes:

 $\bigstar 1$ Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.

★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.

Model Name (Combination Unit)			RX34MY1(E)	RX36MY1(E)
Model Name (Independent Unit)			RX10MY1(E)+RX10MY1(E)+RX14MY1(E)	RX10MY1(E)+RX10MY1(E)+RX16MY1(E)
kcal / h			85,500	90,000
★1 Cooling Capacity (19.5°CWB) Btu / h kW		Btu / h	338,000	355,000
		kW	99.0	104
★2 Cooling Ca	apacity (19.0°CWB)	kW	96.0	101
Casing Color		Y1	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)
Casing Color		Y1E	Light Camel (2.5Y6.5/1.5)	Light Camel (2.5Y6.5/1.5)
Dimensions: (I	H×W×D)	mm	(1600×930×765)+(1600×930×765)+(1600×1240×765)	(1600×930×765)+(1600×930×765)+(1600×1240×765)
Heat Exchang	er		Cross Fin Coil	Cross Fin Coil
	Туре		Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type
	Piston Displacement	m³/h	(19.36+14.68)×2+(19.36+14.68+14.68)	(19.36+14.68)×2+(19.36+14.68+14.68)
Comp.	Number of Revolutions	r.p.m	(6480, 2900)×2+(6480, 2900×2)	(6480, 2900)×2+(6480, 2900×2)
ор.	Motor Output×Number of Units	kW	(2.75+4.5)+(2.75+4.5)+(2.0+4.5+4.5)	(2.75+4.5)+(2.75+4.5)+(3.0+4.5+4.5)
	Starting Method		Direct on Line	Direct on Line
	Туре		Propeller Fan	Propeller Fan
Fan	Motor Output	kW	0.75×3	0.75×3
Ган	Air Flow Rate	m³/min	180+180+210	180+180+210
	Drive		Direct Drive	Direct Drive
	Liquid Pipe	mm	φ22.2 (Brazing Connection)	φ22.2 (Brazing Connection)
Connecting Pipes	Gas Pipe	mm	φ41.3 (Brazing Connection)	φ54.1 (Brazing Connection)
	Oil Equalizing Pipe	mm	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)
Machine Weig	ıht	kg		
Safety Devices	s		High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs	High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs
Capacity Cont	trol	%	4~100	4~100
	Refrigerant Name	_	R22	R22
Refrigerant	Charge	kg	13.9+13.9+17.1	13.9+13.9+18.6
	Control		Electronic Expansion Valve	Electronic Expansion Valve
Refrigerator		•	SUNISO 4GSDID-K	SUNISO 4GSDID-K
Oil	Charge Volume	L	(1.9+1.6)+(1.9+1.6)+(1.9+1.6+1.6)	(1.9+1.6)+(1.9+1.6)+(1.9+1.6+1.6)
Standard Acce	essories		Installation Manual, Operation Manual, Connection Pipes, Clamps	Installation Manual, Operation Manual, Connection Pipes, Clamps
Drawing No.			4D039037, 4D039039	4D039037, 4D039040

Notes:

 $\bigstar 1$ Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.

★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.

Model Name (Combination Unit)			RX38MY1(E)	RX40MY1(E)	
Model Name (Independent Unit)			RX10MY1(E)+RX12MY1(E)+RX16MY1(E)	RX10MY1(E)+RX14MY1(E)+RX16MY1(E)	
		kcal / h	95,000	101,000	
★1 Cooling Capacity (19.5°CWB) Btu / h kW		Btu / h	375,000	398,000	
		kW	110	116	
★2 Cooling Capacity (19.0°CWB) kW		kW	107	113	
Casing Color		Y1	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)	
Casing Color		Y1E	Light Camel (2.5Y6.5/1.5)	Light Camel (2.5Y6.5/1.5)	
Dimensions: ((H×W×D)	mm	(1600×930×765)+(1600×1240×765)+(1600×1240×765)	(1600×930×765)+(1600×1240×765)+(1600×1240×765)	
Heat Exchanç	ger		Cross Fin Coil	Cross Fin Coil	
Туре			Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type	
	Piston Displacement	m³/h	(19.36+14.68)×2+(19.36+14.68+14.68)	(19.36+14.68)+(19.36+14.68+14.68)×2	
Comp.	Number of Revolutions	r.p.m	(6480, 2900)×2+(6480, 2900×2)	(6480, 2900)+(6480, 2900×2)×2	
comp.	Motor Output×Number of Units kW		(2.75+4.5)+(4.2+4.5)+(3.0+4.5+4.5)	(2.75+4.5)+(2.0+4.5+4.5)+(3.0+4.5+4.5)	
	Starting Method		Direct on Line	Direct on Line	
	Туре		Propeller Fan	Propeller Fan	
Fan	Motor Output	kW	0.75×3	0.75×3	
Ган	Air Flow Rate	m³/min	180+210+210	180+210+210	
	Drive		Direct Drive	Direct Drive	
The state of the s		mm	φ22.2 (Brazing Connection)	φ22.2 (Brazing Connection)	
Connecting Pipes	Gas Pipe	mm	φ54.1 (Brazing Connection)	φ54.1 (Brazing Connection)	
	Oil Equalizing Pipe	mm	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)	
Machine Weight kg		kg			
Safety Devices			High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs	High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs	
Capacity Control %		%	4~100	4~100	
	Refrigerant Name		R22	R22	
Refrigerant	Charge	kg	13.9+15.6+18.6	13.9+17.1+18.6	
	Control		Electronic Expansion Valve	Electronic Expansion Valve	
Refrigerator			SUNISO 4GSDID-K	SUNISO 4GSDID-K	
Oil	Charge Volume	L	(1.9+1.6)+(1.9+1.6)+(1.9+1.6+1.6)	(1.9+1.6)+(1.9+1.6+1.6)+(1.9+1.6+1.6)	
Standard Acc	essories		Installation Manual, Operation Manual, Connection Pipes, Clamps	Installation Manual, Operation Manual, Connection Pipes, Clamps	
Drawing No.			4D039037, 4D039038, 4D039040	4D039037, 4D039039, 4D039040	

Notes:

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 $\bigstar 1$ Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.

★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.

	Model Name (Combination Unit)		RX42MY1(E)	RX44MY1(E)	
Model Name (Independent Unit)			RX10MY1(E)+RX16MY1(E)+RX16MY1(E)	RX12MY1(E)+RX16MY1(E)+RX16MY1(E)	
		kcal / h	105,000	110,000	
★1 Cooling Capacity (19.5°CWB) Btu / h kW		Btu / h	415,000	434,000	
		kW	122	127	
★2 Cooling Capacity (19.0°CWB) kW		kW	118	124	
One in a Color		Y1	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)	
Casing Color		Y1E	Light Camel (2.5Y6.5/1.5)	Light Camel (2.5Y6.5/1.5)	
Dimensions: (H	l×W×D)	mm	(1600×930×765)+(1600×1240×765)+(1600×1240×765)	(1600×1240×765)+(1600×1240×765)+(1600×1240×765)	
Heat Exchange	er		Cross Fin Coil	Cross Fin Coil	
Туре			Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type	
	Piston Displacement	m³/h	(19.36+14.68)+(19.36+14.68+14.68)×2	(19.36+14.68)+(19.36+14.68+14.68)×2	
Comp.	Number of Revolutions	r.p.m	(6480, 2900)+(6480, 2900×2)×2	(6480, 2900)+(6480, 2900×2)×2	
·	Motor Output×Number of Units	kW	(2.75+4.5)+(3.0+4.5+4.5)×2	(4.2+4.5)+(3.0+4.5+4.5)×2	
	Starting Method		Direct on Line	Direct on Line	
	Туре		Propeller Fan	Propeller Fan	
Fan	Motor Output	kW	0.75×3	0.75×3	
ran	Air Flow Rate	m³/min	180+210+210	210+210+210	
	Drive		Direct Drive	Direct Drive	
Liquid Pipe mm		mm	φ22.2 (Brazing Connection)	φ22.2 (Brazing Connection)	
Connecting Pipes	Gas Pipe	mm	φ54.1 (Brazing Connection)	φ54.1 (Brazing Connection)	
	Oil Equalizing Pipe	mm	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)	
Machine Weight kg		kg			
Safety Devices			High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs	High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs	
Capacity Control %		%	4~100	4~100	
	Refrigerant Name		R22	R22	
Refrigerant	Charge	kg	13.9+18.6+18.6	15.6+18.6+18.6	
	Control		Electronic Expansion Valve	Electronic Expansion Valve	
Refrigerator			SUNISO 4GSDID-K	SUNISO 4GSDID-K	
Oil	Charge Volume	L	(1.9+1.6)+(1.9+1.6+1.6)+(1.9+1.6+1.6)	(1.9+1.6)+(1.9+1.6+1.6)+(1.9+1.6+1.6)	
Standard Acces	ssories		Installation Manual, Operation Manual, Connection Pipes, Clamps	Installation Manual, Operation Manual, Connection Pipes, Clamps	
Drawing No.			4D039037, 4D039040	4D039038, 4D039040	

Notes:

 $\bigstar 1$ Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.

★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.

Model Name (Combination Unit)			RX46MY1(E)	RX48MY1(E)	
Model Name (Independent Unit)			RX14MY1(E)+RX16MY1(E)+RX16MY1(E)	RX16MY1(E)+RX16MY1(E)+RX16MY1(E)	
		kcal / h	116,000	120,000	
★1 Cooling Capacity (19.5°CWB) Btu / h kW		Btu / h	457,000	474,000	
		kW	134	139	
★2 Cooling C	apacity (19.0°CWB)	kW	130	135	
Y1		Y1	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)	
Casing Color		Y1E	Light Camel (2.5Y6.5/1.5)	Light Camel (2.5Y6.5/1.5)	
Dimensions: (H×W×D)	mm	(1600×1240×765)+(1600×1240×765)+(1600×1240×765)	(1600×1240×765)+(1600×1240×765)+(1600×1240×765)	
Heat Exchang	jer		Cross Fin Coil	Cross Fin Coil	
Туре			Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type	
	Piston Displacement	m³/h	(19.36+14.68+14.68)×3	(19.36+14.68+14.68)×3	
Comp.	Number of Revolutions	r.p.m	(6480, 2900×2)×3	(6480, 2900×2)×3	
Comp.	Motor Output×Number of Units kW		(2.0+4.5+4.5)+(3.0+4.5+4.5)×2	(3.0+4.5+4.5)×3	
	Starting Method		Direct on Line	Direct on Line	
	Туре		Propeller Fan	Propeller Fan	
Fon.	Motor Output	kW	0.75×3	0.75×3	
Fan	Air Flow Rate	m³/min	210+210+210	210+210+210	
	Drive		Direct Drive	Direct Drive	
		mm	φ22.2 (Brazing Connection)	φ22.2 (Brazing Connection)	
Connecting Pipes	Gas Pipe	mm	φ54.1 (Brazing Connection)	φ54.1 (Brazing Connection)	
poo	Oil Equalizing Pipe	mm	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)	
Machine Weight kg		kg			
Safety Devices			High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs	High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector, Fusible Plugs	
Capacity Con	Capacity Control %		3~100	3~100	
	Refrigerant Name	_	R22	R22	
Refrigerant	Charge	kg	17.1+18.6+18.6	18.6+18.6+	
Control			Electronic Expansion Valve	Electronic Expansion Valve	
Refrigerator			SUNISO 4GSDID-K	SUNISO 4GSDID-K	
Oil	Charge Volume	L	(1.9+1.6+1.6)+(1.9+1.6+1.6)+(1.9+1.6+1.6)	(1.9+1.6+1.6)+(1.9+1.6+1.6)+(1.9+1.6+1.6)	
Standard Aco	essories		Installation Manual, Operation Manual, Connection Pipes, Clamps	Installation Manual, Operation Manual, Connection Pipes, Clamps	
Drawing No.			4D039039, 4D039040	4D039040	

Notes:

 $\bigstar 1$ Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.

★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.

1.2 **Indoor Units**

Ceiling Mounted Cassette Type (Double-flow)

Dimensions: (H-W/WD)	Model			FXC20LVE	FXC25LVE	FXC32LVE	FXC40LVE
A2 Cooling Capacity (19.0°CWB) NW 2.2 2.8 3.6 4.5			kcal/h	2,000	2,500	3,150	4,000
#2 Cooling Capacity (18.0°CWB) KW	★1 Cooling C	apacity (19.5°CWB)	Btu/h	7,900	9,900	12,500	15,900
	kW		2.3	2.9	3.7	4.7	
#3 Heating Capacity Bituh 8,500 10,900 13,600 17,000 kW 2.5 3.2 4.0 5.0 Calvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate	★2 Cooling C	apacity (19.0°CWB)	kW	2.2	2.8	3.6	4.5
Standard Accessories			kcal/h	2,200	2,800	3,400	4,300
Casing Galvanized Steel Plate Galvanized	★3 Heating C	apacity	Btu/h	8,500	10,900	13,600	17,000
Dirmersions: (H-WW-D)			kW	2.5	3.2	4.0	5.0
Conj Cross Face Area m² 2x10x1.5	Casing		•	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate
Face Area m² 2x0.100 2x0.100 2x0.100 2x0.100 2x0.145	Dimensions:	H×W×D)	mm	305×780×600	305×780×600	305×780×600	305×995×600
Model	Coil (Cross	Rows×Stages×Fin Pitch	mm	2×10×1.5	2×10×1.5	2×10×1.5	2×10×1.5
Type	Fin Coil)	Face Area	m²	2×0.100	2×0.100	2×0.100	2×0.145
Motor Output × Number W		Model		D17K2AA1	D17K2AB1	D17K2AB1	2D17K1AA1
Air Flow Rate (H/L)		Туре		Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
Air Flow Rate (H/L) Drive Direct Drive Discover Dri	Fan		W	10×1	15×1	15×1	20×1
Cfm 247/177 318/230 318/230 424/318 Drive Direct Drive Direct Drive Direct Drive Temperature Control Microprocessor Thermostat for Cooling and Heating Microprocessor Thermostat for Cooling and Heati		Air Flow Poto (H/L)	m³/min	7/5	9/6.5	9/6.5	12/9
Temperature Control Microprocessor Thermostat for Cooling and Heating Sound Absorbing Thermal Insulation Material Glass Wool/Urethane Foam Glass W		All Flow hate (H/L)	cfm	247/177	318/230	318/230	424/318
for Cooling and Heating for Cooling for Medical for the Medical for for Earl Medical for for External Dia 22 for 12.7 (Flare Connection) for External Dia 22.7 (Flare Connection) for External Dia 22 for 12.7 (Flare Connection) for External Dia 22		Drive		Direct Drive	Direct Drive	Direct Drive	Direct Drive
Liquid Pipes mm	Temperature	Temperature Control		Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating
Piping Connections Gas Pipes mm \$\psi 12.7 (Flare Connection) \$\psi 12.7 (Flare Conn	Sound Absor	oing Thermal Insulation Ma	terial	Glass Wool/Urethane Foam	Glass Wool/Urethane Foam	Glass Wool/Urethane Foam	Glass Wool/Urethane Foam
Drain Pipe		Liquid Pipes	mm	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)
Drain Pipe mm (VP25 (External Dia. 32) (Internal Dia. 32) (External Dia. 32) (External Dia. 32) (Internal Dia. 26) (Internal Dia. 32) (Internal Dia. 32) (Internal Dia. 32) (Internal Dia. 26) (Internal Dia. 32 (Internal Dia. 32) (Internal Dia. 26) (Internal Dia. 32) (Internal Dia. 26) (Internal Dia. 32) (Internal Dia. 26) (Internal Dia. 32 (Internal Dia	Piping	Gas Pipes	mm	φ12.7 (Flare Connection)	φ12.7 (Flare Connection)	φ12.7 (Flare Connection)	φ12.7 (Flare Connection)
#5 Sound Level (H/L) (220V) dBA 32/27 34/28 34/28 34/29 Safety Devices Fuse, Thermal Protector for Fan Motor Fan Mo			VP25 (External Dia. 32 (Internal Dia. 25)	/ External Dia. 32 \	/ External Dia. 32 \	/ External Dia. 32 \	
Fuse, Thermal Protector for Fan Motor Fuse, Thermal Protector for Substantor Valve Fuse, Thermal Protector for Earling Pace, K or M Series R407C; K or L Se	Machine Wei	ght	kg	26	26	26	31
Fan Motor Manual, Paper Pattern for Installation Manual, Pap	★5 Sound Le	vel (H/L) (220V)	dBA	32/27	34/28	34/28	34/29
Connectable outdoor unit R22 ; K or M Series R407C ; K or L Series R407C ; K or L Series	Safety Devices						
Model BYBC32G-W1 BYBC32G-	Refrigerant Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	
Panel Color Decoration Panels (Option)	Connectable outdoor unit						
Dimensions: (HxWxD) mm 53x1,030x680 53x1,030x680 53x1,030x680 53x1,245x680 Air Filter Resin Net (with Mold Resistant) Resin Net (with Mold Resistant) Resin Net (with Mold Resistant) Weight kg 8 8 8 8 8 8 8.5 Operation Manual, Paper Pattern for Installation Manual, Paper Pattern for Installation Manual, Paper Pattern for Installation, Washer for Hanging Brackets, Clamp Metal, Drain Hose, Insulation for Fitting, Washer Fixing Plates, Sealing Pads, Clamps, Screws, Washers. Dimensions: (HxWxD) mm 53x1,030x680 53x1,030x680 Sax1,030x680 S3x1,245x680 Resin Net (with Mold Resistant) (with Mold Resistant) Poperation Manual, Paper Pattern for Installation, Washer for Hanging Brackets, Clamp Metal, Drain Hose, Insulation for Fitting, Washer Fixing Plates, Sealing Pads, Clamps, Screws, Washers. Operation Manual, Installation Manual, Paper Pattern for Installation, Washer for Hanging Brackets, Clamp Metal, Drain Hose, Insulation for Fitting, Washer Fixing Plates, Sealing Pads, Clamps, Screws, Washers.		Model		BYBC32G-W1	BYBC32G-W1	BYBC32G-W1	BYBC50G-W1
Panels (Option) Air Filter Resin Net (with Mold Resistant) Weight Resin Net (with Mold Resistant) Operation Manual, Installation Manual, Paper Pattern for Installation, Masher for Hanging Brackets, Clamp Metal, Drain Hose, Insulation for Fitting, Washer Fixing Plates, Sealing Pads, Clamps, Screws, Washers. Diliteristoris: (nxwxi) Resin Net (with Mold Resistant) Operation Manual, Installation Manual, Paper Pattern for Installation Manual, Paper Pattern for Installation, Washer for Hanging Brackets, Clamp Metal, Drain Hose, Insulation for Fitting, Washer Fixing Plates, Sealing Pads, Clamps, Screws, Washers. Operation Manual, Installation Manual, Paper Pattern for Installation, Washer for Hanging Brackets, Clamp Metal, Drain Hose, Insulation for Fitting, Washer Fixing Plates, Sealing Pads, Clamps, Screws, Washers. Operation Manual, Installation Manual, Paper Pattern for Installation, Washer for Hanging Brackets, Clamp Metal, Drain Hose, Insulation for Fitting, Washer Fixing Plates, Sealing Pads, Clamps, Screws, Washers. Operation Manual, Installation Manual, Paper Pattern for Installation, Washer for Hanging Brackets, Clamp Metal, Drain Hose, Insulation for Fitting, Washer Fixing Plates, Sealing Pads, Clamps, Screws, Washers. Operation Manual, Installation Manual, Installation Manual, Installation Manual, Installation Manual, Paper Pattern for Installation, Washer for Hanging Brackets, Clamp Metal, Drain Hose, Insulation for Fitting, Washer Fixing Plates, Sealing Pads, Clamps, Screws, Washers.		Panel Color		White (10Y9/0.5)	White (10Y9/0.5)	White (10Y9/0.5)	White (10Y9/0.5)
Resin Net (with Mold Resistant)	Decoration Panels (Option)	Dimensions: (HxWxD)	mm	53×1,030×680	53×1,030×680	53×1,030×680	53×1,245×680
Operation Manual, Installation Manual, Paper Pattern for Installation, Washer for Hanging Brackets, Clamp Metal, Drain Hose, Insulation for Fitting, Washer Fixing Plates, Sealing Pads, Clamps, Screws, Washers. Operation Manual, Paper Pattern for Installation Manual, Paper Pattern for Installation, Washer for Hanging Brackets, Clamp Metal, Drain Hose, Insulation for Fitting, Washer Fixing Plates, Sealing Pads, Clamps, Screws, Washers. Operation Manual, Installation Manual, Paper Pattern for Installation, Washer for Hanging Brackets, Clamp Metal, Drain Hose, Insulation for Fitting, Washer Fixing Plates, Sealing Pads, Clamps, Screws, Washers. Operation Manual, Installation Manual, Paper Pattern for Installation, Washer for Hanging Brackets, Clamp Metal, Drain Hose, Insulation for Fitting, Washer Fixing Plates, Sealing Pads, Clamps, Screws, Washers. Operation Manual, Installation Manual, Paper Pattern for Installation, Washer for Hanging Brackets, Clamp Metal, Drain Hose, Insulation for Fitting, Washer Fixing Plates, Sealing Pads, Clamps, Screws, Washers. Operation Manual, Installation Manual, Paper Pattern for Installation, Washer for Hanging Brackets, Clamp Bra		Air Filter					
Installation Manual, Paper Pattern for Installation, Manual, Paper Pattern for Installation, Masher for Hanging Standard Accessories		Weight	kg	8	8	8	8.5
Drawing No. 3D034244A	Standard Accessories		Installation Manual, Paper Pattern for Installation, Washer for Hanging Brackets, Clamp Metal, Drain Hose, Insulation for Fitting, Washer Fixing Plates, Sealing Pads,	Installation Manual, Paper Pattern for Installation, Washer for Hanging Brackets, Clamp Metal, Drain Hose, Insulation for Fitting, Washer Fixing Plates, Sealing Pads.	Installation Manual, Paper Pattern for Installation, Washer for Hanging Brackets, Clamp Metal, Drain Hose, Insulation for Fitting, Washer Fixing Plates, Sealing Pads,	Installation Manual, Paper Pattern for Installation, Washer for Hanging Brackets, Clamp Metal, Drain Hose, Insulation for Fitting, Washer Fixing Plates, Sealing Pads.	
	Drawing No.				3D03-	1244A	

Notes:

- ★1 Indoor temp.: 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★2 Indoor temp.: 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★3 Indoor temp.: 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
- Creations only
 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
 Operation sound is measured in an anechoic chamber.

Ceiling Mounted Cassette Type (Double-flow)

Model		FXC50LVE	FXC63LVE	FXC80LVE	FXC125LVE	
kcal/h		5,000	6,300	8,000	12,500	
★1 Cooling Capacity (19.5°CWB) Btu/h kW		19,900	25,000	31,800	49,600	
		5.8	7.3	9.3	14.5	
★2 Cooling C	apacity (19.0°CWB)	kW	5.6	7.1	9.0	14.0
		kcal/h	5,400	6,900	8,600	13,800
★3 Heating C	apacity	Btu/h	21,500	27,300	34,100	54,600
		kW	6.3	8.0	10.0	16.0
Casing			Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate
Dimensions: (H×W×D)	mm	305×995×600	305×1,180×600	305×1,670×600	305×1,670×600
Coil (Cross	Rows×Stages×Fin Pitch	mm	2×10×1.5	2×10×1.5	2×10×1.5	2×10×1.5
Fin Coil)	Face Area	m²	2×0.145	2×0.184	2×0.287	2×0.287
	Model		2D17K1AA1	2D17K2AA1VE	3D17K2AA1	3D17K2AB1
	Туре		Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
Fan	Motor Output × Number of Units	W	20×1	30×1	50×1	85×1
	Air Flow Rate (H/L)	m³/min	12/9	16.5/13	26/21	33/25
	All Flow Flate (FI/L)	cfm	424/318	582/459	918/741	1,165/883
Drive			Direct Drive	Direct Drive	Direct Drive	Direct Drive
Temperature	Temperature Control		Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating
Sound Absort	oing Thermal Insulation Ma	terial	Glass Wool/Urethane Foam	Glass Wool/Urethane Foam	Glass Wool/Urethane Foam	Glass Wool/Urethane Foam
Piping	Liquid Pipes	mm	φ9.5 (Flare Connection)	φ9.5 (Flare Connection)	φ9.5 (Flare Connection)	φ9.5 (Flare Connection)
	Gas Pipes	mm	φ15.9 (Flare Connection)	φ15.9 (Flare Connection)	φ15.9 (Flare Connection)	φ19.1 (Flare Connection)
Connections Drain Pipe mm		VP25 (External Dia. 32) (Internal Dia. 25)	VP25 (External Dia. 32) Internal Dia. 25)	VP25 (External Dia. 32) Internal Dia. 25)	VP25 (External Dia. 32) (Internal Dia. 25)	
Machine Wei	ght	kg	32	35	47	48
★5 Sound Le	vel (H/L)	dBA	34/29	37/32	39/34	44/38
Safety Devices		Fuse, Thermal Protector for Fan Motor	Fuse, Thermal Protector for Fan Motor	Fuse, Thermal Protector for Fan Motor	Fuse, Thermal Protector for Fan Motor	
Refrigerant Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	
Connectable outdoor unit		R22 ; K or M Series R407C ; K or L Series	R22 ; K or M Series R407C ; K or L Series	R22; K or M Series R407C; K or L Series	R22 ; K or M Series R407C ; K or L Series	
·	Model		BYBC50G-W1	BYBC63G-W1	BYBC125G-W1	BYBC125G-W1
	Panel Color		White (10Y9/0.5)	White (10Y9/0.5)	White (10Y9/0.5)	White (10Y9/0.5)
Decoration Panels	Dimensions: (HxWxD)	mm	53×1,245×680	53×1,430×680	53×1,920×680	53×1,920×680
(Option)	Air Filter		Resin Net (with Mold Resistant)	Resin Net (with Mold Resistant)	Resin Net (with Mold Resistant)	Resin Net (with Mold Resistant)
ì	Weight	kg	8.5	9.5	12	12
Standard Accessories		Operation Manual, Paper Installation Manual, Paper Pattern for Installation, Washer for Hanging Brackets, Clamp Metal, Drain Hose, Insulation for Fitting, Washer Fixing Plates, Sealing Pads, Clamps, Screws, Washers.	Operation Manual, Installation Manual, Paper Pattern for Installation, Washer for Hanging Brackets, Clamp Metal, Drain Hose, Insulation for Fitting, Washer Fixing Plates, Sealing Pads, Clamps, Screws, Washers.	Operation Manual, Paper Installation Manual, Paper Pattern for Installation, Washer for Hanging Brackets, Clamp Metal, Drain Hose, Insulation for Fitting, Washer Fixing Plates, Sealing Pads, Clamps, Screws, Washers.	Operation Manual, Paper Installation Manual, Paper Pattern for Installation, Washer for Hanging Brackets, Clamp Metal, Drain Hose, Insulation for Fitting, Washer Fixing Plates, Sealing Pads, Clamps, Screws, Washers.	
Drawing No.				3D034	1244A	
DUUYETTA						

Notes:

- ★1 Indoor temp.: 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★2 Indoor temp.: 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★3 Indoor temp.: 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
- 4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

 ★5 Operation sound is measured in an anechoic chamber.

Conversion Formulae

kcal/h=kW×860 Btu/h=kW×3414 cfm=m³/min×35.3

Ceiling Mounted Cassette Type (Multi-flow)

Model		FXF25LVE	FXF32LVE	FXF40LVE	FXF50LVE	
		kcal/h	2,500	3,150	4,000	5,000
★1 Cooling Capacity (19.5°CWB) Btu/h kW		9,900	12,500	15,900	19,900	
		2.9	3.7	4.7	5.8	
★2 Cooling C	Capacity (19.0°CWB)	kW	2.8	3.6	4.5	5.6
		kcal/h	2,800	3,400	4,300	5,400
★3 Heating C	Capacity	Btu/h	10,900	13,600	17,000	21,500
		kW	3.2	4.0	5.0	6.3
Casing			Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate
Dimensions:	(H×W×D)	mm	246×840×840	246×840×840	246×840×840	246×840×840
Coil (Cross	Rows×Stages×Fin Pitch	mm	2x8x1.2	2×8×1.2	2×8×1.2	2×8×1.2
Fin Coil)	Face Area	m²	0.363	0.363	0.363	0.363
	Model		QTS46D14M	QTS46D14M	QTS46D14M	QTS46D14M
	Туре		Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
Fan	Motor Output × Number of Units	W	30×1	30×1	30×1	30×1
	Air Flow Rate (H/L)	m³/min	13/10	13/10	15/11	16/11
	All I low hate (I //L)	cfm	459/353	459/353	530/388	565/388
Drive			Direct Drive	Direct Drive	Direct Drive	Direct Drive
Temperature	Control		Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating
Sound Absor	Sound Absorbing Thermal Insulation Material		Polyurethane Form	Polyurethane Form	Polyurethane Form	Polyurethane Form
	Liquid Pipes	mm	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)	φ9.5 (Flare Connection)
Piping	Gas Pipes	mm	\$12.7 (Flare Connection)	\$12.7 (Flare Connection)	φ12.7 (Flare Connection)	φ15.9 (Flare Connection)
Connections Drain Pipe		mm	VP25 (External Dia. 32 (Internal Dia. 25)	VP25 (External Dia. 32 (Internal Dia. 25)	VP25 (External Dia. 32) Internal Dia. 25)	VP25 (External Dia. 32 Internal Dia. 25)
Machine Weight kg		kg	24	24	24	24
★5 Sound Level (H/L) (220V)(cooling) dBA		30/27	30/27	31/27	32/27	
Safety Devices		Fuse	Fuse	Fuse	Fuse	
Refrigerant Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	
Connectable outdoor unit		R22 ; K or M Series R407C ; K or L Series	R22 ; K or M Series R407C ; K or L Series	R22 ; K or M Series R407C ; K or L Series	R22 ; K or M Series R407C ; K or L Series	
	Model		BYCP125D-W1	BYCP125D-W1	BYCP125D-W1	BYCP125D-W1
	Panel Color		White (10Y9/0.5)	White (10Y9/0.5)	White (10Y9/0.5)	White (10Y9/0.5)
Decoration Panels	Dimensions: (H×W×D)	mm	45×950×950	45×950×950	45×950×950	45×950×950
(Option)	Air Filter		Resin Net (with Mold Resistant)	Resin Net (with Mold Resistant)	Resin Net (with Mold Resistant)	Resin Net (with Mold Resistant)
	Weight	kg	5.5	5.5	5.5	5.5
Standard Accessories		Operation manual, Installation manual, Paper pattern for installation, Drain hose, Clamp metal, Washer fixing plate, Sealing pads, Clamps, Screws, Washer for hanging bracket, Insulation for fitting.	Operation manual, Installation manual, Paper pattern for installation, Drain hose, Clamp metal, Washer fixing plate, Sealing pads, Clamps, Screws, Washer for hanging bracket, Insulation for fitting.	Operation manual, Installation manual, Paper pattern for installation, Drain hose, Clamp metal, Washer fixing plate, Sealing pads, Clamps, Screws, Washer for hanging bracket, Insulation for fitting.	Operation manual, Installation manual, Paper pattern for installation, Drain hose, Clamp metal, Washer fixing plate, Sealing pads, Clamps, Screws, Washer for hanging bracket, Insulation for fitting.	
Drawing No.				3D03	4210A	

Notes:

- ★1 Indoor temp.: 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★2 Indoor temp.: 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★3 Indoor temp.: 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
- 4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- ★5 Operation sound is measured in an anechoic chamber.

Ceiling Mounted Cassette Type (Multi-flow)

Model		FXF63LVE	FXF80LVE	FXF100LVE	FXF125LVE	
		kcal/h	6,300	8,000	10,000	12,500
★1 Cooling Capacity (19.5°CWB) Btu/h kW		25,000	31,800	39,700	49,600	
		7.3	9.3	11.6	14.5	
★2 Cooling Ca	apacity (19.0°CWB)	kW	7.1	9.0	11.2	14.0
		kcal/h	6,900	8,600	10,800	13,800
★3 Heating Ca	apacity	Btu/h	27,300	34,100	42,700	54,600
		kW	8.0	10.0	12.5	16.0
Casing		•	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate
Dimensions: (H	H×W×D)	mm	246×840×840	246×840×840	288×840×840	288×840×840
Coil (Cross	Rows×Stages×Fin Pitch	mm	2×10×1.2	2×10×1.2	2×12×1.2	2×12×1.2
Fin Coil)	Face Area	m²	0.454	0.454	0.544	0.544
	Model	•	QTS46D14M	QTS46D14M	QTS46C17M	QTS46C17M
	Туре		Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
Fan	Motor Output × Number of Units	W	30×1	30×1	120×1	120×1
-	Air Flour Date (U/L)	m³/min	18.5/14	20/15	26/21	30/24
	Air Flow Rate (H/L)	cfm	653/494	706/530	918/741	1,059/847
Drive			Direct Drive	Direct Drive	Direct Drive	Direct Drive
Temperature Control		Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	
Sound Absorb	ing Thermal Insulation Mat	erial	Polyurethane Form	Polyurethane Form	Polyurethane Form	Polyurethane Form
	Liquid Pipes	mm	φ9.5 (Flare Connection)	φ9.5 (Flare Connection)	φ9.5 (Flare Connection)	φ9.5 (Flare Connection)
Piping	Gas Pipes	mm	φ15.9 (Flare Connection)	φ15.9 (Flare Connection)	φ19.1 (Flare Connection)	φ19.1 (Flare Connection)
Connections		mm	VP25 (External Dia. 32) (Internal Dia. 25)	VP25 (External Dia. 32 (Internal Dia. 25)	VP25 (External Dia. 32) Internal Dia. 25)	VP25 (External Dia. 32 (Internal Dia. 25)
Machine Weight kg		25	25	29	29	
★5 Sound Level (H/L)(cooling) dBA		33/28	36/31	39/33	42/36	
Safety Devices		Fuse	Fuse	Fuse	Fuse	
Refrigerant Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	
Connectable outdoor unit		R22 ; K or M Series R407C ; K or L Series	R22 ; K or M Series R407C ; K or L Series	R22 ; K or M Series R407C ; K or L Series	R22 ; K or M Series R407C ; K or L Series	
	Model		BYCP125D-W1	BYCP125D-W1	BYCP125D-W1	BYCP125D-W1
	Panel Color		White (10Y9/0.5)	White (10Y9/0.5)	White (10Y9/0.5)	White (10Y9/0.5)
Decoration Panels	Dimensions: (H×W×D)	mm	45×950×950	45×950×950	45×950×950	45×950×950
(Option)	Air Filter		Resin Net (with Mold Resistant)	Resin Net (with Mold Resistant)	Resin Net (with Mold Resistant)	Resin Net (with Mold Resistant)
Weight k		kg	5.5	5.5	5.5	5.5
Standard Accessories		Operation manual, Installation manual, Paper pattern for installation, Drain hose, Clamp metal, Washer fixing plate, Sealing pads, Clamps, Screws, Washer for hanging bracket, Insulation for fitting.	Operation manual, Paper pattern for installation, Drain hose, Clamp metal, Washer fixing plate, Sealing pads, Clamps, Screws, Washer for hanging bracket, Insulation for fitting.	Operation manual, Installation manual, Paper pattern for installation, Drain hose, Clamp metal, Washer fixing plate, Sealing pads, Clamps, Screws, Washer for hanging bracket, Insulation for fitting.	Operation manual, Installation manual, Paper pattern for installation, Drain hose, Clamp metal, Washer fixing plate, Sealing pads, Clamps, Screws, Washer for hanging bracket, Insulation for fitting.	
Drawing No.				3D034	1210A	

Notes:

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- ★1 Indoor temp.: 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- $\star 2$ Indoor temp.: 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★3 Indoor temp.: 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
- 4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- ★5 Operation sound is measured in an anechoic chamber.

Ceiling Mounted Cassette Corner Type

#1 Cooling Capacity (19.5°CWB) Real/h 2,500 3,150 4,000 6,300 25,000)
Real)
#2 Cooling Capacity (19.0°CWB))
)
★3 Heating Capacity Bitu/h 10,900 13,600 17,000 27,300 27,300 17,000 27,300 17,000 27,300 17,000 27,300 17,000 27,300 17,000 27,300 17,000 27,300 17,000 27,300 17,00)
Ref)
Casing)
Dimensions:)
Rows/Stagesx Fin Pitch mm 2x11x1.75 2x11x1.75 2x11x1.75 3x11x1.75 3x11x1.	
Face Area m² 0.180 0.180 0.180 0.226	
Face Area m² 0.180 0.180 0.180 0.180 0.226	
Fan	
Motor Output × Number of Units W 15x1 15x1 20x1 45x1	ļ
Fan Fan Fa	
Air Flow Rate (H/L)	
Air Flow Rate (H/L) E/H/L) Cfm 388/318 388/318 388/318 459/353 635/530	
Figure	
Drive Direct Drive	
Temperature Control Microprocessor Thermostat for Cooling and Heating Sound Absorbing Thermal Insulation Material Polyethylene Foam Polyet	
Sound Absorbing Thermal Insulation Material Polyethylene Foam Polyet	
Piping Connections Liquid Pipes mm φ6.4 (Flare Connection)	
Piping Connections Gas Pipes mm φ12.7 (Flare Connection) Drain Pipe mm √P25 (External Dia. 32) (Internal Dia. 25)) (Internal Dia. 25) (In	ım
Connections Drain Pipe mm VP25 (External Dia. 32) (Internal Dia. 25) (External Dia. 32) (Internal Dia. 25) (External Dia. 32) (Internal Dia. 25) (External Dia. 32) (Internal Dia. 32) (Internal Dia. 32) (Internal Dia. 25) (Internal Dia. 32) (tion)
Connections Drain Pipe mm VP25 (External Dia. 32) (Internal Dia. 32) (Internal Dia. 32) (Internal Dia. 25) VP25 (External Dia. 32) (Internal Dia. 32) (Internal Dia. 25) VP25 (External Dia. 32) (Internal Dia. 25) VP25 (External Dia. 32) (Internal Dia. 25) (Internal Dia. 25) VP25 (External Dia. 32) (Internal Dia. 25) (Internal Dia. 25) VP25 (External Dia. 32) (Internal Dia.	ction)
★5 Sound Level (H/L) (220V) dBA 38/33 38/33 40/34 42/37 Safety Devices Thermal Fuse for Fan Motor Th	
Safety Devices Fuse, Thermal Fuse for Fan Motor	
Thermal Fuse for Fan Motor Thermal Fuse for Fan	
Refrigerant Control Flectronic Expansion Valve F	Motor
Lioutonio Expansion valvo Lioutonio Expansion valvo Lioutonio Expansion valvo	Valve
Connectable Outdoor Units R22 ; K or M Series R407C ; K or L Series R22 ; K or M Series R407C ; K or L Series R22 ; K or M Series R407C ; K or L Series R22 ; K or M Series R407C ; K or L Series	j
Model BYK45FJW1 BYK45FJW1 BYK45FJW1 BYK71FJW1	
Panel Color White (10Y9/0.5) White (10Y9/0.5) White (10Y9/0.5) White (10Y9/0.5)	i)
Decoration Panels Dimensions: (HxWxD) mm 70x1,240x800 70x1,240x800 70x1,240x800 70x1,240x800 70x1,240x800	
(Option) Air Filter Resin Net (with Mold Resistant)	ant)
Weight kg 8.5 8.5 8.5 9.5	
Operation Manual, Installation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws, Washers, Positioning Jig for Installation, Insulation for Hanger Bracket, Air Outlet Blocking Pad. Operation Manual, Paper Pattern for Installation, Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws, Washers, Positioning Jig for Installation, Insulation for Hanger Bracket, Air Outlet Blocking Pad. Operation Manual, Paper Pattern for Installation, Manual, Installation Manual, Insulation Manual, Insulation for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws, Washers, Positioning Jig for Installation, Insulation for Hanger Bracket, Air Outlet Blocking Pad. Operation Manual, Installation Manual, Instal	aper , Drain
Drawing No. 3D037070	s, Jig for for

Notes:

- ★1 Indoor temp.: 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★2 Indoor temp.: 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★3 Indoor temp.: 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
- 4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- \star 5 Operation sound is measured in an anechoic chamber.

Ceiling Mounted Low Silhouette Duct Type

★1 Cooling Capacity (19.5°CWB) kcal/h 2,000 2,500 3,150 ★2 Cooling Capacity (19.0°CWB) kW 2.3 2.9 3.7 ★2 Cooling Capacity (19.0°CWB) kW 2.2 2.8 3.6 ★3 Heating Capacity Btu/h 2,200 2,800 3,400 ★3 Heating Capacity Btu/h 8,500 10,900 13,600 kW 2.5 3.2 4.0 Casing Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Dimensions: (HxWxD) mm 260×900×580 260×900×580 260×900×580 Coil (Cross Fin Coil) RowsxStagesxFin Pitch mm 2×10×1.75 2×10×1.75 2×10×1.75 Face Area m² 0.147 0.147 0.147 0.147 Type Sirocco Fan Sirocco Fan Sirocco Fan Motor Output × Number of Units W 45×1 45×1 45×1 Fan Air Flow Rate (H/L) m³/min 12/11 12/11 12/11	ate
kW 2.3 2.9 3.7 ★2 Cooling Capacity (19.0°CWB) kW 2.2 2.8 3.6 ★3 Heating Capacity Btu/h 8,500 10,900 13,600 ★3 Heating Capacity Btu/h 8,500 10,900 13,600 kW 2.5 3.2 4.0 Casing Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Dimensions: (HxWxD) mm 260×900×580 260×900×580 260×900×580 Coil (Cross Fin Coil) Face Area m² 0.147 0.147 0.147 Type Sirocco Fan Sirocco Fan Sirocco Fan Motor Output x Number of Units W 45x1 45x1 45x1 Fan Air Flow Rate (H/L) m³/min 12/11 12/11 12/11	ate
★2 Cooling Capacity (19.0°CWB) kW 2.2 2.8 3.6 ★3 Heating Capacity kcal/h 2,200 2,800 3,400 ★3 Heating Capacity Btu/h 8,500 10,900 13,600 kW 2.5 3.2 4.0 Casing Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Dimensions: (HxWxD) mm 260x900x580 260x900x580 260x900x580 Coil (Cross Fin Coil) RowsxStagesxFin Pitch mm 2x10x1.75 2x10x1.75 2x10x1.75 2x10x1.75 2x10x1.75 2x10x1.75 0.147	ite
★3 Heating Capacity kcal/h 2,200 2,800 3,400 ★3 Heating Capacity Btu/h 8,500 10,900 13,600 Casing Galvanized Steel Plate 3.2 4.0 Casing Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Dimensions: (HxWxD) mm 260×900×580 260×900×580 260×900×580 Coil (Cross Fin Coil) RowsxStagesxFin Pitch mm 2×10×1.75 2×10×1.75 2×10×1.75 2×10×1.75 Face Area m² 0.147 0.147 0.147 0.147 Type Sirocco Fan Sirocco Fan Sirocco Fan Motor Output × Number of Units W 45×1 45×1 45×1 Fan Air Flow Bate (H/I) m³/min 12/11 12/11 12/11	ate
#3 Heating Capacity Btu/h 8,500 10,900 13,600	ate
KW 2.5 3.2 4.0	ate
Casing Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate Dimensions: (HxWxD) mm 260x900x580 260x900x580 260x900x580 Coil (Cross Fin Coil) RowsxStagesxFin Pitch mm 2x10x1.75 2x10x1.75 2x10x1.75 Face Area m² 0.147 0.147 0.147 Type Sirocco Fan Sirocco Fan Sirocco Fan Motor Output x Number of Units W 45x1 45x1 45x1 Fan Air Flow Rate (H/L) m³/min 12/11 12/11 12/11	ate
Dimensions: (HxWxD) mm 260x900x580 260x900x580 260x900x580 260x900x580	ate
Coil (Cross Fin Coil) RowsxStagesxFin Pitch mm 2x10x1.75 2x10x1.7	
Face Area m² 0.147 0.147 0.147	
Type Sirocco Fan Sirocco Fan Sirocco Fan Sirocco Fan	
Motor Output × Number of Units W 45×1 45×1 45×1 45×1	
of Units ' VV 49X1 49X1 49X1 49X1 Fan Air Flow Bate (H/L) M³/min 12/11 12/11 12/11	
Fall Air Flow Bate (H/L)	
All Flow hale (n/L)	
cfm 424/388 424/388 424/388 424/388	
External Static Pressure Pa 49 49 49	
Drive Direct Drive Direct Drive Direct Drive	
Temperature Regulator Microprocessor Thermostat for Cooling and Heating	stat for g
Sound Absorbing Thermal Insulation Material Form Polyethylene Form Polyethylene Form Polyethylene Form Polyethylene	÷
Liquid Pipes mm	on)
Piping Connections Gas Pipes mm \$\ \phi12.7 (Flare Connection) \ \ \phi12.7 (Flare Connection) \ \ \ \phi12.7 (Flare Connection)	ion)
Drain Pipe in. 3/4B 3/4B 3/4B	
Machine Weight kg 23 23 23	
★ 5 Sound Level (H/L) dBA 38/35 38/35 38/35	
Safety Devices Fuse Fuse Fuse Thermal Protector for Fan Motor Thermal Protector for Fan Motor Thermal Protector for Fan Motor	n Motor
Refrigerant Control Electronic Expansion Valve Electronic Expansion Valve Electronic Expansion Valve	/alve
Connectable Outdoor Unit R22 : K or M Series R22 : K or M Series R22 : K or M Series	s
Standard Accessories Operation Manual, Installation Manual, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws for Duct Flanges. Operation Manual, Installation Manual, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws for Duct Flanges. Operation Manual, Installation Manual, Installation Manual, Installation Manual, Installation Operation Manual, Installation Manual, Installation Operation Manual, Installation Manual, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws for Duct Flanges.	ation for
Drawing No. C : 3D024660	s, Screws

Notes:

- ★1 Indoor temp.: 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★2 Indoor temp.: 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★3 Indoor temp.: 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
- 4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- ★5 Operation sound is measured in an anechoic chamber. When the place of suction is changed to the bottom suction, the sound level will increase by approx. 5 dBA
- ★6 Model name for other country

For General Country	FXYD20KAVE	FXYD25KAVE	FXYD32KAVE
For Thailand	FXYD20KVES	FXYD25KVES	FXYD32KVES

Ceiling Mounted Low Silhouette Duct Type

★6 Model		FXYD40KAVE	FXYD50KAVE	FXYD63KAVE		
kcal/h		4,000	5,000	6,300		
★1 Cooling Capacity (19.5°CWB) Btu/h kW		Btu/h	15,900	19,900	25,000	
		4.7	5.8	7.3		
★2 Cooling Capacity (19.0°CWB) kW		4.5	5.6	7.1		
		kcal/h	4,300	5,400	6,900	
★3 Heating Capacity Btu/h		17,000	21,500	27,300		
		kW	5.0	6.3	8.0	
Casing			Galvanized Steel Plate Galvanized Steel Plate		Galvanized Steel Plate	
Dimensions: (I	H×W×D)	mm	260×900×580	260×1,300×580	260×1,300×580	
Coil (Cross	Rows×Stages×Fin Pitch	mm	3×10×1.75	2×10×1.75	3×10×1.75	
Fin Coil)	Face Area	m²	0.147	0.231	0.231	
	Туре		Sirocco Fan	Sirocco Fan	Sirocco Fan	
	Motor Output × Number of Units	W	45×1	65×1	65×1	
Fan	Air Flow Rate (H/L)	m³/min	12/11	17/15	17/15	
		cfm	424/388	600/530	600/530	
	External Static Pressure	Pa	49	49	49	
Drive			Direct Drive	Direct Drive	Direct Drive	
Temperature Control		Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating		
Sound Absorbing Thermal Insulation Material		Form Polyethylene	Form Polyethylene	Form Polyethylene		
	Liquid Pipes	mm	φ6.4 (Flare Connection)	φ9.5 (Flare Connection)	φ9.5 (Flare Connection)	
Piping Connections	Gas Pipes	mm	φ12.7 (Flare Connection)	φ15.9 (Flare Connection)	φ15.9 (Flare Connection)	
0000	Drain Pipe	in.	3/4B	3/4B	3/4B	
Machine Weight kg		kg	24	31	32	
★5 Sound Level (H/L) dBA		38/35	41/38	41/38		
Safety Devices		Fuse Thermal Protector for Fan Motor	Fuse Thermal Protector for Fan Motor	Fuse Thermal Protector for Fan Motor		
Refrigerant Control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	
Connectable (Outdoor Unit		R22 : K or M Series	R22 : K or M Series	R22 : K or M Series	
Standard Acce	essories		Operation Manual, Installation Manual, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws for Duct Flanges.	Operation Manual, Installation Manual, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws for Duct Flanges.	Operation Manual, Installation Manual, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws for Duct Flanges.	
Drawing No.			C : 3D024660			

Notes:

- ★1 Indoor temp.: 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★2 Indoor temp.: 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- $\bigstar 3 \quad \text{Indoor temp.}: 20^{\circ}\text{CDB/outdoor temp.}: 7^{\circ}\text{CDB, } 6^{\circ}\text{CWB/Equivalent piping length}; 7.5\text{m, level difference}; \\$ Om. (Heat pump only)
 4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- $\star 5$ Operation sound is measured in an anechoic chamber. When the place of suction is changed to the bottom suction, the sound level will increase by approx. 5
- ★6 Model name for other country

For General Country	FXYD40KAVE	FXYD50KAVE	FXYD63KAVE
For Thailand	FXYD40KVES	FXYD50KVES	FXYD63KVES

Ceiling Mounted Built-in Type

Model				FXS20LVE	FXS25LVE	FXS32LVE
			kcal/h	2,000	2,500	3,150
★1 Cooling C	capacity (19.5°CWB))	Btu/h	7,900	9,900	12,500
kW			kW	2.3	2.9	3.7
★2 Cooling C	capacity (19.0°CWB))	kW	2.2	2.8	3.6
			kcal/h	2,200	2,800	3,400
★3 Heating C	Capacity		Btu/h	8,500 10,900		13,600
			kW	2.5	3.2	4.0
Casing			•	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate
Dimensions: ((H×W×D)		mm	300×550×800	300×550×800	300×550×800
Coil (Cross	Rows×Stages×Fin	Pitch	mm	3×14×1.75	3×14×1.75	3×14×1.75
Fin Coil)	Face Area		m²	0.088	0.088	0.088
	Model		•	D18H3A	D18H3A	D18H3A
	Туре			Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output × Nu Units	mber of	W	50×1	50×1	50×1
Fan	Air Flow Rate	(50Hz)	m³/min	9/6.5	9/6.5	9.5/7
	(H/L)	(60Hz)	m³/min	9/6.5	9/6.5	9.5/6.5
	★4 Static	(50Hz)	Pa	88-39-20	88-39-20	64-39-15
	external pressure	(60Hz)	Pa	73-24-10	73-24-10	86-42-10
	Drive			Direct Drive	Direct Drive	Direct Drive
Temperature	Control			Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating
Sound Absort	bing Thermal Insula	tion Mate	rial	Glass Fiber	Glass Fiber	Glass Fiber
Air Filter				Resin Net (with Mold Resistant)	Resin Net (with Mold Resistant)	Resin Net (with Mold Resistant)
	Liquid Pipes		mm	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)
Piping	Gas Pipes		mm	φ12.7 (Flare Connection)	φ12.7 (Flare Connection)	φ12.7 (Flare Connection)
Connections	Drain Pipe		mm	VP25 (External Dia. 32 Internal Dia. 25)	VP25 (External Dia. 32 Internal Dia. 25)	VP25 (External Dia. 32 Internal Dia. 25)
Machine Weig	ght		kg	30	30	30
★7 Sound Le	vel (H/L) (220V)		dBA	37/32	37/32	38/32
Safety Device	es			Fuse, Thermal Protector for Fan Motor	Fuse, Thermal Protector for Fan Motor	Fuse, Thermal Protector for Fan Motor
Refrigerant C	ontrol			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Connectable	outdoor unit			R22 : K or M Series, R407C : K or L Series	R22 : K or M Series, R407C : K or L Series	R22 : K or M Series, R407C : K or L Series
	Model			BYBS32DJW1	BYBS32DJW1	BYBS32DJW1
Decoration	Panel Color			White (10Y9/0.5)	White (10Y9/0.5)	White (10Y9/0.5)
Panel (Option)	Dimensions: (H×W×D)		mm	55×650×500	55×650×500	55×650×500
Weight kg			kg	3	3	3
Standard Accessories				Operation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws, Washers.	Operation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws, Washers.	Operation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws, Washers.
Drawing No.					3D036931	

Notes:

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- ★1 Indoor temp.: 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★2 Indoor temp.: 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★3 Indoor temp.: 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
- ★4 Static external pressure is changeable to change over the connectors inside electrical box, this pressure means
 - "High static pressure-Standard -Low static pressure".
- ★5 Static external pressure is changeable to change over the connectors inside electrical box, this pressure means
 - "High static pressure-Standard".
- 6 Capacities are net, including a deduction for cooling (an additional for heating) for indoor fan motor heat.
- ★7 Operation sound is measured in an anechoic chamber.

Ceiling Mounted Built-in Type

Model				FXS40LVE	FXS50LVE	FXS63LVE
			kcal/h	4,000	5,000	6,300
★1 Cooling Capacity (19.5°CWB) Btu/h kW			Btu/h	15,900	19,900	25,000
			kW	4.7	5.8	7.3
★2 Cooling C	apacity (19.0°CWB))	kW	4.5	5.6	7.1
			kcal/h	4,300	5,400	6,900
★3 Heating C	apacity		Btu/h	17,000	21,500	27,300
			kW	5.0	6.3	8.0
Casing				Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate
Dimensions: ((H×W×D)		mm	300×700×800	300×700×800	300×1,000×800
Coil (Cross	Rows×Stages×Fin	Pitch	mm	3×14×1.75	3×14×1.75	3×14×1.75
Coil (Cross Fin Coil)	Face Area		m²	0.132	0.132	0.221
	Model			D18H2A	D18H2A	2D18H2A
	Туре			Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output × Nu Units	mber of	W	65×1	85×1	125×1
Fan	Air Flow Rate	(50Hz)	m³/min	11.5/9	15/11	21/15.5
	(H/L)	(60Hz)	m³/min	11.5/9	15/11	21/14
	★4 Static	(50Hz)	Pa	88-49-20	88-59-29	88-49-20
	external pressure	(60Hz)	Pa	88-29-10	88-41-10	122-66-10
	Drive			Direct Drive	Direct Drive	Direct Drive
Temperature	Control			Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating
Sound Absort	oing Thermal Insulat	tion Mate	rial	Glass Fiber	Glass Fiber	Glass Fiber
Air Filter				Resin Net (with Mold Resistant)	Resin Net (with Mold Resistant)	Resin Net (with Mold Resistant)
	Liquid Pipes		mm	φ6.4 (Flare Connection)	φ9.5 (Flare Connection)	φ9.5 (Flare Connection)
Piping	Gas Pipes		mm	φ12.7 (Flare Connection)	φ15.9 (Flare Connection)	φ15.9 (Flare Connection)
Connections	Drain Pipe		mm	VP25 (External Dia. 32 Internal Dia. 25)	VP25 (External Dia. 32 Internal Dia. 25)	VP25 (External Dia. 32 Internal Dia. 25)
Machine Weig	ght		kg	30	31	41
★7 Sound Le	vel (H/L)		dBA	38/32	41/36	42/35
Safety Device	es .			Fuse, Thermal Protector for Fan Motor	Fuse, Thermal Protector for Fan Motor	Fuse, Thermal Protector for Fan Motor
Refrigerant C	ontrol			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Connectable of	outdoor unit			R22 : K or M Series, R407C : K or L Series	R22 : K or M Series, R407C : K or L Series	R22 : K or M Series, R407C : K or L Series
	Model			BYBS45DJW1	BYBS45DJW1	BYBS71DJW1
Decoration	Panel Color			White (10Y9/0.5)	White (10Y9/0.5)	White (10Y9/0.5)
Panel (Option)	Dimensions: (H×W	/×D)	mm	55×800×500	55×800×500	55×1,100×500
Weight kg			kg	3.5	3.5	4.5
Standard Accessories				Operation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws, Washers.	Operation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws, Washers.	Operation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws, Washers.
Drawing No.					3D036931	

Notes:

- ★1 Indoor temp.: 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★2 Indoor temp.: 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★3 Indoor temp.: 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
- ★4 Static external pressure is changeable to change over the connectors inside electrical box, this pressure means
 - "High static pressure-Standard -Low static pressure".
- ★5 Static external pressure is changeable to change over the connectors inside electrical box, this pressure means
 - "High static pressure-Standard".
- 6 Capacities are net, including a deduction for cooling (an additional for heating) for indoor fan motor heat.
- ★7 Operation sound is measured in an anechoic chamber.

Ceiling Mounted Built-in Type

Model				FXS80LVE	FXS100LVE	FXS125LVE
			kcal/h	8,000	10,000	12,500
★1 Cooling 0	Capacity (19.5°CWE	3)	Btu/h	31,800	39,700	49,600
kW			kW	9.3	11.6	14.5
★2 Cooling (Capacity (19.0°CWE	3)	kW	9.0	11.2	14.0
			kcal/h	8,600	10,800	13,800
★3 Heating 0	Capacity		Btu/h	34,100 42,700		54,600
			kW	10.0	12.5	16.0
Casing			•	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate
Dimensions:	(H×W×D)		mm	300×1,400×800	300×1,400×800	300×1,400×800
Coil (Cross	Rows×Stages×Fin	Pitch	mm	3×14×1.75	3×14×1.75	3×14×1.75
Fin Coil)	Face Area		m²	0.338	0.338	0.338
	Model		l.	3D18H2A	3D18H2A	3D18H2A
	Туре			Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output × Nu Units	mber of	W	225×1	225×1	225×1
Fan	Air Flow Rate	(50Hz)	m³/min	27/21.5	28/22	38/28
	(H/L)	(60Hz)	m³/min	27/20.5	28/21	38/27
	★5 Static	(50Hz)	Pa	113-82	107-75	78-39
	external pressure	(60Hz)	Pa	147-92	136-83	78-20
	Drive			Direct Drive	Direct Drive	Direct Drive
Temperature	Control			Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating
Sound Absor	bing Thermal Insula	ation Mate	erial	Glass Fiber	Glass Fiber	Glass Fiber
Air Filter				Resin Net (with Mold Resistant)	Resin Net (with Mold Resistant)	Resin Net (with Mold Resistant)
	Liquid Pipes		mm	φ9.5 (Flare Connection)	φ9.5 (Flare Connection)	φ9.5 (Flare Connection)
Piping	Gas Pipes		mm	φ15.9 (Flare Connection)	φ19.1 (Flare Connection)	φ19.1 (Flare Connection)
Connections	Drain Pipe		mm	VP25 (External Dia. 32 Internal Dia. 25)	VP25 (External Dia. 32 Internal Dia. 25)	VP25 (External Dia. 32 Internal Dia. 25)
Machine Wei	ight		kg	51	51	52
★7 Sound Le	evel (H/L)		dBA	43/37	43/37	46/41
Safety Devic	es			Fuse, Thermal Protector for Fan Motor	Fuse, Thermal Protector for Fan Motor	Fuse, Thermal Protector for Fan Motor
Refrigerant C	Control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Connectable	outdoor unit			R22 : K or M Series, R407C : K or L Series	R22 : K or M Series, R407C : K or L Series	R22 : K or M Series, R407C : K or L Series
	Model			BYBS125DJW1	BYBS125DJW1	BYBS125DJW1
Decoration	Panel Color			White (10Y9/0.5)	White (10Y9/0.5)	White (10Y9/0.5)
Panel (Option)	Dimensions: (H×W	/×D)	mm	55×1,500×500	55×1,500×500	55×1,500×500
			kg	6.5	6.5	6.5
Standard Accessories			-	Operation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws, Washers.	Operation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws, Washers.	Operation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws, Washers.
Drawing No.					3D036931	

Notes:

- ★1 Indoor temp.: 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★2 Indoor temp.: 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★3 Indoor temp.: 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
- ★4 Static external pressure is changeable to change over the connectors inside electrical box, this pressure means
 - "High static pressure-Standard -Low static pressure".
- ★5 Static external pressure is changeable to change over the connectors inside electrical box, this pressure means
 - "High static pressure-Standard".
- 6 Capacities are net, including a deduction for cooling (an additional for heating) for indoor fan motor heat.
- ★7 Operation sound is measured in an anechoic chamber.

Ceiling Mounted Built-in (Rear Suction Type)

Model			FXYB20KV1	FXYB25KV1	FXYB32KV1
		kcal/h	2,000	2,500	3,150
		Btu/h	7,900	9,900	12,500
		kW	2.3	2.9	3.7
★2 Cooling Ca	apacity (19.0°CWB)	kW	2.2	2.8	3.6
		kcal/h	2,200	2,800	3,400
★3 Heating Ca	apacity	Btu/h	8,500	10,900	13,600
		kW	2.5	3.2	4.0
Casing			Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate
Dimensions: (I	H×W×D)	mm	300×550×800	300×550×800	300×550×800
Coil (Cross	Rows×Stages×Fin Pitch	mm	3×14×1.75	3×14×1.75	3×14×1.75
Fin Coil)	Face Area	m²	0.088	0.088	0.088
	Model		D18H3AA1V1	D18H3AA1V1	D18H3AA1V1
	Туре		Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output × Number of Units	W	50×1	50×1	50×1
Fan	Air Flow Rate (H/L)	m³/min	9/6.5	9/6.5	9/6.5
		cfm	318/230	318/230	318/230
	★4 External Static Pressure	Pa	88-39-20	88-39-20	88-39-20
	Drive		Direct Drive	Direct Drive	Direct Drive
Temperature 0	Control		Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating
Sound Absorb	ing Thermal Insulation Mate	erial	Glass Fiber	Glass Fiber	Glass Fiber
	Liquid Pipes	mm	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)
Piping	Gas Pipes	mm	φ12.7 (Flare Connection)	φ12.7 (Flare Connection)	φ12.7 (Flare Connection)
Connections	Drain Pipe	mm	VP25 (External Dia. 32 Internal Dia. 25)	VP25 (External Dia. 32 Internal Dia. 25)	VP25 (External Dia. 32 Internal Dia. 25)
Machine Weig	ht	kg	30	30	30
★6 Sound Lev	rel (H/L) (220V)	dBA	27/23	27/23	27/23
Safety Devices		Fuse Thermal Protector for Fan Motor	Fuse Thermal Protector for Fan Motor	Fuse Thermal Protector for Fan Motor	
Refrigerant Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	
Connectable of	outdoor unit		R22 : K or M Series	R22 : K or M Series	R22 : K or M Series
Standard Accessories		Operation Manual, Installation Manual, Drain Hose, Clamp Metal, Sealing Pads, Clamps, Fuses, Screws, Washers.	Operation Manual, Installation Manual, Drain Hose, Clamp Metal, Sealing Pads, Clamps, Fuses, Screws, Washers.	Operation Manual, Installation Manual, Drain Hose, Clamp Metal, Sealing Pads, Clamps, Fuses, Screws, Washers.	
Drawing No.				C: 3D023749	

Notes:

- ★1 Indoor temp.: 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★2 Indoor temp.: 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★3 Indoor temp.: 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
- ★4 External static pressure is changeable to change over the connectors inside electrical box, this pressure means
 - "High static pressure-Standard-Low static pressure".
- 5 Capacities are net, including a deduction for cooling (an additional for heating) for indoor fan motor heat.
- \star 6 Operation sound is measured in an anechoic chamber.

Ceiling Mounted Built-in (Rear Suction Type)

Model			FXYB40KV1	FXYB50KV1	FXYB63KV1
		kcal/h	4,000	5,000	6,300
		Btu/h	15,900	19,900	25,000
		kW	4.7	5.8	7.3
★2 Cooling Ca	apacity (19.0°CWB)	kW	4.5	5.6	7.1
		kcal/h	4,300	5,400	6,900
★3 Heating Ca	apacity	Btu/h	17,000	21,500	27,300
		kW	5.0	6.3	8.0
Casing		•	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate
Dimensions: (I	H×W×D)	mm	300×700×800	300×700×800	300×1,000×800
Coil (Cross	Rows×Stages×Fin Pitch	mm	3×14×1.75	3×14×1.75	3×14×1.75
Fin Coil)	Face Area	m²	0.132	0.132	0.221
	Model		D18H2AC1V1	D18H2AB1V1	2D18H2AB1V1
	Туре		Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output × Number of Units	W	65×1	85×1	125×1
Fan	Air Flow Rate (H/L)	m³/min	11.5/9	14/10	19/14
		cfm	406/318	494/353	671/494
	★4 External Static Pressure	Pa	88-49-20	88-49-20	88-49-20
	Drive		Direct Drive	Direct Drive	Direct Drive
Temperature 0	Control		Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating
Sound Absorb	ing Thermal Insulation Mat	erial	Glass Fiber	Glass Fiber	Glass Fiber
	Liquid Pipes	mm	φ6.4 (Flare Connection)	φ9.5 (Flare Connection)	φ9.5 (Flare Connection)
Piping	Gas Pipes	mm	φ12.7 (Flare Connection)	φ15.9 (Flare Connection)	φ15.9 (Flare Connection)
Connections	Drain Pipe	mm	VP25 (External Dia. 32 Internal Dia. 25)	VP25 (External Dia. 32 Internal Dia. 25)	VP25 (External Dia. 32 Internal Dia. 25)
Machine Weig	ht	kg	30	31	41
★6 Sound Lev	rel (H/L)	dBA	28/24	30/25	32/25
Safety Devices		Fuse Thermal Protector for Fan Motor	Thermal Protector for Fan Motor	Thermal Protector for Fan Motor	
Refrigerant Control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Connectable of	utdoor unit		R22 : K or M Series	R22 : K or M Series	R22 : K or M Series
Standard Accessories		Operation Manual, Installation Manual, Drain Hose, Clamp Metal, Sealing Pads, Clamps, Fuses, Screws, Washers.	Operation Manual, Installation Manual, Drain Hose, Clamp Metal, Sealing Pads, Clamps, Fuses, Screws, Washers.	Operation Manual, Installation Manual, Drain Hose, Clamp Metal, Sealing Pads, Clamps, Fuses, Screws, Washers.	
Drawing No.				C: 3D023749	

Notes:

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- ★1 Indoor temp.: 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★2 Indoor temp.: 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★3 Indoor temp.: 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
- ★4 External static pressure is changeable to change over the connectors inside electrical box, this pressure means
 - "High static pressure-Standard".
- 5 Capacities are net, including a deduction for cooling (an additional for heating) for indoor fan motor heat.
- \star 6 Operation sound is measured in an anechoic chamber.

Ceiling Mounted Built-in (Rear Suction Type)

Model		FXYB80KV1	FXYB100KV1	FXYB125KV1	
		kcal/h	8,000	10,000	12,500
		Btu/h	31,800	39,700	49,600
		kW	9.3	11.6	14.5
★2 Cooling Ca	apacity (19.5°CWB)	kW	9.0	11.2	14.0
		kcal/h	8,600	10,800	13,800
★3 Heating Ca	apacity	Btu/h	34,100	42,700	54,600
		kW	10.0	12.5	16.0
Casing			Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate
Dimensions: (I	H×W×D)	mm	300×1,400×800	300×1,400×800	300×1,400×800
Coil (Cross	Rows×Stages×Fin Pitch	mm	3×14×1.75	3×14×1.75	3×14×1.75
Fin Coil)	Face Area	m²	0.338	0.338	0.338
	Model		3D18H2AH1V1	3D18H2AH1V1	3D18H2AG1V1
	Туре		Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output × Number of Units	W	135×1	135×1	225×1
Fan	Air Flow Rate (H/L)	m³/min	27/20	27/20	35/24
		cfm	953/706	953/706	1,236/847
	★4 External Static Pressure	Pa	88-49	88-49	88-49
	Drive		Direct Drive	Direct Drive	Direct Drive
Temperature (Control		Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating
Sound Absorb	ing Thermal Insulation Mate	erial	Glass Fiber	Glass Fiber	Glass Fiber
	Liquid Pipes	mm	φ9.5 (Flare Connection)	φ9.5 (Flare Connection)	φ9.5 (Flare Connection)
Piping	Gas Pipes	mm	φ15.9 (Flare Connection)	φ19.1 (Flare Connection)	φ19.1 (Flare Connection)
Connections	Drain Pipe	mm	VP25 (External Dia. 32 Internal Dia. 25)	VP25 (External Dia. 32 Internal Dia. 25)	VP25 (External Dia. 32 Internal Dia. 25)
Machine Weig	ht	kg	51	51	52
★6 Sound Lev	el (H/L)	dBA	32/27	32/27	34/27
Safety Devices		Thermal Fuse for Fan Motor	Thermal Fuse for Fan Motor	Fuse Thermal Fuse for Fan Motor	
Refrigerant Control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Connectable of	outdoor unit		R22 : K or M Series	R22 : K or M Series	R22 : K or M Series
Standard Accessories		Operation Manual, Installation Manual, Drain Hose, Clamp Metal, Sealing Pads, Clamps, Fuses, Screws, Washers.	Operation Manual, Installation Manual, Drain Hose, Clamp Metal, Sealing Pads, Clamps, Fuses, Screws, Washers.	Operation Manual, Installation Manual, Drain Hose, Clamp Metal, Sealing Pads, Clamps, Fuses, Screws, Washers.	
Drawing No.				C: 3D023749	

Notes:

- ★1 Indoor temp.: 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★2 Indoor temp.: 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★3 Indoor temp.: 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
- ★4 External static pressure is changeable to change over the connectors inside electrical box, this pressure means
 - "High static pressure Standard".
- 5 Capacities are net, including a deduction for cooling (an additional for heating) for indoor fan motor heat.
- \star 6 Operation sound is measured in an anechoic chamber.

Ceiling Mounted Duct Type

Model			FXM40LVE	FXM50LVE	FXM63LVE	FXM80LVE
kcal/h		4,000	5,000	6,300	8,000	
★1 Cooling C	★1 Cooling Capacity (19.5°CWB)		15,900	19,900	25,000	31,800
		kW	4.7	5.8	7.3	9.3
★2 Cooling C	apacity (19.0°CWB)	kW	4.5	5.6	7.1	9.0
		kcal/h	4,300	5,400	6,900	8,600
★3 Heating C	apacity	Btu/h	17,000	21,500	27,300	34,100
		kW	5.0	6.3	8.0	10.0
Casing			Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate
Dimensions: (H×W×D)	mm	390×720×690	390×720×690	390×720×690	390×1,110×690
Coil (Cross	Rows×Stages×Fin Pitch	mm	3×16×2.0	3×16×2.0	3×16×2.0	3×16×2.0
Coil (Cross Fin Coil)	Face Area	m²	0.181	0.181	0.181	0.319
	Model		D11/2D3AB1VE	D11/2D3AB1VE	D11/2D3AA1VE	2D11/2D3AG1VE
	Туре		Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output × Number of Units	W	100×1	100×1	160×1	270×1
Fan	Air Flam Data (LI/L)	m³/min	14/11.5	14/11.5	19.5/16	29/23
	Air Flow Rate (H/L)	cfm	494/406	494/406	688/565	1,024/812
	External Static Pressure	Pa	157/157-118/108 ★4	157/157-118/108 ★4	157/160-108/98 ★4	157/172-98/98 ★4
	Drive	•	Direct Drive	Direct Drive	Direct Drive	Direct Drive
Temperature	Control		Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating
Sound Absort	oing Thermal Insulation Ma	terial	Glass Fiber	Glass Fiber	Glass Fiber	Glass Fiber
Air Filter			★ 5	★ 5	★ 5	★ 5
	Liquid Pipes	mm	φ6.4 (Flare Connection)	φ9.5 (Flare Connection)	φ9.5 (Flare Connection)	φ9.5 (Flare Connection)
Piping	Gas Pipes	mm	φ12.7 (Flare Connection)	φ15.9 (Flare Connection)	φ15.9 (Flare Connection)	φ15.9 (Flare Connection)
Connections	Drain Pipe	mm	VP25 (External Dia. 32) Internal Dia. 25)	VP25 (External Dia. 32) (Internal Dia. 25)	VP25 (External Dia. 32) Internal Dia. 25)	VP25 (External Dia. 32) Internal Dia. 25)
Machine Weig	ght	kg	44	44	45	62
★7 Sound Le	vel (H/L)	dBA	39/35	39/35	42/38	43/39
Safety Devices		Fuse, Thermal Fuse for Fan Motor	Fuse, Thermal Fuse for Fan Motor	Fuse, Thermal Fuse for Fan Motor	Fuse, Thermal Fuse for Fan Motor	
Refrigerant Control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Connectable outdoor unit			R22 ; K or M Series R407C ; K or L Series	R22 ; K or M Series R407C ; K or L Series	R22 ; K or M Series R407C ; K or L Series	R22 ; K or M Series R407C ; K or L Series
Standard Accessories		Operation Manual, Installation Manual, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Insulation for Fitting Insulation for Fitting Insulation for F		Installation Manual, Drain Hose, Clamp Metal.	Operation Manual, Installation Manual, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws.	
Drawing No.				3D03-	4584A	

Notes:

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- ★1 Indoor temp.: 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★2 Indoor temp.: 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★3 Indoor temp.: 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
- ★4 Static external pressure is changeable to change over the connectors inside electrical box, this pressure means "High static pressure-Standard".
- \star 5 Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its colorimetric method (gravity method) 50% or more.

 6 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- ★7 Operation sound is measured in an anechoic chamber.

Conversion Formulae kcal/h=kW×860 Btu/h=kW×3414 cfm=m³/min×35.3

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

Ceiling Mounted Duct Type

Model			FXM100LVE	FXM125LVE	FXM200LVE	FXM250LVE
		kcal/h	10,000	12,500	20,000	25,000
★1 Cooling Capacity (19.5°CWB) Btu/h		Btu/h	39,700	49,600	79,000	99,000
		kW	11.6	14.5	23.0	28.8
★2 Cooling C	Capacity (19.0°CWB)	kW	11.2	14.0	22.4	28.0
		kcal/h	10,800	13,800	21,500	27,000
★3 Heating C	Capacity	Btu/h	42,700	54,600	85,300	107,500
_		kW	12.5	16.0	25.0	31.5
Casing		ı	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate
Dimensions: ((H×W×D)	mm	390×1,110×690	390×1,110×690	470×1,380×1,100	470×1,380×1,100
Coil (Cross	Rows×Stages×Fin Pitch	mm	3×16×2.0	3×16×2.0	3×26×2.0	3×26×2.0
Coil (Cross Fin Coil)	Face Area	m²	0.319	0.319	0.68	0.68
	Model		2D11/2D3AG1VE	2D11/2D3AF1VE	D13/4G2DA1×2	D13/4G2DA1×2
	Туре		Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output × Number of Units	W	270×1	430×1	380×2	380×2
Fan	Air Flam Data (11/1)	m³/min	29/23	36/29	58/50	72/62
	Air Flow Rate (H/L)	cfm	1,024/812	1,271/1,024	2,047/1,765	2,542/2,189
	External Static Pressure	Pa	157/172-98/98 ★4	191/245-152/172 ★4	221/270-132 ★4	270/191-147 ★4
	Drive		Direct Drive	Direct Drive	Direct Drive	Direct Drive
Temperature	Control		Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating
Sound Absorb	bing Thermal Insulation Ma	terial	Glass Fiber	Glass Fiber	Glass Fiber	Glass Fiber
Air Filter			★ 5	★ 5	★ 5	★ 5
	Liquid Pipes	mm	φ9.5 (Flare Connection)	φ9.5 (Flare Connection)	φ12.7 (Flare Connection)	φ12.7 (Flare Connection)
Piping	Gas Pipes	mm	φ19.1 (Flare Connection)	φ19.1 (Flare Connection)	φ25.4 (Brazing Connection)	φ28.6 (Brazing Connection)
Connections	Drain Pipe	mm	VP25 (External Dia. 32) Internal Dia. 25)	VP25 (External Dia. 32 Internal Dia. 25)	PS1B	PS1B
Machine Wei	ght	kg	63	65	137	137
★7 Sound Le	vel (H/L)	dBA	43/39	45/42	48/45	48/45
Safety Devices			Fuse, Thermal Fuse for Fan Motor	Fuse, Thermal Fuse for Fan Motor	Fuse, Thermal Protector for Fan Motor	Fuse, Thermal Protector for Fan Motor
Refrigerant Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	
Connectable outdoor unit			R22 ; K or M Series R407C ; K or L Series	R22 ; K or M Series R407C ; K or L Series	R22 ; K or M Series R407C ; K or L Series	R22 ; K or M Series R407C ; K or L Series
Standard Accessories		Operation Manual, Installation Manual, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws.	Operation Manual, Installation Manual, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws.	Operation Manual, Installation Manual, Sealing Pads, Connection Pipes, Screws, Clamps.	Operation Manual, Installation Manual, Sealing Pads, Connection Pipes, Screws, Clamps.	
Drawing No.					4584A	

Notes:

- ★1 Indoor temp.: 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★2 Indoor temp.: 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★3 Indoor temp.: 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
- ★4 Static external pressure is changeable to change over the connectors inside electrical box, this pressure means "High static pressure-Standard".
- ★5 Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its colorimetric method (gravity method) 50% or more.
- 6 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- \star 7 Operation sound is measured in an anechoic chamber.

Ceiling Suspended Type

Model		FXH32LVE	FXH63LVE	FXH100LVE	
		kcal/h	3,150	6,300	10,000
★1 Cooling Capacity (19.5°CWB)		Btu/h	12,500	25,000	39,700
		kW	3.7	7.3	11.6
★2 Cooling Ca	apacity (19.0°CWB)	kW	3.6	7.1	11.2
		kcal/h	3,400	6,900	10,800
★3 Heating Ca	apacity	Btu/h	13,600	27,300	42,700
		kW	4.0	8.0	12.5
Casing Color			White (10Y9/0.5)	White (10Y9/0.5)	White (10Y9/0.5)
Dimensions: (I	H×W×D)	mm	195×960×680	195×1,160×680	195×1,400×680
Coil (Cross Fin Coil)	Rows×Stages×Fin Pitch	mm	2×12×1.75	3×12×1.75	3×12×1.75
Fin Coil)	Face Area	m²	0.182	0.233	0.293
	Model		3D12K1AA1	4D12K1AA1	3D12K2AA1
	Туре		Sirocco Fan	Sirocco Fan	Sirocco Fan
Fan	Motor Output × Number of Units	W	62×1	62×1	130×1
	A::: []-::: D-t- ()	m³/min	12/10	17.5/14	25/19.5
	Air Flow Rate (H/L)	cfm	424/353	618/494	883/688
	Drive		Direct Drive	Direct Drive	Direct Drive
Temperature 0	Control		Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating
Sound Absorb	ing Thermal Insulation Mat	erial	Glass Wool	Glass Wool	Glass Wool
Air Filter			Resin Net (with Mold Resistant)	Resin Net (with Mold Resistant)	Resin Net (with Mold Resistant)
	Liquid Pipes	mm	φ6.4 (Flare Connection)	φ9.5 (Flare Connection)	φ9.5 (Flare Connection)
Piping	Gas Pipes	mm	φ12.7 (Flare Connection)	φ15.9 (Flare Connection)	φ19.1 (Flare Connection)
Connections	Drain Pipe	mm	VP20 (External Dia. 26 Internal Dia. 20)	VP20 (External Dia. 26 Internal Dia. 20)	VP20 (External Dia. 26 Internal Dia. 20)
Machine Weig	ht	kg	24	28	33
★5 Sound Lev	el (H/L)	dBA	36/31	39/34	45/37
Safety Devices		Fuse, Thermal Protector for Fan Motor	Fuse, Thermal Protector for Fan Motor	Fuse, Thermal Protector for Fan Motor	
Refrigerant Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	
Connectable outdoor unit		R22 ; K or M Series, R407C ; K or L Series	R22 ; K or M Series, R407C ; K or L Series	R22 ; K or M Series, R407C ; K or L Series	
Standard Accessories		Operation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Clamps, Washers, Flare Nut.	Operation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Clamps, Washers.	Operation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Clamps, Washers.	
Drawing No.				3D035297	

Notes:

- ★1 Indoor temp.: 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★2 Indoor temp.: 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★3 Indoor temp.: 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
- 4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- \star 5 Operation sound is measured in an anechoic chamber.

Wall Mounted Type

Model			FXA20LVE	FXA25LVE	FXA32LVE
		kcal/h	2,000	2,500	3,150
★1 Cooling Capacity (19.5°CWB) Btu/h		Btu/h	7,900	9,900	12,500
		kW	2.3	2.9	3.7
★2 Cooling Ca	apacity (19.0°CWB)	kW	2.2	2.8	3.6
		kcal/h	2,200	2,800	3,400
★3 Heating Ca	apacity	Btu/h	8,500	10,900	13,600
		kW	2.5	3.2	4.0
Casing Color		•	White (10Y9/0.5)	White (10Y9/0.5)	White (10Y9/0.5)
Dimensions: (I	H×W×D)	mm	290×795×230	290×795×230	290×795×230
Coil (Cross	Rows×Stages×Fin Pitch	mm	2×14×1.4	2×14×1.4	2×14×1.4
Fin Coil)	Face Area	m²	0.161	0.161	0.161
	Model	•	_	_	_
	Туре		Cross Flow Fan	Cross Flow Fan	Cross Flow Fan
Fan	Motor Output × Number of Units	W	40×1	40×1	40×1
	Air Flow Rate (H/L)	m³/min	7.5/4.5	8/5	9/5.5
		cfm	265/159	282/177	318/194
	Drive		Direct Drive	Direct Drive	Direct Drive
Temperature (Control		Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating
Sound Absorb	ing Thermal Insulation Mate	erial	Foamed Polystyrene / Foamed Polyethylene	Foamed Polystyrene / Foamed Polyethylene	Foamed Polystyrene / Foamed Polyethylene
Air Filter			Resin Net (Washable)	Resin Net (Washable)	Resin Net (Washable)
	Liquid Pipes	mm	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)
Piping	Gas Pipes	mm	φ12.7 (Flare Connection)	φ12.7 (Flare Connection)	φ12.7 (Flare Connection)
Connections	Drain Pipe	mm	VP13 (External Dia. 18 Internal Dia. 13)	VP13 (External Dia. 18 Internal Dia. 13)	VP13 (External Dia. 18 Internal Dia. 13)
Machine Weig	ht	kg	11	11	11
★5 Sound Lev	rel (H/L)	dBA	35/29	36/29	37/29
Safety Devices		Fuse	Fuse	Fuse	
Refrigerant Control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Connectable outdoor unit			R22:K or M Series R407C:K or L Series	R22:K or M Series R407C:K or L Series	R22:K or M Series R407C:K or L Series
Standard Accessories		Operation Manual, Installation Manual, Installation Panel, Paper Pattern for Installation, Insulation Tape, Clamps, screws.	Operation Manual, Installation Manual, Installation Panel, Paper Pattern for Installation, Insulation Tape, Clamps, screws.	Operation Manual, Installation Manual, Installation Panel, Paper Pattern for Installation, Insulation Tape, Clamps, screws.	
Drawing No.				3D034904A	

Notes:

- ★1 Indoor temp.: 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★2 Indoor temp.: 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length:7.5m, level difference: 0m.
- ★3 Indoor temp.: 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
- 4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- \star 5 Operation sound is measured in an anechoic chamber.

Wall Mounted Type

Model			FXA40LVE	FXA50LVE	FXA63LVE
		kcal/h	4,000	5,000	6,300
★1 Cooling Ca	apacity (19.5°CWB)	Btu/h	15,900	19,900	25,000
kW		kW	4.7	5.8	7.3
★2 Cooling Ca	apacity (19.0°CWB)	kW	4.5	5.6	7.1
		kcal/h	4,300	5,400	6,900
★3 Heating Ca	apacity	Btu/h	17,000	21,500	27,300
		kW	5.0	6.3	8.0
Casing Color		•	White (10Y9/0.5)	White (10Y9/0.5)	White (10Y9/0.5)
Dimensions: (I	H×W×D)	mm	290×1,050×230	290×1,050×230	290×1,050×230
Coil (Cross	Rows×Stages×Fin Pitch	mm	2×14×1.4	2×14×1.4	2×14×1.4
Fin Coil)	Face Area	m²	0.213	0.213	0.213
	Model	•	_	_	_
	Туре		Cross Flow Fan	Cross Flow Fan	Cross Flow Fan
Fan	Motor Output × Number of Units	W	43×1	43×1	43×1
	Air Flow Rate (H/L)	m³/min	12/9	15/12	19/14
		cfm	424/318	530/424	671/494
	Drive		Direct Drive	Direct Drive	Direct Drive
Temperature (Control		Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating
Sound Absorb	ing Thermal Insulation Mat	erial	Foamed Polystyrene / Foamed Polyethylene	Foamed Polystyrene / Foamed Polyethylene	Foamed Polystyrene / Foamed Polyethylene
Air Filter			Resin Net (Washable)	Resin Net (Washable)	Resin Net (Washable)
	Liquid Pipes	mm	φ6.4 (Flare Connection)	φ9.5 (Flare Connection)	φ9.5 (Flare Connection)
Piping	Gas Pipes	mm	φ12.7 (Flare Connection)	φ15.9 (Flare Connection)	φ15.9 (Flare Connection)
Connections	Drain Pipe	mm	VP13 (External Dia. 18 Internal Dia. 13)	VP13 (External Dia. 18 Internal Dia. 13)	VP13 (External Dia. 18 Internal Dia. 13)
Machine Weig	ht	kg	14	14	14
★5 Sound Lev	rel (H/L)	dBA	39/34	42/36	46/39
Safety Devices		Fuse	Fuse	Fuse	
Refrigerant Control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Connectable outdoor unit			R22:K or M Series R407C:K or L Series	R22:K or M Series R407C:K or L Series	R22:K or M Series R407C:K or L Series
Standard Accessories		Operation Manual, Installation Manual, Installation Panel, Paper Pattern for Installation, Insulation Tape, Clamps, screws.	Operation Manual, Installation Manual, Installation Panel, Paper Pattern for Installation, Insulation Tape, Clamps, screws.	Operation Manual, Installation Manual, Installation Panel, Paper Pattern for Installation, Insulation Tape, Clamps, screws.	
Drawing No.				3D034904A	

Notes:

- ★1 Indoor temp: : 27°CDB, 19.5°CWB / outdoor temp; 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★2 Indoor temp: : 27°CDB, 19.0°CWB / outdoor temp; 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★3 Indoor temp.: 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
- 4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- ★5 Operation sound is measured in an anechoic chamber.

Floor Standing Type

Model		FXL20LVE	FXL25LVE	FXL32LVE	
		kcal/h	2,000	2,500	3,150
★1 Cooling Capacity (19.5°CWB) Btu/h		Btu/h	7,900	9,900	12,500
		kW	2.3	2.9	3.7
★2 Cooling C	apacity (19.0°CWB)	kW	2.2	2.8	3.6
		kcal/h	2,200	2,800	3,400
★3 Heating C	apacity	Btu/h	8,500	10,900	13,600
		kW	2.5	3.2	4.0
Casing Color		•	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)
Dimensions: ((H×W×D)	mm	600×1,000×222	600×1,000×222	600×1,140×222
Coil (Cross	Rows×Stages×Fin Pitch	mm	3×14×1.5	3×14×1.5	3×14×1.5
Fin Coil)	Face Area	m²	0.159	0.159	0.200
	Model	•	D14B20	D14B20	2D14B13
	Туре		Sirocco Fan	Sirocco Fan	Sirocco Fan
Fan	Motor Output × Number of Units	W	15×1	15×1	25×1
	Air Flow Rate (H/L)	m³/min	7/6	7/6	8/6
	All Flow Rate (R/L)	cfm	247/212	247/212	282/212
	Drive		Direct Drive	Direct Drive	Direct Drive
Temperature	Control		Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating
Sound Absort	oing Thermal Insulation Ma	terial	Glass Fiber/ Urethane Foam	Glass Fiber/ Urethane Foam	Glass Fiber/ Urethane Foam
Air Filter			Resin Net (with Mold Resistant)	Resin Net (with Mold Resistant)	Resin Net (with Mold Resistant)
	Liquid Pipes	mm	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)
Piping Connections	Gas Pipes	mm	φ12.7 (Flare Connection)	φ12.7 (Flare Connection)	φ12.7 (Flare Connection)
	Drain Pipe	mm	φ21 O.D (Vinyl Chloride)	φ21 O.D (Vinyl Chloride)	φ21 O.D (Vinyl Chloride)
Machine Wei	ght	kg	25	25	30
★5 Sound Le	vel (H/L)	dBA	35/32	35/32	35/32
Safety Devices		Fuse, Thermal Protector for Fan Motor	Fuse, Thermal Protector for Fan Motor	Fuse, Thermal Protector for Fan Motor	
Refrigerant Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	
Connectable Outdoor Unit			R22 : K or M Series R407C : K or L Series	R22 : K or M Series R407C : K or L Series	R22 : K or M Series R407C : K or L Series
Standard Accessories		Operation Manual, Installation Manual, Insulation for Fitting, Drain Hose, Clamps, Screws, Washers, Level Adjustment Screw.	Operation Manual, Installation Manual, Insulation for Fitting, Drain Hose, Clamps, Screws, Washers, Level Adjustment Screw.	Operation Manual, Installation Manual, Insulation for Fitting, Drain Hose, Clamps, Screws, Washers, Level Adjustment Screw.	
Drawing No.				3D034576A	

Notes:

- $\bigstar 1 \quad \text{Indoor temp.}: 27^{\circ}\text{CDB, } 19.5^{\circ}\text{CWB / outdoor temp.}: 35^{\circ}\text{CDB / Equivalent piping length: } 7.5\text{m, level } 10.5^{\circ}\text{CDB / Equivalent piping length: } 10.5^{\circ}\text{CDB / Equivale$ difference: 0m.
- \star 2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- $\bigstar 3 \quad \text{Indoor temp.}: 20^{\circ}\text{CDB / outdoor temp.}: 7^{\circ}\text{CDB, } 6^{\circ}\text{CWB / Equivalent piping length; } 7.5\text{m, level difference; }$ Om. (Heat pump only)

 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- $\bigstar 5$ Operation sound is measured in an anechoic chamber.

Floor Standing Type

Model			FXL40LVE	FXL50LVE	FXL63LVE
★1 Cooling Capacity (19.5°CWB) kcal/h Btu/h kW		4,000	5,000	6,300	
		Btu/h	15,900	19,900	25,000
		kW	4.7	5.8	7.3
★2 Cooling Capacity (19.0°CWB) kW		4.5	5.6	7.1	
★3 Heating Capacity		4,300	5,400	6,900	
		Btu/h	17,000	21,500	27,300
		5.0	6.3	8.0	
Casing Color			Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)
Dimensions: (HxWxD) mm		600×1,140×222	600×1,420×222	600×1,420×222	
Coil (Cross Fin Coil)	Rows×Stages×Fin Pitch	mm	3×14×1.5	3×14×1.5	3×14×1.5
	Face Area	m²	0.200	0.282	0.282
Fan	Model		2D14B13	2D14B20	2D14B20
	Туре		Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output × Number of Units	W	25x1	35×1	35×1
	Air Flow Rate (H/L)	m³/min	11/8.5	14/11	16/12
		cfm	388/300	494/388	565/424
	Drive		Direct Drive	Direct Drive	Direct Drive
Temperature Control			Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating
Sound Absorbing Thermal Insulation Material			Glass Fiber/ Urethane Foam	Glass Fiber/ Urethane Foam	Glass Fiber/ Urethane Foam
Air Filter			Resin Net (with Mold Resistant)	Resin Net (with Mold Resistant)	Resin Net (with Mold Resistant)
Piping Connections	Liquid Pipes	mm	φ6.4 (Flare Connection)	φ9.5 (Flare Connection)	φ9.5 (Flare Connection)
	Gas Pipes	mm	φ12.7 (Flare Connection)	φ15.9 (Flare Connection)	φ15.9 (Flare Connection)
	Drain Pipe	mm	φ21 O.D (Vinyl Chloride)	φ21 O.D (Vinyl Chloride)	φ21 O.D (Vinyl Chloride)
Machine Weight kg		30	36	36	
★5 Sound Level (H/L) dBA		38/33	39/34	40/35	
Safety Devices			Fuse, Thermal Protector for Fan Motor	Fuse, Thermal Protector for Fan Motor	Fuse, Thermal Protector for Fan Motor
Refrigerant Control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Connectable Outdoor Unit			R22: K or M Series R407C: K or L Series	R22: K or M Series R407C: K or L Series	R22: K or M Series R407C: K or L Series
Standard Accessories			Operation Manual, Installation Manual, Insulation for Fitting, Drain Hose, Clamps, Screws, Washers, Level Adjustment Screw.	Operation Manual, Installation Manual, Insulation for Fitting, Drain Hose, Clamps, Screws, Washers, Level Adjustment Screw.	Operation Manual, Installation Manual, Insulation for Fitting, Drain Hose, Clamps, Screws, Washers, Level Adjustment Screw.
Drawing No.			3D034576A		

Notes:

- $\bigstar 1 \quad \text{Indoor temp.}: 27^{\circ}\text{CDB, } 19.5^{\circ}\text{CWB / outdoor temp.}: 35^{\circ}\text{CDB / Equivalent piping length: } 7.5\text{m, level }$ difference: 0m.
- \star 2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- $\bigstar 3 \quad \text{Indoor temp.}: 20^{\circ}\text{CDB / outdoor temp.}: 7^{\circ}\text{CDB, } 6^{\circ}\text{CWB / Equivalent piping length; } 7.5\text{m, level difference; }$ Om. (Heat pump only)

 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- $\bigstar 5$ Operation sound is measured in an anechoic chamber.

Concealed Floor Standing Type

Model			FXN20LVE	FXN25LVE	FXN32LVE
★1 Cooling Capacity (19.5°CWB) kcal/h Btu/h kW		2,000	2,500	3,150	
		Btu/h	7,900	9,900	12,500
		2.3	2.9	3.7	
★2 Cooling Capacity (19.0°CWB) kW		2.2	2.8	3.6	
★3 Heating Capacity		2,200	2,800	3,400	
		Btu/h	8,500	10,900	13,600
		2.5	3.2	4.0	
Casing Color			Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate
Dimensions: (HxWxD) mm		610×930×220	610×930×220	610×1,070×220	
Coil (Cross Fin Coil)	Rows×Stages×Fin Pitch	mm	3×14×1.5	3×14×1.5	3×14×1.5
	Face Area	m²	0.159	0.159	0.200
Fan	Model		D14B20	D14B20	2D14B13
	Туре		Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output × Number of Units	W	15x1	15×1	25x1
	Air Flow Rate (H/L)	m³/min	7/6	7/6	8/6
		cfm	247/212	247/212	282/212
	Drive		Direct Drive	Direct Drive	Direct Drive
Temperature Control			Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating
Sound Absorbing Thermal Insulation Material			Glass Fiber/ Urethane Foam	Glass Fiber/ Urethane Foam	Glass Fiber/ Urethane Foam
Air Filter			Resin Net (with Mold Resistant)	Resin Net (with Mold Resistant)	Resin Net (with Mold Resistant)
	Liquid Pipes	mm	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)	φ6.4 (Flare Connection)
Piping Connections	Gas Pipes	mm	φ12.7 (Flare Connection)	φ12.7 (Flare Connection)	φ12.7 (Flare Connection)
	Drain Pipe	mm	φ21 O.D (Vinyl Chloride)	φ21 O.D (Vinyl Chloride)	φ21 O.D (Vinyl Chloride)
Machine Weight kg		19	19	23	
★5 Sound Level (H/L) dBA		35/32	35/32	35/32	
Safety Devices			Fuse, Thermal Protector for Fan Motor	Fuse, Thermal Protector for Fan Motor	Fuse, Thermal Protector for Fan Motor
Refrigerant Control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Connectable Outdoor Unit			R22 : K or M Series R407C : K or L Series	R22 : K or M Series R407C : K or L Series	R22 : K or M Series R407C : K or L Series
Standard Accessories			Operation Manual, Installation Manual, Insulation for Fitting, Drain Hose, Clamps, Screws, Washers, Level Adjustment Screw.	Operation Manual, Installation Manual, Insulation for Fitting, Drain Hose, Clamps, Screws, Washers, Level Adjustment Screw.	Operation Manual, Installation Manual, Insulation for Fitting, Drain Hose, Clamps, Screws, Washers, Level Adjustment Screw.
Drawing No.			3D034577A		

Notes:

- $\bigstar 1 \quad \text{Indoor temp.}: 27^{\circ}\text{CDB, } 19.5^{\circ}\text{CWB / outdoor temp.}: 35^{\circ}\text{CDB / Equivalent piping length: } 7.5\text{m, level } 10.5^{\circ}\text{CDB / Equivalent piping length: } 10.5^{\circ}\text{CDB / Equivale$ difference: 0m.
- \star 2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- $\bigstar 3 \quad \text{Indoor temp.}: 20^{\circ}\text{CDB / outdoor temp.}: 7^{\circ}\text{CDB, } 6^{\circ}\text{CWB / Equivalent piping length; } 7.5\text{m, level difference; }$ Om. (Heat pump only)
 4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- $\bigstar 5$ Operation sound is measured in an anechoic chamber.

Specifications Si38-304

Concealed Floor Standing Type

Model		FXN40LVE	FXN50LVE	FXN63LVE	
★1 Cooling Capacity (19.5°CWB) kcal/h Btu/h kW		4,000	5,000	6,300	
		15,900	19,900	25,000	
		4.7	5.8	7.3	
★2 Cooling Ca	apacity (19.0°CWB)	kW	4.5	5.6	7.1
		kcal/h	4,300	5,400	6,900
★3 Heating C	apacity	Btu/h	17,000	21,500	27,300
		kW	5.0	6.3	8.0
Casing Color		•	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate
Dimensions: (H×W×D)	mm	610×1,070×220	610×1,350×220	610×1,350×220
Coil (Cross	Rows×Stages×Fin Pitch	mm	3×14×1.5	3×14×1.5	3×14×1.5
Fin Coil)	Face Area	m²	0.200	0.282	0.282
	Model	•	2D14B13	2D14B20	2D14B20
	Туре		Sirocco Fan	Sirocco Fan	Sirocco Fan
Fan	Motor Output × Number of Units	W	25x1	35×1	35×1
	Air Flow Rate (H/L)	m³/min	11/8.5	14/11	16/12
	All Flow hate (H/L)	cfm	388/300	494/388	565/424
	Drive		Direct Drive	Direct Drive	Direct Drive
Temperature (Control		Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating
Sound Absorb	ing Thermal Insulation Mat	erial	Glass Fiber / Urethane Foam	Glass Fiber / Urethane Foam	Glass Fiber / Urethane Foam
Air Filter			Resin Net (with Mold Resistant)	Resin Net (with Mold Resistant)	Resin Net (with Mold Resistant)
	Liquid Pipes	mm	φ6.4 (Flare Connection)	φ9.5 (Flare Connection)	φ9.5 (Flare Connection)
Piping Connections	Gas Pipes	mm	φ12.7 (Flare Connection)	φ15.9 (Flare Connection)	φ15.9 (Flare Connection)
	Drain Pipe	mm	φ21 O.D (Vinyl Chloride)	φ21 O.D (Vinyl Chloride)	φ21 O.D (Vinyl Chloride)
Machine Weig	ht	kg	23	27	27
★5 Sound Lev	vel (H/L)	dBA	38/33	39/34	40/35
Safety Devices		Fuse, Thermal Protector for Fan Motor	Fuse, Thermal Protector for Fan Motor	Fuse, Thermal Protector for Fan Motor	
Refrigerant Control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Connectable Outdoor Unit			R22 : K or M Series R407C : K or L Series	R22 : K or M Series R407C : K or L Series	R22 : K or M Series R407C : K or L Series
Standard Accessories		Operation Manual, Installation Manual, Insulation for Fitting, Drain Hose, Clamps, Screws, Washers, Level Adjustment Screw.	Operation Manual, Installation Manual, Insulation for Fitting, Drain Hose, Clamps, Screws, Washers, Level Adjustment Screw.	Operation Manual, Installation Manual, Insulation for Fitting, Drain Hose, Clamps, Screws, Washers, Level Adjustment Screw.	
Drawing No.			3D034577A		

Notes:

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- $\bigstar 1 \quad \text{Indoor temp.}: 27^{\circ}\text{CDB, } 19.5^{\circ}\text{CWB / outdoor temp.}: 35^{\circ}\text{CDB / Equivalent piping length: } 7.5\text{m, level } 10.5^{\circ}\text{CDB / Equivalent piping length: } 10.5^{\circ}\text{CDB / Equivale$ difference: 0m.
- \star 2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- $\bigstar 3 \quad \text{Indoor temp.}: 20^{\circ}\text{CDB / outdoor temp.}: 7^{\circ}\text{CDB, } 6^{\circ}\text{CWB / Equivalent piping length; } 7.5\text{m, level difference; }$ 0m. (Heat pump only)
 4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- $\bigstar 5$ Operation sound is measured in an anechoic chamber.

Conversion Formulae kcal/h=kW×860 Btu/h=kW×3414 cfm=m³/min×35.3

Part 3 Refrigerant Circuit

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Refrigerant Circuit Si38-304

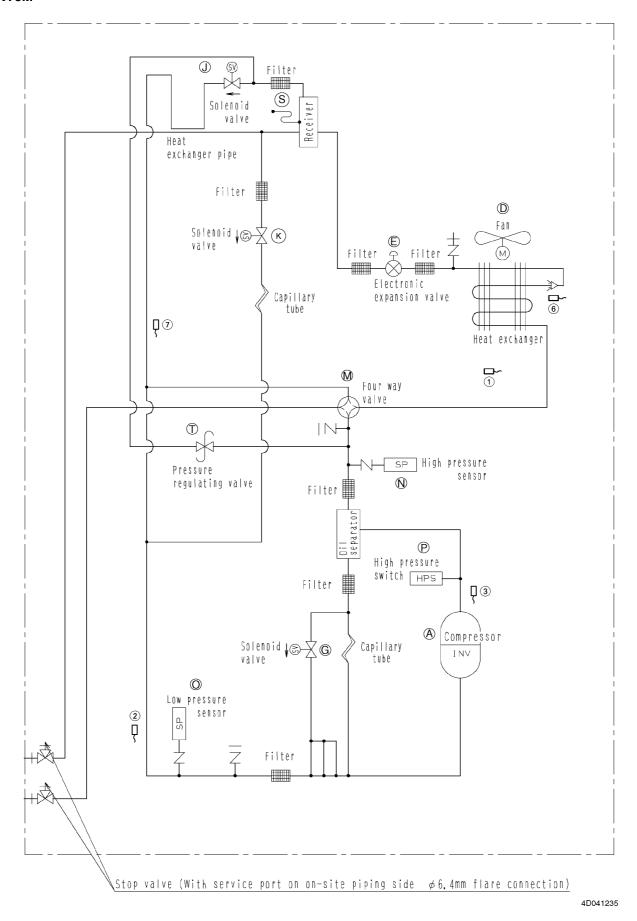
1. Refrigerant Circuit

1.1 **RXY5M**

No. in refrigerant system diagram	Symbol	Name	Major Function
А	M1C	Inverter compressor (INV)	Inverter compressor is operated on frequencies between 52 Hz and 210 Hz by using the inverter. The number of operating steps is as follows when Inverter compressor is operated. RXY5M: 20 steps
D	M1F	Inverter fan	Since the system is of air heat exchanging type, the fan is operated at 8-step rotation speed by using the inverter.
Е	Y1E	Electronic expansion valve (Main: EV1)	While in heating operation, PI control is applied to keep the outlet superheated degree of air heat exchanger constant.
G	Y1S	Solenoid valve (Hot gas: SVP)	Used to prevent the low pressure from transient falling.
J	Y2S	Solenoid valve (Receiver gas discharging: SVG)	Used to collect refrigerant to receiver.
K	Y4S	Solenoid valve (Injection):SVT	Used to control injection in order to prevent overheating.
М	Y3S	4-way valve	Used to switch the operation mode between cooling and heating.
N	S1NPH	High pressure sensor	Used to detect high pressure.
0	S1NPL	Low pressure sensor	Used to detect low pressure.
Р	S1PH	HP pressure switch (For INV compressor)	In order to prevent the increase of high pressure when a malfunction occurs, this switch is activated at high pressure of 2.7 MPA or more to stop the compressor operation.
S	_	Fusible plug	In order to prevent the increase of pressure when abnormal heating is caused by fire or others, the fusible part of the plug is molten at a temperature of 70 to 75°C to release the pressure into the atmosphere.
Т	_	Pressure regulating valve 1 (Receiver to discharge pipe)	This valve opens at a pressure of 1.5 to 2.0 MPa for prevention of pressure increase, thus resulting in no damage of functional parts due to the increase of pressure in transportation or storage.
1	R1T	Thermistor (Outdoor air: Ta)	Used to detect outdoor temperature, correct discharge pipe temperature, and others.
2	R2T	Thermistor (Suction pipe: Ts)	used to detect suction pipe temperature, keep the suction superheated degree constant in heating operation, and others.
3	R31T	Thermistor (INV discharge pipe: Tdi)	used to detect discharge pipe temperature, make the temperature protection control of compressor, and others.
6	R4T	Thermistor (Heat exchanger deicer: Tb)	Used to detect liquid pipe temperature of air heat exchanger, determine defrosting operation, and others.
7	R5T	Thermistor (Receiver gas pipe: Tsh)	Used to detect receiver gas pipe temperature in order to check the receiver to fill with liquid refrigerant.

Si38-304 Refrigerant Circuit

RXY5M



Refirgerant Circuit 65

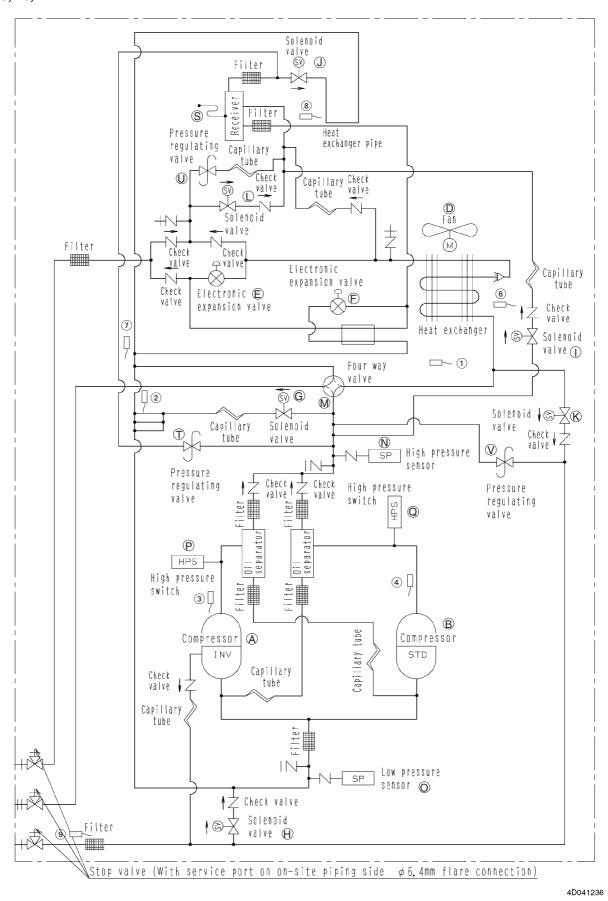
Refrigerant Circuit Si38-304

1.2 RXY8, 10, 12M

No. in refrigerant system diagram	Symbol	Name	Major Function	
A	M1C	Inverter compressor (INV)	Inverter compressor is operated on frequencies between 52 Hz and 210 Hz by using	
В	M2C	Standard compressor 1 (STD1)	the inverter, while Standard compressor is operated with commercial power supply only. The number of operating steps is as follows when Inverter compressor is operated in combination with Standard compressor. RXY8, 10, 12M: 29 steps	
D	M1F	Inverter fan	Since the system is of air heat exchanging type, the fan is operated at 8-step rotation speed by using the inverter.	
Е	Y1E	Electronic expansion valve (Main: EV1)	While in heating operation, PI control is applied to keep the outlet superheated degree of air heat exchanger constant.	
F	Y2E	Electronic expansion valve (Subcool: EV2)	PI control is applied to keep the outlet superheated degree of subcooling heat exchanger constant.	
G	Y1S	Solenoid valve (Hot gas: SVP)	Used to prevent the low pressure from transient falling.	
Н	Y2S	Solenoid valve (Oil equalization: SVO)	Used for oil equalizing among outdoor units in multiple-outdoor-unit system.	
I	Y3S	Solenoid valve (Receiver gas charging: SVL)	Used to maintain high pressure while in cooling operation at low outdoor temperature. And also used to prevent the accumulation of refrigerant in non-operating outdoor units in the case of multiple-outdoor-unit system.	
J	Y4S	Solenoid valve (Receiver gas discharging: SVG)	Used to collect refrigerant to receiver.	
K	Y5S	Solenoid valve (Non-operating unit gas discharging SVSG)	Used to prevent the accumulation of refrigerant in non-operating outdoor units in the case of multiple-outdoor-unit system.	
L	Y6S	Solenoid valve Non-operating unit liquid pipe closing: SVSL)	Used to prevent the accumulation of refrigerant in non-operating outdoor units in the case of multi-outdoor unit system.	
М	Y7S	4-way valve	Used to switch the operation mode between cooling and heating.	
N	S1NPH	High pressure sensor	Used to detect high pressure.	
0	S1NPL	Low pressure sensor	Used to detect low pressure.	
Р	S1PH	HP pressure switch (For INV compressor)	In order to prevent the increase of high pressure when a malfunction occurs, this	
Q	S2PH	HP pressure switch (For STD compressor 2)	switch is activated at high pressure of 2.7 MPa or more to stop the compressor operation.	
S	_	Fusible plug	In order to prevent the increase of pressure when abnormal heating is caused by fire or others, the fusible part of the plug is molten at a temperature of 70 to 75°C to release the pressure into the atmosphere.	
Т	1	Pressure regulating valve 1 (Receiver to discharge pipe)		
U	l	Pressure regulating valve 2 (Liquid pipe to receiver)	This valve opens at a pressure of 1.5 to 2.0 MPa for prevention of pressure increase, thus resulting in no damage of functional parts due to the increase of pressure in	
V	_	Pressure regulating valve 3 (Equalizing pipe to discharge pipe)	transportation or storage.	
1	R1T	Thermistor (Outdoor air: Ta)	Used to detect outdoor temperature, correct discharge pipe temperature, and others.	
2	R2T	Thermistor (Suction pipe: Ts)	used to detect suction pipe temperature, keep the suction superheated degree constant in heating operation, and others.	
3	R31T	Thermistor (INV discharge pipe: Tdi)	used to detect discharge pipe temperature, make the temperature protection control of	
4	R32T	Thermistor (STD1 discharge pipe: Tds1)	compressor, and others.	
6	R4T	Thermistor (Heat exchanger deicer: Tb)	Used to detect liquid pipe temperature of air heat exchanger, determine defrosting operation, and others.	
7	R5T	Thermistor (Subcooling heat exchanger gas pipe: Tsh)	Used to detect gas pipe temperature on the evaporation side of subcooling heat exchanger, keep the superheated degree at the outlet of subcooling heat exchanger constant, and others.	
8	R6T	Thermistor (Receiver outlet liquid pipe: TI)	Used to detect receiver outlet liquid pipe temperature, prevent the drift between outdoor units while in heating operation in the case of multiple-outdoor-unit system, and others.	
9	R7T	Thermistor (Oil equalizing pipe: To)	Used to detect equalizing pipe temperature, opening/closing of the equalizing pipe stop valve, and others.	

Si38-304 Refrigerant Circuit

RXY8, 10, 12M



Refirgerant Circuit 67

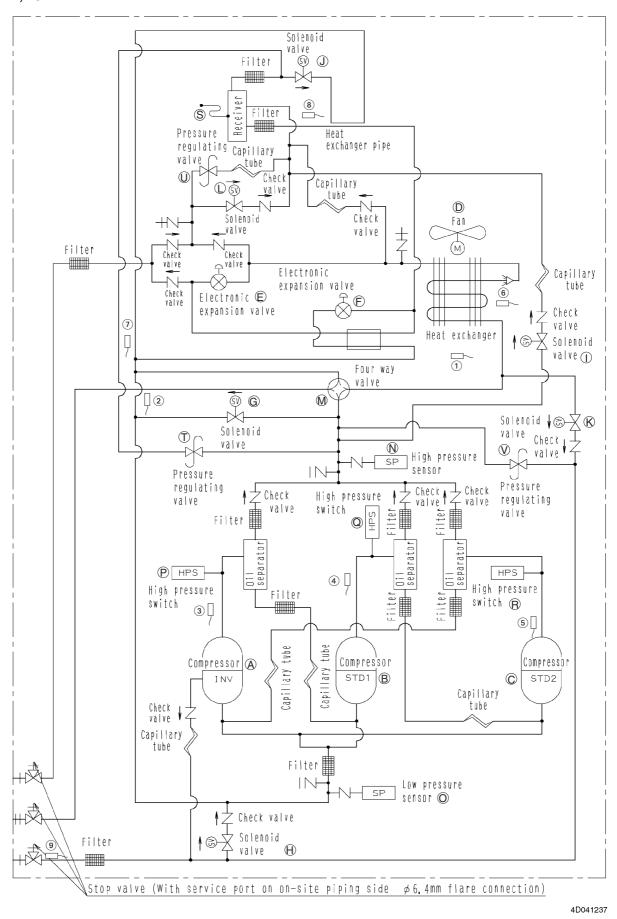
Refrigerant Circuit Si38-304

1.3 RXY14, 16M

	1			
No. in refrigerant system diagram	Symbol	Name	Major Function	
Α	M1C	Inverter compressor (INV)	Inverter compressor is operated on frequencies between 52 Hz and 210 Hz by using	
В	M2C	Standard compressor 1 (STD1)	the inverter, while Standard compressor is operated with commercial power supply only. The number of operating steps is as follows when Inverter compressor is operated in combination with Standard compressor. RXY14, 16M: 35 steps	
С	МЗС	Standard compressor 1 (STD2)		
D	M1F	Inverter fan	Since the system is of air heat exchanging type, the fan is operated at 8-step rotation speed by using the inverter.	
Е	Y1E	Electronic expansion valve (Main: EV1)	While in heating operation, PI control is applied to keep the outlet superheated degree of air heat exchanger constant.	
F	Y2E	Electronic expansion valve (Subcool: EV2)	PI control is applied to keep the outlet superheated degree of subcooling heat exchanger constant.	
G	Y1S	Solenoid valve (Hot gas: SVP)	Used to prevent the low pressure from transient falling.	
Н	Y2S	Solenoid valve (Oil equalization: SVO)	Used for oil equalizing among outdoor units in multiple-outdoor-unit system.	
I	Y3S	Solenoid valve (Receiver gas charging: SVL)	Used to maintain high pressure while in cooling operation at low outdoor temperature. And also used to prevent the accumulation of refrigerant in non-operating outdoor units in the case of multiple-outdoor-unit system.	
J	Y4S	Solenoid valve (Receiver gas discharging: SVG)	Used to collect refrigerant to receiver.	
K	Y5S	Solenoid valve (Non-operating unit gas discharging SVSG)	Used to prevent the accumulation of refrigerant in non-operating outdoor units in the case of multiple-outdoor-unit system.	
L	Y6S	Solenoid valve Non-operating unit liquid pipe closing: SVSL)	Used to prevent the accumulation of refrigerant in non-operating outdoor units in the case of multi-outdoor unit system.	
М	Y7S	4-way valve	Used to switch the operation mode between cooling and heating.	
N	S1NPH	High pressure sensor	Used to detect high pressure.	
0	S1NPL	Low pressure sensor	Used to detect low pressure.	
Р	S1PH	HP pressure switch (For INV compressor)		
Q	S2PH	HP pressure switch (For STD compressor 2)	In order to prevent the increase of high pressure when a malfunction occurs, this switch is activated at high pressure of 2.7 MPa or more to stop the compressor operation.	
R	S3PH	HP pressure switch (For STD compressor 1)	Sportation.	
S		Fusible plug	In order to prevent the increase of pressure when abnormal heating is caused by fire or others, the fusible part of the plug is molten at a temperature of 70 to 75°C to release the pressure into the atmosphere.	
Т	_	Pressure regulating valve 1 (Receiver to discharge pipe)		
U	_	Pressure regulating valve 2 (Liquid pipe to receiver)	This valve opens at a pressure of 1.5 to 2.0 MPa for prevention of pressure increase, thus resulting in no damage of functional parts due to the increase of pressure in	
V	l	Pressure regulating valve 3 (Equalizing pipe to discharge pipe)	transportation or storage.	
1	R1T	Thermistor (Outdoor air: Ta)	Used to detect outdoor temperature, correct discharge pipe temperature, and others.	
2	R2T	Thermistor (Suction pipe: Ts)	used to detect suction pipe temperature, keep the suction superheated degree constant in heating operation, and others.	
3	R31T	Thermistor (INV discharge pipe: Tdi)		
4	R32T	Thermistor (STD1 discharge pipe: Tds1)	used to detect discharge pipe temperature, make the temperature protection control of compressor, and others.	
5	R33T	Thermistor (STD2 discharge pipe: Tds2)		
6	R4T	Thermistor (Heat exchanger deicer: Tb)	Used to detect liquid pipe temperature of air heat exchanger, determine defrosting operation, and others.	
7	R5T	Thermistor (Subcooling heat exchanger gas pipe: Tsh)	Used to detect gas pipe temperature on the evaporation side of subcooling heat exchanger, keep the superheated degree at the outlet of subcooling heat exchanger constant, and others.	
8	R6T	Thermistor (Receiver outlet liquid pipe: TI)	Used to detect receiver outlet liquid pipe temperature, prevent the drift between outdoor units while in heating operation in the case of multiple-outdoor-unit system, and others.	
9	R7T	Thermistor (Oil equalizing pipe: To)	Used to detect equalizing pipe temperature, opening/closing of the equalizing pipe stop valve, and others.	

Si38-304 Refrigerant Circuit

RXY14, 16M



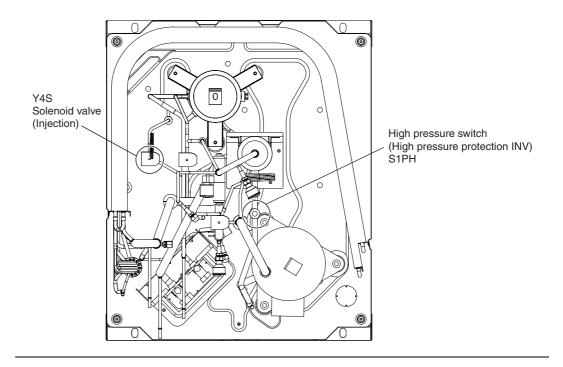
Refirgerant Circuit 69

Functional Parts Layout Si38-304

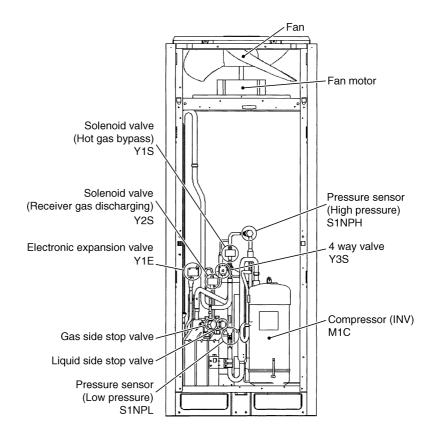
2. Functional Parts Layout

2.1 **RXY5M**

Plan

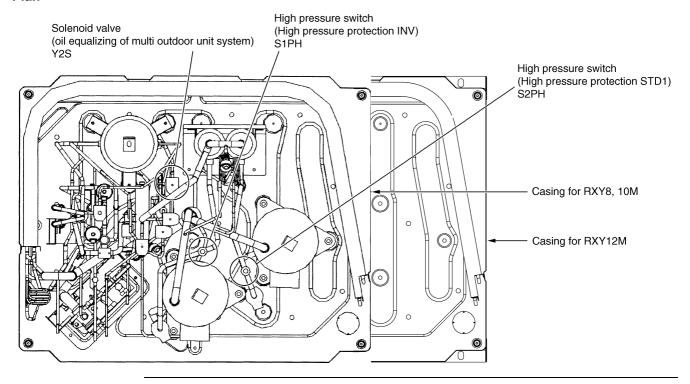


Front View

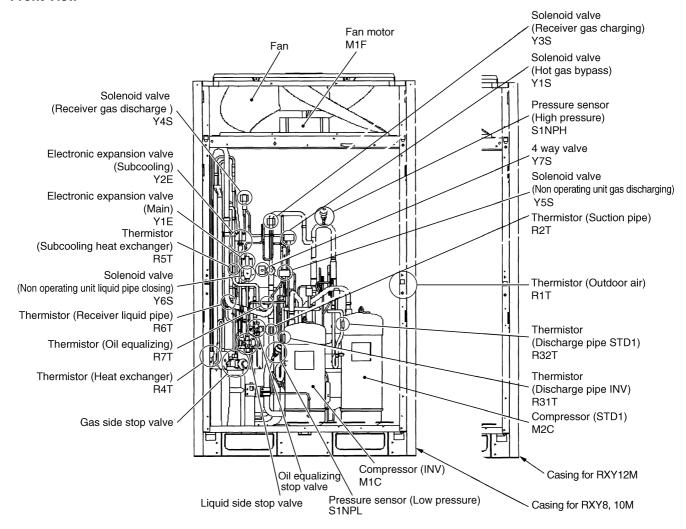


2.2 RXY8, 10, 12M

Plan



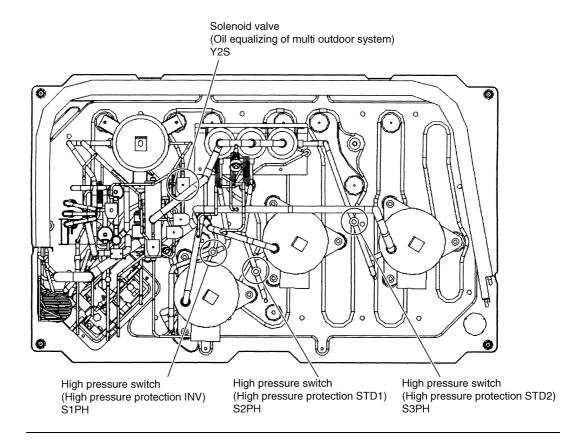
Front View



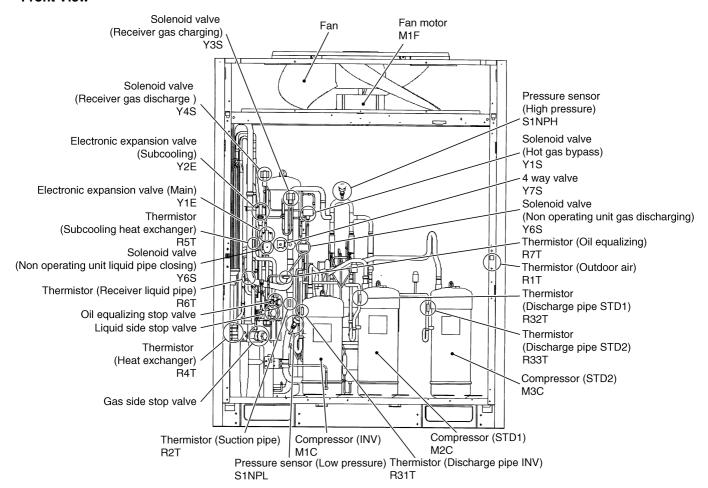
Functional Parts Layout Si38-304

2.3 RXY14, 16M

Plan



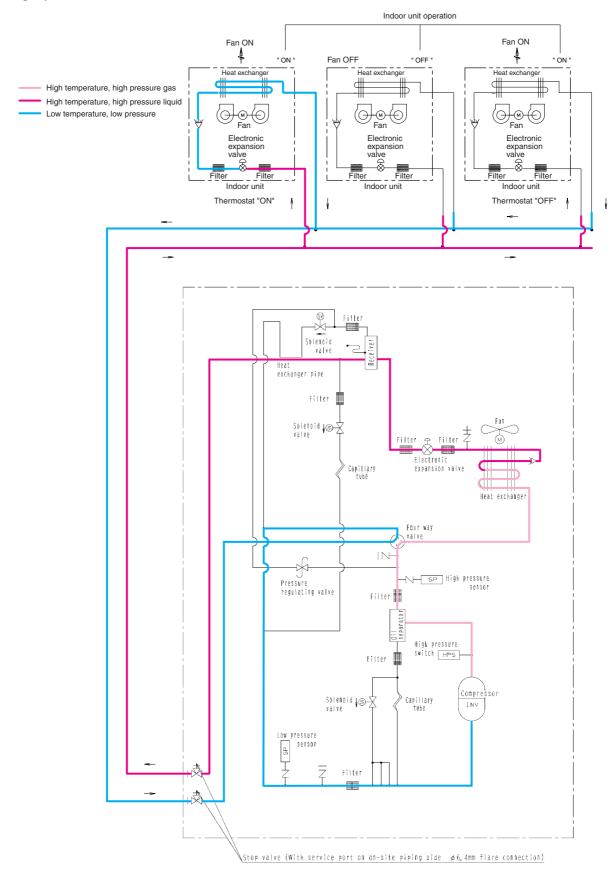
Front View



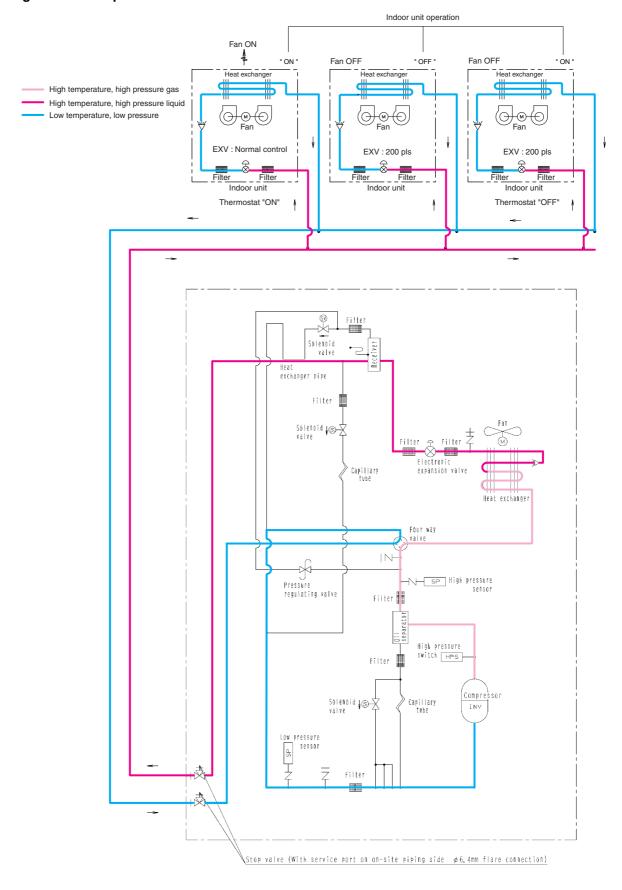
3. Refrigerant Flow for Each Operation Mode

RXY5M

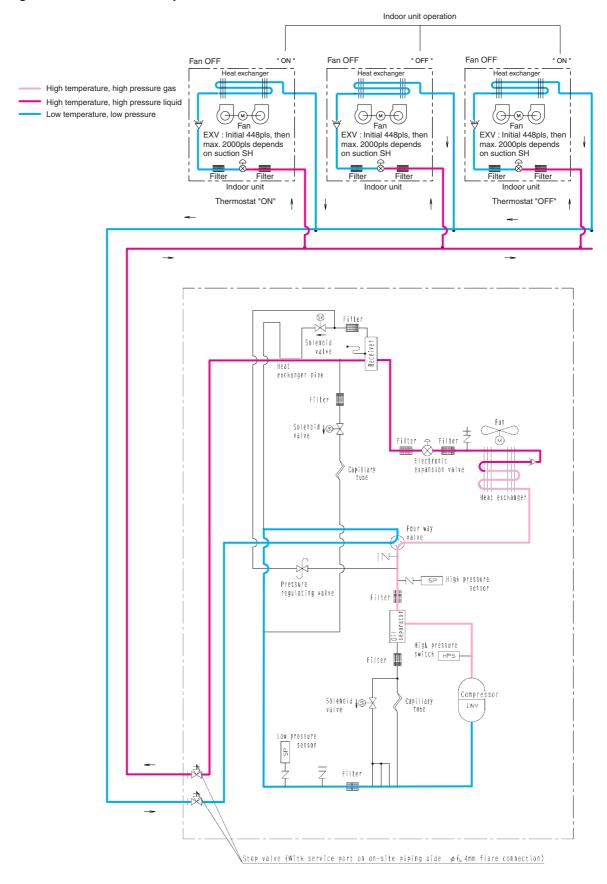
Cooling Operation



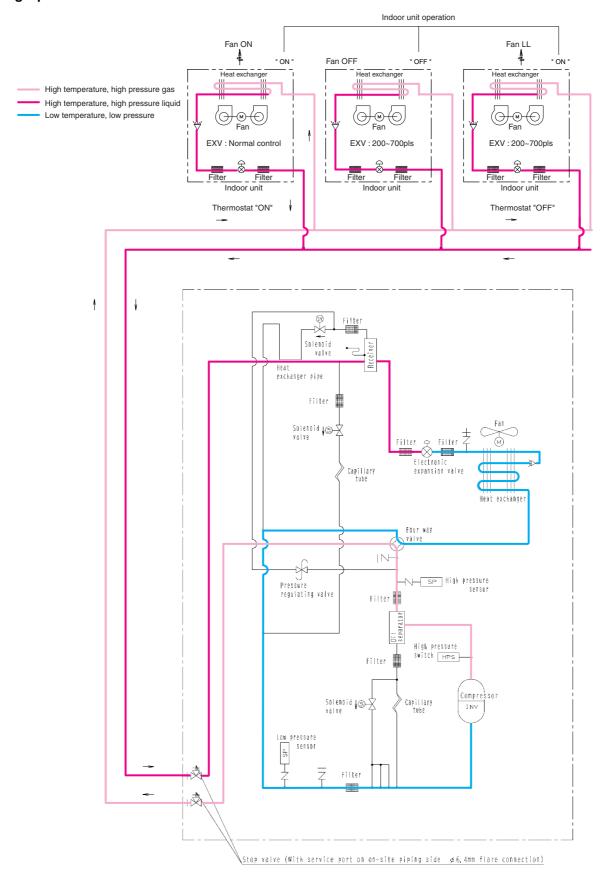
Cooling Oil Return Operation



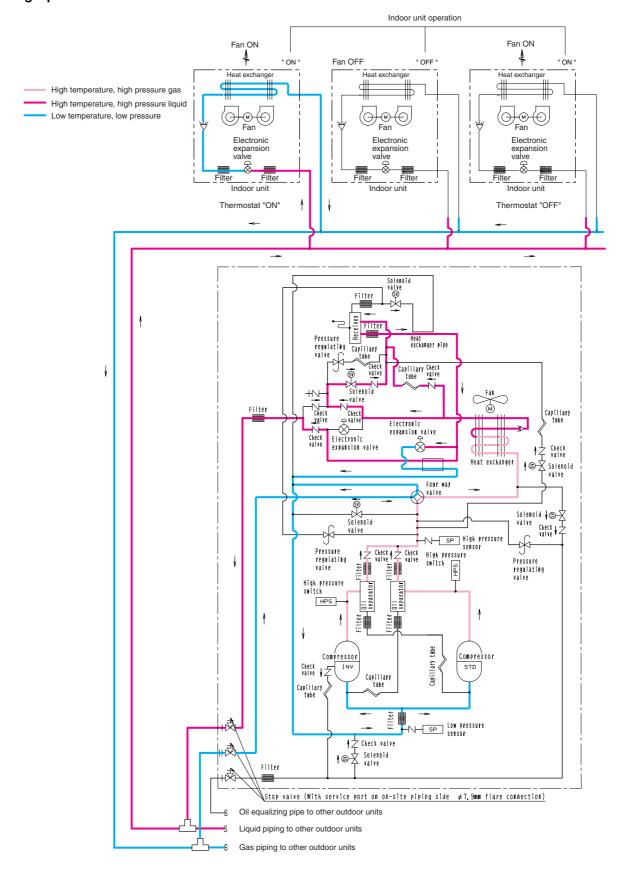
Heating Oil Return & Defrost Operation



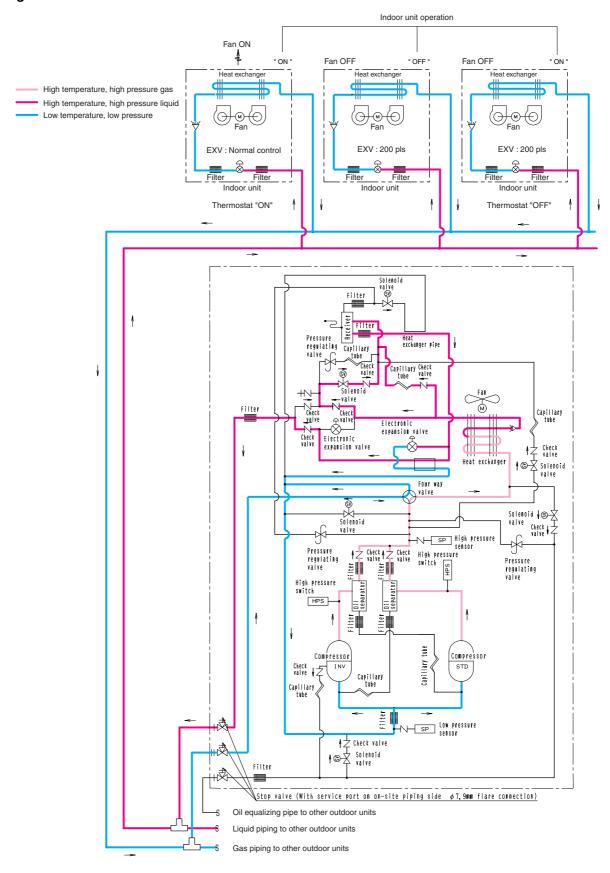
Heating Operation



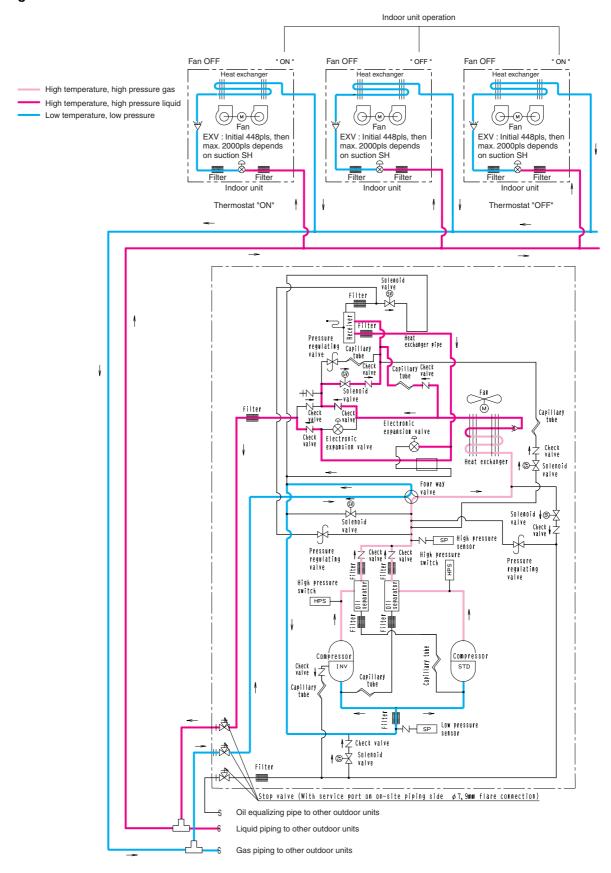
RXY8, 10, 12M Cooling Operation



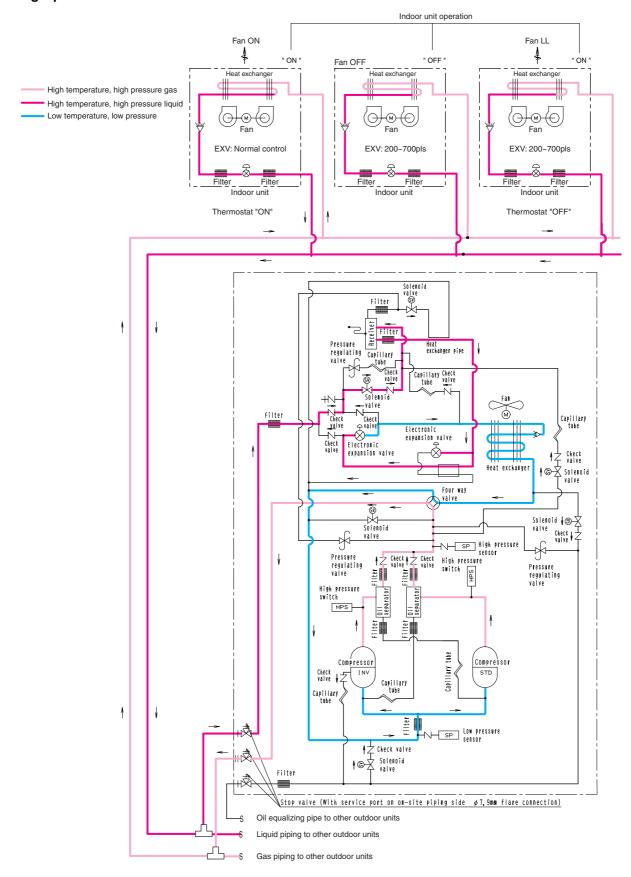
Cooling Oil Return



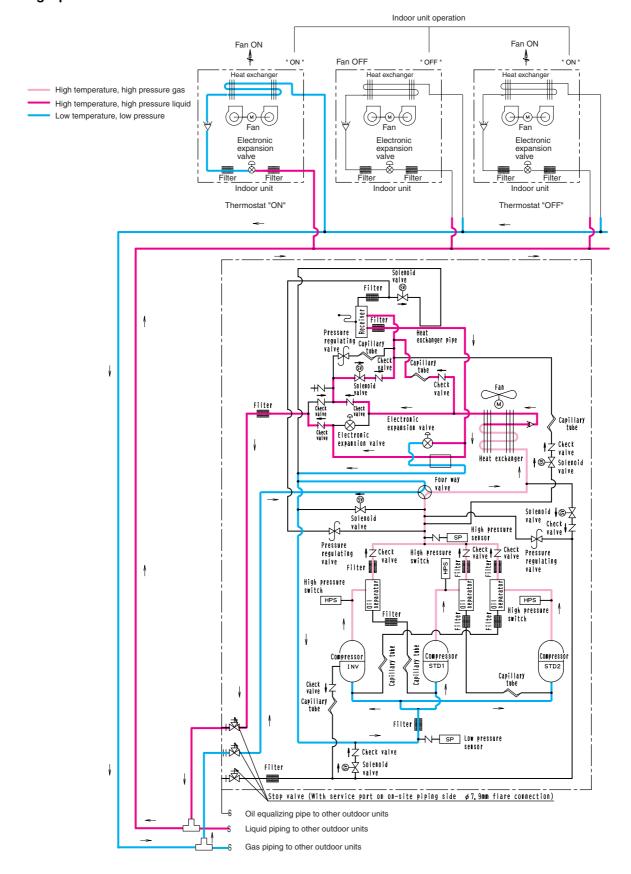
Heating Oil Return & Defrost



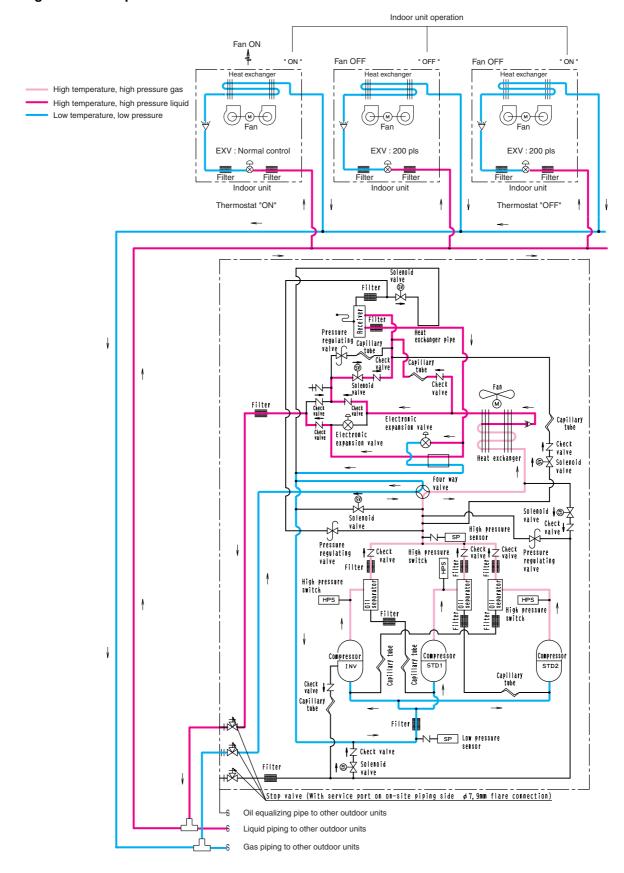
Heating Operation



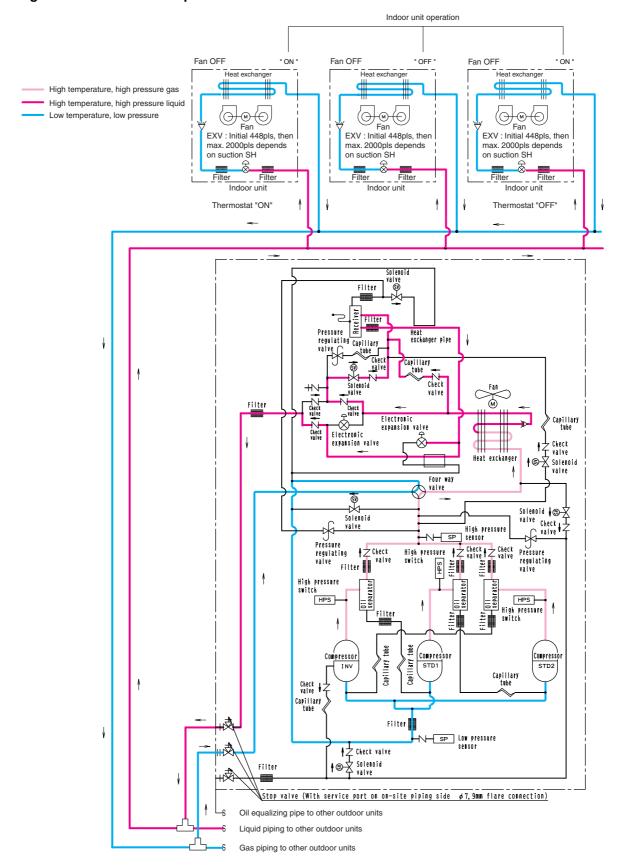
RXY14, 16M Cooling Operation



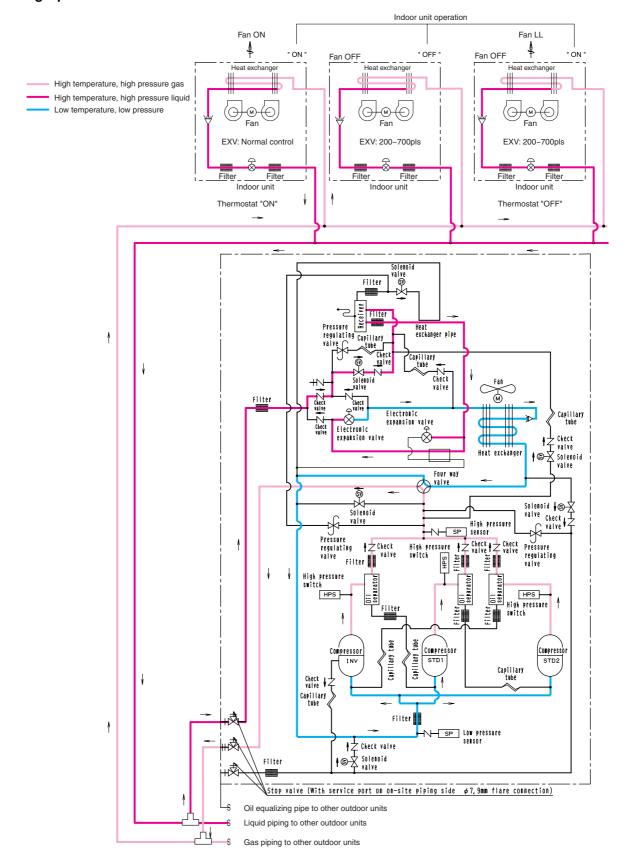
Cooling Oil Return Operation



Heating Oil Return & Defrost Operation



Heating Operation

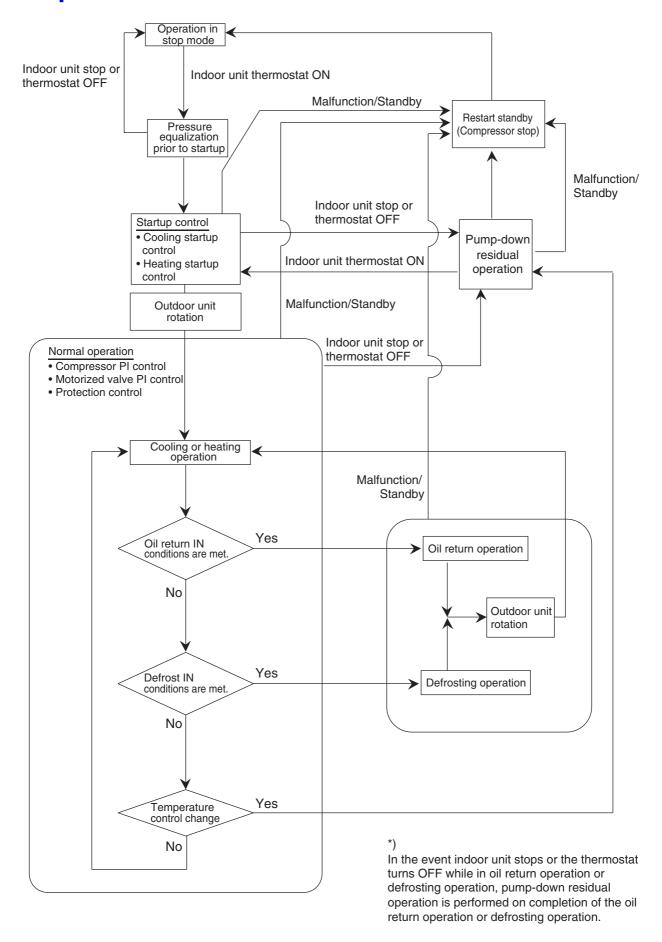


Part 4 Function

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2.	Basi	c Control	87
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Operation Mode Si38-304

1. Operation Mode



Si38-304 Basic Control

2. Basic Control

2.1 Normal Operation

■ Cooling Operation

Actuator	Operation	Remarks
Compressor	Compressor PI control	Used for high pressure protection control, low pressure protection control, discharge pipe temperature protection control, and compressor operating frequency upper limit control with inverter protection control.
Outdoor unit fan	Cooling fan control	_
Four way valve	OFF	_
Main motorized valve (EV1)	0 pls	— (RX(Y)5M : 2000pls)
Subcooling motorized valve (EV2)	PI control	_
Hot gas bypass valve (SVP)	OFF	This valve turns on with low pressure protection control.
Oil equalization valve (SVO)	ON	In the case of multi-outdoor-unit system, this valve repeats ON/OFF operation at regular intervals of time.
Receiver gas charging valve (SVL)	OFF	This valve turns on when outdoor temperature is low.
Receiver gas discharging valve (SVG)	OFF	_
Non-operating unit gas discharging valve (SVSG)	OFF	_
Non-operating unit liquid pipe stop valve (SVSL)	ON	-

■ Heating Operation

■ Heating Operation				
Actuator	Operation	Remarks		
Compressor	Compressor PI control	Used for high pressure protection control, low pressure protection control, discharge pipe temperature protection control, and compressor operating frequency upper limit control with inverter protection control.		
Outdoor unit fan	STEP8 or 9	_		
Four way valve	ON	_		
Main motorized valve (EV1)	PI control	_		
Subcooling motorized valve (EV2)	0 pls	_		
Hot gas bypass valve (SVP)	OFF	This valve turns on with low pressure protection control.		
Oil equalization valve (SVO)	ON	In the case of multi-outdoor-unit system, this valve repeats ON/OFF operation at regular intervals of time.		
Receiver gas charging valve (SVL)	OFF	_		
Receiver gas discharging valve (SVG)	OFF	_		
Non-operating unit gas discharging valve (SVSG)	OFF	_		
Non-operating unit liquid pipe stop valve (SVSL)	ON	_		

[★]Heating operation is not functional at an outdoor air temperature of 25°C or more.

Basic Control Si38-304

2.2 Compressor PI Control

Compressor PI Control

Carries out the compressor capacity PI control to maintain Te at constant during cooling operation and Tc at constant during heating operation to ensure stable unit performance.

[Cooling operation]

Controls compressor capacity to adjust Te to achieve target value (TeS).

Te setting

L	M (Normal) (factory setting)	H	
3	6	9	

Te : Low pressure equivalent saturation temperature (°C)

TeS: Target Te value (Varies depending on Te setting, operating frequency, etc.)

[Heating operation]

Controls compressor capacity to adjust Tc to achieve target value (TcS).

Tc setting

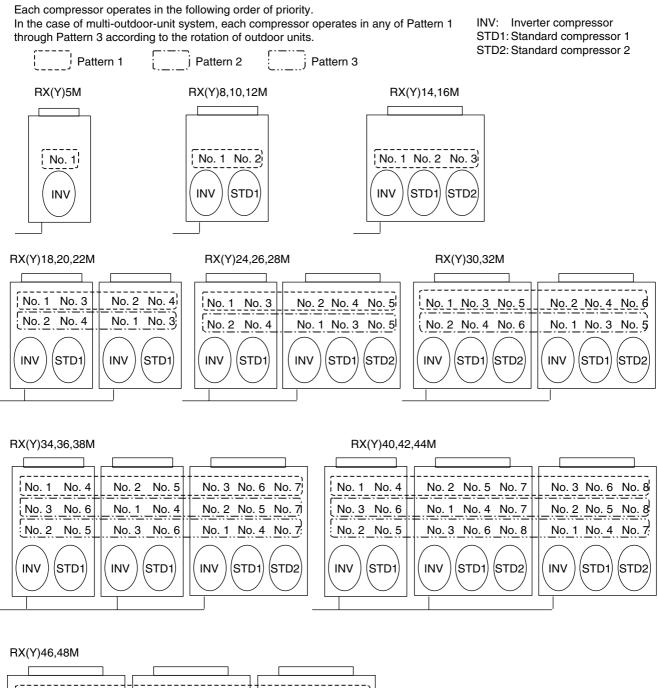
•		
L	M (Normal) (factory setting)	Н
43	46	49

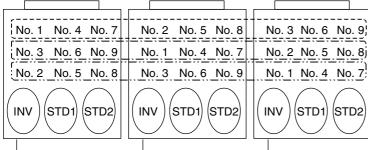
Tc : High pressure equivalent saturation temperature (°C)

TcS: Target Tc value (Varies depending on Tc setting, operating frequency, etc.)

Si38-304 Basic Control

Compressor Operating Priority





- In the case of combination of 3 outdoor units, the above diagram shows master unit, slave unit 1, and slave unit 2
 from left to right.
- Compressors may operate in any pattern other than those mentioned above according to the operating status.

Basic Control Si38-304

RX(Y)5M

` '	
STEP	INV
1	52Hz
2	57Hz
3	62Hz
4	68Hz
5	74Hz
6	81Hz
7	88Hz
8	96Hz
9	104Hz
10	110Hz
11	116Hz
12	124Hz
13	133Hz
14	143Hz
15	158Hz
16	165Hz
17	177Hz
18	189Hz
19	202Hz
20	210Hz

RX(Y)8,10,12M

11/1(1)0,10,12111			
STEP	INV	STD1	
1	52Hz	OFF	
<u>2</u> 3	57Hz	OFF	
3	62Hz	OFF OFF	
4	68Hz	OFF	
5 6	74Hz	OFF	
	81Hz	OFF	
7	88Hz	OFF	
8	96Hz	OFF	
9	104Hz	OFF OFF OFF	
10	110Hz	OFF	
11	116Hz	OFF	
12	124Hz	OFF	
13	133Hz	OFF	
14	143Hz	OFF	
14 15 16	158Hz	OFF OFF	
16	165Hz	OFF	
17	177Hz	OFF	
18	189Hz 202Hz	OFF	
19	202Hz	OFF	
20	210Hz	OFF	
21 22	52Hz	ON	
22	74Hz	ON	
23	96Hz	ON	
24	116Hz	ON	
23 24 25 26	133Hz	ON ON ON	
26	158Hz	ON	
27	177Hz	ON	
28	202Hz	ON	
29	210Hz	ON	
<u> </u>		•	

RX(Y)14,16M

, ,			
STEP	INV	STD1	STD2
1	52Hz	OFF	OFF
3	57Hz	OFF	OFF
3	62Hz	OFF	OFF
4	68Hz	OFF	OFF
5	74Hz	OFF	OFF
6	81Hz	OFF	OFF
7	88Hz	OFF	OFF
8	96Hz	OFF	OFF
9	104Hz	OFF	OFF
10	110Hz	OFF	OFF
11	116Hz	OFF	OFF
12	124Hz	OFF	OFF
13	133Hz	OFF	OFF
14	143Hz	OFF	OFF
15	158Hz	OFF	OFF
16	165Hz	OFF	OFF
17	177Hz	OFF	OFF
18	189Hz	OFF	OFF
19	202Hz	OFF	OFF
20	210Hz	OFF	OFF
21	52Hz	ON	OFF
22	74Hz	ON	OFF
23	96Hz	ON	OFF
24	116Hz	ON	OFF
25	133Hz	ON	OFF
26	158Hz	ON	OFF
27	177Hz	ON	OFF
28	189Hz	ON	OFF
29	52Hz	ON	ON
30	88Hz	ON	ON
31	124Hz	ON	ON
32	158Hz	ON	ON
33	189Hz	ON	ON

RX(Y)18,20,22M

STEP	Master unit INV	Slave unit INV	STD unit No.1	STD unit No.2
1	52Hz	OFF	OFF	OFF
2	57Hz	OFF	OFF	OFF
3	62Hz	OFF	OFF	OFF
4	68Hz	OFF	OFF	OFF
5	74Hz	OFF	OFF	OFF
6	81Hz	OFF	OFF	OFF
7	88Hz	OFF	OFF	OFF
8	96Hz	OFF	OFF	OFF
9	104Hz	OFF	OFF	OFF
10	110Hz	OFF	OFF	OFF
11	116Hz	OFF	OFF	OFF
12	124Hz	OFF	OFF	OFF
13	133Hz	ÖFF	OFF	OFF
14	143Hz	OFF	OFF	OFF
15	158Hz	OFF	OFF	OFF
16	165Hz	ÖFF	OFF	OFF
17	177Hz	ÖFF	ÖFF	ÖFF
18	189Hz	OFF	OFF	OFF
19	202Hz	ÖFF	OFF	OFF
20	210Hz	ÖFF	ÖFF	ÖFF
21 22	52Hz	189Hz	OFF OFF	OFF OFF
23	74Hz 96Hz	189Hz 189Hz	OFF	OFF
23	96HZ 116Hz	189Hz	OFF	OFF
25	133Hz	189Hz	OFF	OFF
25 26	158Hz	189Hz	OFF	OFF
27	177Hz	189Hz	OFF	OFF
28	202Hz	189Hz	OFF	OFF
<u>28</u>	2020Z	189Hz	OFF	OFF
30	52Hz	189Hz	ON	OFF
31	88Hz	189Hz	ON	OFF
32	124Hz	189Hz	ON	OFF
33	158Hz	189Hz	ON	OFF
34	189Hz	189Hz	ON	OFF
35	210Hz	189Hz	ON	OFF
36	52Hz	189Hz	ON	ON
37	88Hz	189Hz	ON	ON
38	124Hz	189Hz	ON	ON
39	158Hz	189Hz	ON	ON
40	189Hz	189Hz	ON	ON
41	210Hz	189Hz	ON	ON

RX(Y)24,26,28M

1 52Hz OFF OFF OFF OFF OFF OFF OFF OFF OFF OF	STEP	Master unit	Slave unit	STD unit	STD unit	STD unit
2 57Hz OFF OFF OFF OFF OFF OFF OFF OFF OFF OF		INV	INV	No.1	No.2	No.3
3						
4						
5 74Hz OFF OFF OFF OFF 6 81Hz OFF OFF OFF OFF OFF 7 88Hz OFF OFF OFF OFF OFF OFF 8 96Hz OFF OFF OFF OFF OFF OFF 9 104Hz OFF OFF OFF OFF OFF OFF 10 110Hz OFF OFF OFF OFF OFF OFF 10 110Hz OFF						
6 81Hz OFF OFF OFF OFF OFF OFF OFF OFF OFF OF						
T						
8 96Hz OFF OFF OFF OFF 9 104Hz OFF OFF OFF OFF 10 110Hz OFF OFF OFF OFF 11 116Hz OFF OFF OFF OFF 12 124Hz OFF OFF OFF OFF 13 133Hz OFF OFF OFF OFF 14 143Hz OFF OFF OFF OFF 15 158Hz OFF OFF OFF OFF 16 165Hz OFF OFF OFF OFF 18 189Hz OFF OFF OFF OFF 19 202Hz OFF OFF OFF OFF OFF 20 210Hz OFF OFF OFF OFF OFF 21 52Hz 189Hz OFF OFF OFF OFF 22 74Hz 189Hz <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
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10						
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15						
16 165Hz OFF OFF OFF OFF 17 177Hz OFF OFF OFF OFF OFF 18 189Hz OFF OFF OFF OFF OFF 19 202Hz OFF OFF OFF OFF OFF 20 210Hz OFF OFF OFF OFF OFF 21 52Hz 189Hz OFF OFF OFF OFF 21 52Hz 189Hz OFF OFF OFF OFF 23 96Hz 189Hz OFF OFF OFF OFF 24 116Hz 189Hz OFF OFF OFF OFF 25 133Hz 189Hz OFF OFF OFF OFF 26 158Hz 189Hz OFF OFF OFF OFF 27 177Hz 189Hz OFF OFF OFF OFF 28 202Hz <td></td> <td></td> <td></td> <td></td> <td></td> <td>OFF</td>						OFF
17				OFF	OFF	OFF
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19	17	177Hz	OFF	OFF	OFF	OFF
19	18	189Hz	OFF	OFF	OFF	OFF
21 52Hz 189Hz OFF OFF OFF 22 74Hz 189Hz OFF OFF OFF 23 96Hz 189Hz OFF OFF OFF 24 116Hz 189Hz OFF OFF OFF 25 133Hz 189Hz OFF OFF OFF 26 158Hz 189Hz OFF OFF OFF 26 158Hz 189Hz OFF OFF OFF 28 202Hz 189Hz OFF OFF OFF 28 202Hz 189Hz OFF OFF OFF 29 210Hz 189Hz ON OFF OFF 30 52Hz 189Hz ON OFF OFF 31 88Hz 189Hz ON OFF OFF 32 124Hz 189Hz ON OFF OFF 33 158Hz 189Hz ON OFF O	19	202Hz	OFF	OFF	OFF	OFF
22	20	210Hz	OFF	OFF	OFF	OFF
22	21	52Hz	100Ц-	OEE	OEE	OEE
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26 158Hz 189Hz OFF OFF OFF 27 177Hz 189Hz OFF OFF OFF OFF 28 202Hz 189Hz OFF OFF OFF OFF 29 210Hz 189Hz ON OFF OFF OFF 30 52Hz 189Hz ON OFF OFF OFF 31 88Hz 189Hz ON OFF OFF OFF 32 124Hz 189Hz ON OFF OFF OFF 33 158Hz 189Hz ON OFF OFF OFF 34 189Hz 189Hz ON OFF OFF OFF 35 210Hz 189Hz ON OFF OFF OFF 36 52Hz 189Hz ON ON OFF OFF 37 88Hz 189Hz ON ON OFF 38 124Hz 189Hz <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
27						
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32						
33 158Hz 189Hz ON OFF OFF 34 189Hz 189Hz ON OFF OFF 35 210Hz 189Hz ON OFF OFF 35 210Hz 189Hz ON OFF OFF 36 52Hz 189Hz ON ON OFF 37 88Hz 189Hz ON ON OFF 38 124Hz 189Hz ON ON OFF 39 158Hz 189Hz ON ON OFF 40 189Hz 189Hz ON ON OFF 41 210Hz 189Hz ON ON OFF 42 52Hz 189Hz ON ON ON 43 104Hz 189Hz ON ON ON 44 143Hz 189Hz ON ON ON 45 189Hz 189Hz ON ON ON 45 189Hz 189Hz ON ON ON 45 189Hz 189Hz ON ON ON 46 ON ON ON ON 47 ON ON ON ON 48 ON ON ON ON 49 ON ON ON 40 ON ON ON 41 ON ON ON 45 189Hz 189Hz ON ON ON 46 ON ON ON ON 47 ON ON ON 48 ON ON ON 48 ON ON ON 49 ON ON ON 40 ON ON ON 41 ON ON ON 42 ON ON ON 44 ON ON ON 45 ON ON ON ON 46 ON ON ON 47 ON ON ON 48 ON ON ON 48 ON ON ON 48 ON ON ON 49 ON ON ON 40 ON ON ON 41 ON ON ON 41 ON ON ON 42 ON ON ON 44 ON ON ON 45 ON ON ON 46 ON ON ON 47 ON ON ON						
34						
35 210Hz 189Hz ON OFF OFF 36 52Hz 189Hz ON ON ON OFF 37 88Hz 189Hz ON ON ON OFF 38 124Hz 189Hz ON ON OFF 39 158Hz 189Hz ON ON OFF 40 189Hz 189Hz ON ON OFF 41 210Hz 189Hz ON ON OFF 42 52Hz 189Hz ON ON ON 43 104Hz 189Hz ON ON ON 44 143Hz 189Hz ON ON ON 45 189Hz 189Hz ON ON ON 45 189Hz 189Hz ON ON ON 45 189Hz 189Hz ON ON ON						
36 52Hz 189Hz ON ON OFF						
37 88Hz 189Hz ON ON OFF 38 124Hz 189Hz ON ON OFF 39 158Hz 189Hz ON ON OFF 40 189Hz 189Hz ON ON OFF 41 210Hz 189Hz ON ON OFF 42 52Hz 189Hz ON ON ON 43 104Hz 189Hz ON ON ON 44 143Hz 189Hz ON ON ON 45 189Hz 189Hz ON ON ON 45 189Hz 189Hz ON ON ON	35	210Hz	189Hz	ON	OFF	OFF
37 88Hz 189Hz ON ON OFF 38 124Hz 189Hz ON ON OFF 39 158Hz 189Hz ON ON OFF 40 189Hz 189Hz ON ON OFF 41 210Hz 189Hz ON ON OFF 42 52Hz 189Hz ON ON ON 43 104Hz 189Hz ON ON ON 44 143Hz 189Hz ON ON ON 45 189Hz 189Hz ON ON ON 45 189Hz 189Hz ON ON ON	36	52Hz	189Hz	ON	ON	OFF
38						
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40 189Hz 189Hz ON ON OFF 41 210Hz 189Hz ON ON OFF 42 52Hz 189Hz ON ON ON ON 43 104Hz 189Hz ON ON ON ON ON ON ON 01 189Hz ON ON ON ON ON ON ON O						
41 210Hz 189Hz ON ON OFF						
42 52Hz 189Hz ON ON ON 43 104Hz 189Hz ON ON ON 44 143Hz 189Hz ON ON ON 45 189Hz 189Hz ON ON ON						
43 104Hz 189Hz ON ON ON 44 143Hz 189Hz ON ON ON ON 45 189Hz 189Hz ON ON ON ON						
44 143Hz 189Hz ON ON ON 45 189Hz 189Hz ON ON ON						
45 189Hz 189Hz ON ON ON						
40 210HZ 189HZ ON ON ON						
	46	2 IUHZ	189HZ	UN	UN	ON

- Compressors are operated in the order of descending priorities.
- Compressors may operate in a pattern other than those listed in above tables subject to the operating conditions.
- "Master unit", and "slave unit" in this section are the names for control, and they will be transferred according to the priority of rotation system.

Si38-304 Basic Control

RX(Y)30,32M

100	JU, JZ IV					
	Master	Slave	STD	STD	STD	STD
STEP	unit	unit	unit	unit	unit	unit
	INV	INV	No.1	No.2	No.3	No.4
1	52Hz	OFF	OFF	OFF	OFF	OFF
2	57Hz	OFF	OFF	OFF	OFF	OFF
3	62Hz	OFF	OFF	OFF	OFF	OFF
4	68Hz	OFF	OFF	OFF	OFF	OFF
5	74Hz	OFF	OFF	OFF	OFF	OFF
6	81Hz	OFF	OFF	OFF	OFF	OFF
7	88Hz	OFF	OFF	OFF	OFF	OFF
8	96Hz	OFF	OFF	OFF	OFF	OFF
9	104Hz	OFF	OFF	OFF	OFF	OFF
10	110Hz	OFF	ÖFF	OFF	OFF	OFF
11	116Hz	OFF	OFF	OFF	OFF	OFF
12	124Hz	OFF	OFF	OFF	OFF	OFF
13	133Hz	OFF	OFF	OFF	OFF	OFF
14	143Hz	OFF	OFF	OFF	OFF	OFF
15	158Hz	OFF	OFF	OFF	OFF	OFF
16	165Hz	OFF	OFF	OFF	OFF	OFF
17	177Hz				OFF	OFF
		OFF	OFF	OFF		
18	189Hz	OFF	OFF	OFF	OFF	OFF
19	202Hz	OFF	OFF	OFF	OFF	OFF
20	210Hz	OFF	OFF	OFF	OFF	OFF
21	52Hz	189Hz	OFF	OFF	OFF	OFF
22	74Hz	189Hz	ÖFF	ÖFF	ÖFF	OFF
23	96Hz	189Hz	OFF	OFF	ÖFF	OFF
24	116Hz	189Hz	OFF	OFF	ÖFF	OFF
25	133Hz	189Hz	OFF	OFF	OFF	OFF
26	158Hz	189Hz	OFF	OFF	OFF	OFF
27	177Hz	189Hz	OFF	OFF	OFF	OFF
28	202Hz	189Hz	OFF	ÖFF	ÖFF	ÖFF
29	210Hz	189Hz	OFF	OFF	OFF	OFF
	52Hz	189Hz	ON	OFF	OFF	OFF
30						
31	88Hz	189Hz	ON	OFF	OFF	OFF
32	124Hz	189Hz	ON	OFF	OFF	OFF
33	158Hz	189Hz	ON	OFF	OFF	OFF
34	189Hz	189Hz	ON	OFF	OFF	OFF
35	210Hz	189Hz	ON	OFF	OFF	OFF
36	52Hz	189Hz	ON	ON	OFF	OFF
37	88Hz	189Hz	ON	ON	OFF	OFF
38	124Hz	189Hz	ÖN	ÖN	ÖFF	ÖFF
39	158Hz	189Hz	ON	ON	OFF	OFF
40	189Hz	189Hz	ON	ON	OFF	OFF
41	52Hz	189Hz	ON	ON	ON	OFF
42	104Hz	189Hz	ON	ON	ON	OFF
43	143Hz	189Hz	ON	ON	ON	OFF
44	189Hz	189Hz	ON	ON	ON	OFF
45	52Hz	189Hz	ON	ON	ON	ON
46	104Hz	189Hz	ON	ON	ON	ON
47	143Hz	189Hz	ON	ON	ON	ON
48	189Hz	189Hz	ÖN	ÖN	ÖN	ÖN
						_

RX(Y)34,36,38M

	Mootor	Claye	Slave	STD	STD	STD	STD
OTED	Master	Slave					
STEP	unit	unit1	unit2	unit	unit	unit	unit
	INV	INV	INV	No.1	No.2	No.3	No.4
1	52Hz	OFF	OFF	OFF	OFF	OFF	OFF
2	57Hz	OFF	OFF	OFF	OFF	OFF	OFF
3	62Hz	OFF	OFF	OFF	OFF	OFF	OFF
4	68Hz	OFF	OFF	OFF	OFF	OFF	OFF
5	74Hz	OFF	OFF	OFF	OFF	OFF	OFF
6	81Hz	OFF	OFF	OFF	OFF	OFF	OFF
7	88Hz	OFF	OFF	OFF	OFF	OFF	OFF
8		OFF	OFF	OFF	OFF	OFF	OFF
	96Hz						
9	104Hz	OFF	OFF	OFF	OFF	OFF	OFF
10	110Hz	OFF	OFF	OFF	OFF	OFF	OFF
11	116Hz	OFF	OFF	OFF	OFF	OFF	OFF
12	124Hz	OFF	OFF	OFF	OFF	OFF	OFF
13	133Hz	OFF	OFF	OFF	OFF	OFF	OFF
14	143Hz	OFF	OFF	OFF	OFF	OFF	OFF
15	158Hz	OFF	OFF	OFF	OFF	OFF	OFF
16	165Hz	OFF	OFF	OFF	OFF	OFF	OFF
17	177Hz	OFF	OFF	OFF	OFF	OFF	OFF
						OFF	
18	189Hz	OFF	OFF	OFF	OFF		OFF
19	202Hz	OFF	OFF	OFF	OFF	OFF	OFF
20	210Hz	OFF	OFF	OFF	OFF	OFF	OFF
21	52Hz	189Hz	OFF	OFF	OFF	OFF	OFF
22	74Hz	189Hz	OFF	OFF	ÖFF	OFF	OFF
23	96Hz	189Hz	OFF	OFF	OFF	OFF	OFF
24	116Hz		OFF	OFF	OFF	OFF	OFF
25		189Hz					
	133Hz	189Hz	OFF	OFF	OFF	OFF	OFF
26	158Hz	189Hz	OFF	OFF	OFF	OFF	OFF
27	177Hz	189Hz	OFF	OFF	OFF	OFF	OFF
28	202Hz	189Hz	OFF	OFF	OFF	OFF	OFF
29	210Hz	189Hz	OFF	OFF	OFF	OFF	OFF
30	52Hz	189Hz	189Hz	OFF	OFF	OFF	OFF
31	88Hz	189Hz	189Hz	OFF	OFF	OFF	OFF
32	124Hz	189Hz	189Hz	OFF	OFF	OFF	OFF
33				OFF	OFF	OFF	OFF
	158Hz	189Hz	189Hz				
34	189Hz	189Hz	189Hz	OFF	OFF	OFF	OFF
35	210Hz	189Hz	189Hz	OFF	OFF	OFF	OFF
36	52Hz	189Hz	189Hz	ON	OFF	OFF	OFF
37	88Hz	189Hz	189Hz	ON	OFF	OFF	OFF
38	124Hz	189Hz	189Hz	ON	OFF	OFF	OFF
39	158Hz	189Hz	189Hz	ON	OFF	OFF	OFF
40	189Hz	189Hz	189Hz	ON	OFF	OFF	OFF
41	210Hz	189Hz	189Hz	ON	OFF	OFF	OFF
42	52Hz	189Hz	189Hz	ON	ON	OFF	OFF
43	104Hz	189Hz	189Hz	ON	ON	OFF	OFF
44	143Hz	189Hz	189Hz	ON	ON	OFF	OFF
45	189Hz	189Hz	189Hz	ON	ON	OFF	OFF
46	210Hz	189Hz	189Hz	ÖN	ÖN	ÖFF	ÖFF
47	52Hz	189Hz	189Hz	ON	ON	ON	OFF
48	104Hz	189Hz	189Hz	ON	ON	ON	OFF
49	143Hz	189Hz	189Hz	ON	ON	ON	OFF
50	189Hz	189Hz	189Hz	ON	ON	ON	OFF
51	52Hz	189Hz	189Hz	ON	ON	ON	ON
	<u> </u>		189Hz	ON	ON	ON	ON
52	104Hz	189Hz					
53	143Hz	189Hz	189Hz	ON	ON	ON	ON
54	189Hz	189Hz	189Hz	ON	ON	ON	ON

- Compressors are operated in the order of descending priorities.
- Compressors may operate in a pattern other than those listed in above tables subject to the operating conditions.
- "Master unit", and "slave unit" in this section are the names for control, and they will be transferred according to the priority of rotation system.

Basic Control Si38-304

RX(Y)40,42,44M

STEP			Slave unit2 INV	STD unit No.1	STD unit No.2	STD unit No.3	STD unit No.4	STD unit No.5
1	52Hz	OFF	OFF	OFF	OFF	OFF	OFF	OFF
2	57Hz	OFF	OFF	OFF	OFF	OFF	OFF	OFF
3	62Hz	OFF	OFF	OFF	ÖFF	OFF	ÖFF	OFF
4	68Hz	OFF	OFF	OFF	OFF	OFF	OFF	OFF
5	74Hz	OFF	OFF	OFF	OFF	OFF	OFF OFF	OFF
6	81Hz	OFF	OFF	OFF	OFF	OFF	OFF	OFF
7	88Hz	OFF	OFF	OFF	OFF	OFF	OFF	OFF
8	96Hz	OFF	OFF	OFF	OFF	OFF	OFF	OFF
9	104Hz	OFF	OFF	OFF	OFF	OFF	OFF OFF	OFF
10	110Hz	OFF	OFF	OFF OFF	OFF OFF	OFF OFF	OFF OFF	OFF OFF
11	116Hz	OFF	OFF	OFF	OFF	OFF	OFF	OFF
12	124Hz	OFF	OFF	OFF	OFF	OFF	OFF	OFF
13	133Hz	OFF	OFF	OFF	OFF	OFF	OFF	OFF
14	143Hz	OFF	OFF	OFF	OFF	OFF	OFF	OFF
15	158Hz	OFF	OFF	OFF	OFF	OFF	OFF OFF	OFF
16	165Hz	OFF	OFF	OFF	OFF	OFF	OFF	OFF
17	177Hz	OFF	OFF	OFF	OFF	OFF	OFF	OFF
18	189Hz	ÖFF	ÖFF	ÖFF	ÖFF	ÖFF	ÖFF	ÖFF
19	202Hz	OFF	ÖFF	OFF	OFF	OFF	OFF	OFF
20	210Hz	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	•					•	•	•
21	52Hz	189Hz	OFF	OFF	OFF	OFF	OFF	OFF
22	74Hz	189Hz	OFF	OFF	OFF	OFF	OFF	OFF
23	96Hz	189Hz	OFF	OFF	OFF	OFF	OFF	OFF
24	116Hz	189Hz	OFF	OFF OFF	OFF OFF	OFF OFF	OFF OFF	OFF
25	133Hz	189Hz	OFF	OFF	OFF	OFF	OFF	OFF
26	158Hz	189Hz	OFF	OFF	OFF	OFF	OFF	OFF
27	177Hz	189Hz	OFF	OFF	OFF	OFF	OFF	OFF
28	202Hz	189Hz	OFF	OFF	OFF	OFF	OFF	OFF
29	210Hz	189Hz	OFF	OFF	OFF	OFF	OFF	OFF
30	52Hz	189Hz	189Hz	OFF	OFF	OFF	OFF	OFF
31	88Hz	189Hz	189Hz 189Hz	OFF	OFF	OFF	OFF	OFF
32	124Hz	189Hz	189Hz	OFF	ÖFF	ÖFF	OFF OFF	OFF
33	158Hz	189Hz	189Hz	OFF	OFF	OFF	OFF	OFF
34	189Hz	189Hz	189Hz	OFF	OFF	OFF	OFF	OFF
35	210Hz	189Hz	189Hz	OFF	OFF	OFF	OFF	OFF
	52Hz	189Hz	189Hz	ON	OFF	OFF	OFF	OFF
36 37	88Hz	189Hz	189Hz	ON	OFF	OFF	OFF	OFF
38	124Hz	189Hz	189Hz	ON	OFF	OFF	OFF	OFF
39	158Hz	189Hz	189Hz	ON	OFF	OFF	OFF	OFF
40	189Hz	189Hz	189Hz	ON	OFF	OFF	OFF	OFF
41	210Hz	189Hz	189Hz	ON	OFF	OFF	OFF	OFF
	•				•	•		
42	52Hz	189Hz	189Hz	ON	ON	OFF	OFF	OFF
43	104Hz	189Hz	189Hz	ON	ON	OFF	OFF	OFF
44 45	143Hz 189Hz	189Hz 189Hz	189Hz 189Hz	ON	ON	OFF	OFF OFF	OFF
45	189Hz	189Hz	189Hz	ON	ŌN	ÖFF	OFF	OFF
46	210Hz	189Hz	189Hz	ON	ON	OFF	OFF	OFF
47	52Hz	189Hz	189Hz	ON	ON	ON	OFF	OFF
48	104Hz	189Hz	189Hz	ON	ON	ON	OFF	OFF
49	143Hz	189Hz	189Hz	ON	ON	ON	OFF	OFF
50	189Hz	189Hz	189Hz	ON	ON	ON	OFF	OFF
51	52Hz	189Hz	189Hz	ON	ON	ON	ON	OFF
52	104Hz	189Hz	189Hz	ON	ON	ON	ON	OFF
53	143Hz	189Hz	189Hz	ON	ON	ON	ON	OFF
54	189Hz	189Hz	189Hz	ON	ON	ON	ON	OFF
55	52Hz	189Hz	189Hz	ON	ON	ON	ON	ON
	104Hz	189Hz	189Hz	ON	ÖN	ON	ON	ÖN
		40011	189Hz	ÖN	ÖN	ÖN	ÖN	ÖN
<u>56</u> 57	143Hz	189Hz	189HZ	ON	ON	ON	ON	UN

*

Compressors are operated in the order of descending priorities.

Compressors may operate in a pattern other than those listed in above tables subject to on the operating conditions.

^{• &}quot;Master unit", "slave unit 1" and "slave unit 2" in this section are the names for control, and they will be transferred according to the priority of rotation system.

Si38-304 Basic Control

RX(Y)46,48M

STEP	Master unit INV	Slave unit1 INV	Slave unit2 INV	STD unit No.1	STD unit No.2	STD unit No.3		STD unit No.5	STD unit No.6
1	52Hz	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
2	57Hz 62Hz	OFF	OFF	OFF OFF OFF	OFF	OFF OFF OFF	OFF OFF OFF	OFF	OFF
3	62Hz	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
4	68Hz	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
5	74Hz	OFF	OFF	OFF OFF	OFF	OFF OFF	OFF OFF	OFF	OFF
6	81Hz	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF OFF
	88Hz	OFF	OFF	OFF OFF OFF OFF OFF	OFF	OFF	OFF OFF OFF OFF OFF	OFF	
<u>8</u> 9	96Hz 104Hz	OFF OFF	OFF OFF	OFF	OFF OFF	OFF OFF	OFF	OFF OFF	OFF OFF
10	110Hz	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
11	116Hz	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
12	124Hz	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
13	133Hz	OFF	OFF	OFF OFF OFF	OFF	OFF	OFF OFF OFF OFF	OFF	OFF
14	143Hz	OFF	OFF	OFF	OFF	ÖFF	OFF	OFF	OFF
15	158Hz	ÖFF	ÖFF	ÖFF	ÖFF	ÖFF	ÖFF	OFF	ÖFF
16	165Hz	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
17	177Hz 189Hz	OFF	OFF	OFF OFF	OFF	OFF	OFF	OFF	OFF
18	189Hz	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
19	202Hz	OFF	OFF	OFF	OFF	OFF	OFF OFF OFF	OFF	OFF
20	210Hz	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
21	52Hz	189Hz	OFF	OFF	OFF	OFF	OFF	OFF	OFF
21 22	74Hz	189Hz	OFF	OFF	ÖFF	OFF	OFF	ÖFF	OFF
23	96Hz	189Hz	OFF	OFF	OFF	OFF	OFF	OFF	OFF
24	116Hz	189Hz	OFF	OFF	OFF	OFF	OFF	OFF	OFF
25	116Hz 133Hz 158Hz	189Hz	OFF	OFF	OFF OFF	OFF	OFF	OFF OFF	OFF
24 25 26 27	158Hz	189Hz 189Hz 189Hz	OFF	OFF OFF OFF OFF	OFF	OFF	OFF OFF OFF OFF	OFF	OFF
27	177Hz	189Hz	OFF	OFF	OFF	OFF	OFF	OFF	OFF
28	202Hz	189Hz	OFF	OFF	OFF	OFF	OFF	OFF	OFF
29	210Hz	189Hz	OFF	OFF	OFF	OFF	OFF	OFF	OFF
30	52Hz	189Hz	189Hz	OFF OFF	OFF	OFF	OFF OFF	OFF	OFF
31	88Hz	189Hz	189Hz	OFF	OFF	OFF	OFF	OFF	OFF
32	124Hz	189Hz	189Hz	OFF	OFF	OFF	OFF	OFF	OFF
33 34 35	158Hz 189Hz	189Hz 189Hz	189Hz	OFF OFF	OFF OFF	OFF	OFF OFF OFF	OFF OFF	OFF
34	189Hz	189Hz	189Hz	OFF	OFF	OFF	OFF	OFF	OFF
	210Hz	189Hz	189Hz	OFF	OFF	OFF		OFF	OFF
36	52Hz	189Hz	189Hz	ON	OFF	OFF	OFF	OFF	OFF
37	88Hz	189Hz	189Hz	ON	OFF	OFF	OFF OFF OFF OFF	OFF	OFF
38 39 40	124Hz 158Hz	189Hz	189Hz	ON ON	OFF	OFF	OFF	OFF	OFF
39	158Hz	189Hz 189Hz	189Hz	ON	OFF	OFF	OFF	OFF	OFF
40	189Hz	189Hz	189Hz	ON	OFF	OFF	OFF	OFF	OFF
41	210Hz	189Hz	189Hz	ON	OFF	OFF	OFF	OFF	OFF
42	52Hz	189Hz	189Hz	ON	ON	OFF	OFF	OFF	OFF
43	104Hz	189Hz	189Hz	ON	ON	OFF	OFF	OFF	OFF
44	143Hz	189Hz 189Hz	189Hz	ON	ON	OFF	OFF OFF OFF	OFF	OFF
45	189Hz	189HZ	189Hz	ON	ON	OFF	OFF	OFF OFF	OFF
46	210Hz	189Hz	189Hz	ON	ON	OFF	OFF		OFF
47	52Hz	189Hz	189Hz	ON	ON	ON	OFF OFF OFF	OFF	OFF
48	104Hz	189Hz	189Hz	ON	ON	ON	OFF	OFF	OFF
49 50	143Hz 189Hz	189Hz 189Hz	189Hz	ON	ON	ON	OFF	OFF	OFF
			189Hz	ON	ÓN	ON		ÖFF	OFF
51	52Hz	189Hz	189Hz	ON	ON	ON	ON	OFF	OFF
52	104Hz	189Hz	189Hz	ON	ON	ON	ON	OFF	OFF
53 54	143Hz	189Hz	189Hz	ON ON	ON	ON	ON ON	OFF	OFF
	189Hz	189Hz	189Hz		ON	ON	ON	OFF	OFF
55 56 57	52Hz	189Hz	189Hz	ON	ON	ON	ON	ON	OFF
56	104Hz	189Hz	189Hz	ON	ON	ON	ON	ON	OFF
57	143Hz	189Hz	189Hz	ON	ON	ON	ON	ON	OFF
58	189Hz	189Hz	189Hz	ON	ON	ON	ON	ON	OFF
59	52Hz	189Hz	189Hz	ON	ON	ON	ON	ON	ON
60	104Hz	189Hz	189Hz	ON	ON	ÖN	ON	ON	ON
61	143Hz	189Hz	189Hz	ON	ON	ON	ON	ON	ON
62				ON	ON	ON	ON	ON	ON

- Compressors are operated in the order of descending priorities.
- Compressors may operate in a pattern other than those listed in above tables subject to on the operating conditions.
- "Master unit", "slave unit 1" and "slave unit 2" in this section are the names for control, and they will be transferred according to the priority of rotation system.

Basic Control Si38-304

Electronic Expansion Valve PI Control 2.3

Main Motorized Valve EV1 Control

Carries out the motorized valve (Y1E) PI control to maintain the evaporator outlet superheated degree (SH) at constant during heating operation to make maximum use of the outdoor unit heat exchanger (evaporator).

SH = Ts - Te SH: Evaporator outlet superheated degree (°C)

Ts: Suction pipe temperature detected by thermistor

R2T (°C)

Te: Low pressure equivalent saturation temperature

(°C)

The optimum initial value of the evaporator outlet superheated degree is 5°C, but varies depending on the discharge pipe superheated degree of inverter compressor.

Subcooling Motorized Valve EV2 Control

Makes PI control of the motorized valve (Y2E) to keep the superheated degree of the outlet gas pipe on the evaporator side for the full use of the subcooling heat exchanger.

SH = Tsh -Te SH: Outlet superheated degree of evaporator (°C)

Tsh : Suction pipe temperature detected with the thermistor R5T (°C)

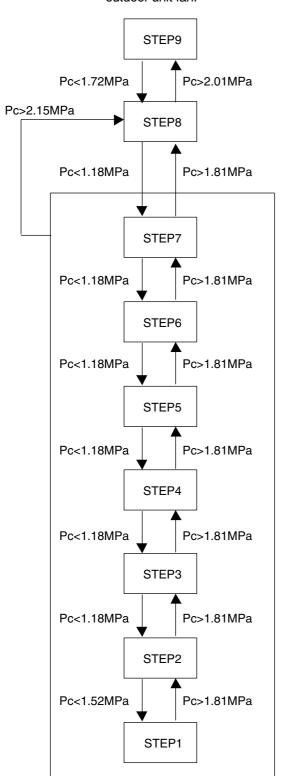
Te: Low pressure equivalent saturation temperature

(°C)

Si38-304 Basic Control

2.4 Cooling Operation Fan Control

In cooling operation with low outdoor air temperature, this control is used to provide the adequate amount of circulation air with liquid pressure secured by high pressure control using outdoor unit fan.



Pc: HP pressure sensor detection value

Fan Steps

	RX(Y)5M	RX(Y) 8 and 10M	RX(Y) 12 to 16M
STEP1	0rpm	0rpm	0rpm
STEP2	300rpm	300rpm	300rpm
STEP3	320rpm	320rpm	325rpm
STEP4	350rpm	345rpm	355rpm
STEP5	385rpm	385rpm	400rpm
STEP6	470rpm	465rpm	500rpm
STEP7	585rpm	575rpm	630rpm
STEP8	800rpm	765rpm	880rpm
STEP9	840rpm	825rpm	920rpm

Special Control Si38-304

3. Special Control

3.1 Startup Control

3.1.1 Startup Control in Cooling Operation

Actuator	Operation	Remarks
Compressor	Differential pressure control	Compressor operating frequency increases by 2 step / 20 sec until Pc - Pe>0.4 MPa.
Outdoor unit fan	High pressure control	Initial compressor operating frequency is set to STEP 1. 1-step increase with Pc>1.5 MPa 1-step decrease with Pc<1.2 MPa
Four way valve	OFF	_
Main motorized valve (EV1)	0 pls	— (RX(Y)5M : 2000pls)
Subcooling motorized valve (EV2)	0 pls	_
Hot gas bypass valve (SVP)	ON	_
Oil equalization valve (SVO)	ON	In the case of multi-outdoor-unit system, this valve repeats ON/OFF operation at regular intervals of time to equalize the oil level of each outdoor unit.
Receiver gas charging valve (SVL)	OFF	_
Receiver gas discharging valve (SVG)	OFF	_
Non-operating unit gas discharging valve (SVSG)	OFF	_
Non-operating unit liquid pipe stop valve (SVSL)	ON	_
Ending conditions	or • 200 sec. • Pc - Pe>0.4 MPa	

^{*} In the case of multi-outdoor-unit system, both master and slave units perform the operations listed in the table above.

3.1.2 Startup Control in Heating Operation (H / P model only)

Actuator	Operation	Remarks
Compressor	Differential pressure control	Compressor operating frequency increases by 2 step / 20 sec until Pc - Pe>0.4 MPa.
Outdoor unit fan	STEP9	_
Four way valve	ON	_
Main motorized valve (EV1)	180 pls	_
Subcooling motorized valve (EV2)	0 pls	_
Hot gas bypass valve (SVP)	ON	_
Oil equalization valve (SVO)	ON	In the case of multi-outdoor-unit system, this valve repeats ON/OFF operation at regular intervals of time to equalize the oil level of each outdoor unit.
Receiver gas charging valve (SVL)	OFF	—
Receiver gas discharging valve (SVG)	OFF	_
Non-operating unit gas discharging valve (SVSG)	OFF	_
Non-operating unit liquid pipe stop valve (SVSL)	ON	_
Ending conditions	or • 200 sec. • Pc - Pe>0.4 MPa	

^{*} In the case of multi-outdoor-unit system, both master and slave units perform the operations listed in the table above.

* Actuators are based on RXY16M.

^{*} Actuators are based on RX(Y)16M.

Si38-304 Special Control

3.2 Oil Return Operation

3.2.1 Oil Return Operation in Cooling Operation

Outdoor unit actuator	Oil return preparation operation	Oil return operation	Post-oil-return operation
Compressor	Upper limit control	124 Hz + ON + OFF	124 Hz + ON + OFF
Outdoor unit fan	Fan control	Fan control	Fan control
Four way valve	OFF	OFF	OFF
Main motorized valve (EV1) *Value in () are for RX(Y)5M only.	0 pls (2000pls)	0 pls (2000pls)	0 pls (2000pls)
Subcooling motorized valve (EV2)	SH control	0 pls	0 pls
Hot gas bypass valve (SVP)	OFF	ON	ON
Oil equalization valve (SVO)	ON	ON	ON
Receiver gas charging valve (SVL)	OFF	OFF	OFF
Receiver gas discharging valve (SVG)	OFF	OFF	OFF
Non-operating unit gas discharging valve (SVSG)	OFF	OFF	OFF
Non-operating unit liquid pipe stop valve (SVSL)	ON	ON	ON
Ending conditions	20 sec.	or • 3 min. • Ts - Te<5	10 sec.

^{*} In the case of multi-outdoor-unit system,

Master unit: Performs the operations listed in the table above.

Slave units: Operating units perform the operations listed in the table above.

Non-operating units perform the operations listed in the table above from the oil return operation.

(Non-operating unit stops during "oil return preparation operation".)

^{*} Actuators are based on RX(Y)16M.

In	door unit actuator	Cooling oil return operation	
	Thermostat ON unit	Set Air Volume	
Fan	Stopping unit	OFF	
	Thermostat OFF unit	OFF	
	Thermostat ON unit	Normal opening	
Electronic expansion valve	Stopping unit	200 pls	
	Thermostat OFF unit	200 pls	

Special Control Si38-304

3.2.2 Oil Return Operation in Heating Operation (H / P model only)

_	_	-	
Outdoor Unit Actuator	Oil return preparation operation	Oil return operation	Post-oil-return operation
Compressor	Upper limit control	124 Hz + ON + ON	2-step increase from (74 Hz + OFF + OFF) to (Pc - Pe>0.4 MPa) time
Outdoor unit fan	STEP8 or STEP9	OFF	STEP9
Four way valve	ON	OFF	ON
Main motorized valve (EV1) *Value in () are for RXY5M only.	SH control	0 pls (2000pls)	200~400 pls
Subcooling motorized valve (EV2)	0 pls	0 pls	0 pls
Hot gas bypass valve (SVP)	OFF	ON	ON
Oil equalization valve (SVO)	ON	ON	ON
Receiver gas charging valve (SVL)	OFF	OFF	OFF
Receiver gas discharging valve (SVG)	OFF	OFF	OFF
Non-operating unit gas discharging valve (SVSG)	OFF	OFF	OFF
Non-operating unit liquid pipe stop valve (SVSL)	ON	ON	ON
Ending conditions	2 min.	or • 6 min. • Ts - Te<5	or • 160 sec. • Pc - Pe>0.4MPa

^{*} In the case of multi-outdoor-unit system,

Master unit: Performs the operations listed in the table above.

Slave units: Operating units perform the operations listed in the table above.

Non-operating units perform the operations listed in the table above from the oil return operation.

(Non-operating unit stops during "oil return preparation operation".)

^{*} Actuators are based on RXY16M.

Inc	door unit actuator	Heating oil return operation
	Thermostat ON unit	OFF
Fan	Stopping unit	OFF
	Thermostat OFF unit	OFF
	Thermostat ON unit	512 pls
Electronic expansion valve	Stopping unit	512 pls
	Thermostat OFF unit	512 pls

<In condition of oil return operation>

Compressor cumulative operation time > Max. 8 hours, it will depend on the compressor frequency during operation. (However, 2 hours after turning power on first time.)

Si38-304 Special Control

3.3 Defrosting Operation (H / P model only)

Outdoor unit actuator	Defrost preparation operation	Defrost operation	Post Defrost operation
Compressor	Upper limit control	143 Hz + ON + ON	2-step increase from (74 Hz + OFF + OFF) to (Pc - Pe>0.4 MPa)
Outdoor unit fan	STEP8 or STEP9	OFF Pc>1.8MPa OFF Step4 Pc<1.5MPa	STEP9
Four way valve	ON	OFF	ON
Main motorized valve (EV1) *Value in () are for RX(Y)5M only.	SH control	0 pls (2000pls)	200~400 pls
Subcooling motorized valve (EV2)	0 pls	0 pls	0 pls
Hot gas bypass valve (SVP)	OFF	ON	ON
Oil equalization valve (SVO)	ON	ON	ON
Receiver gas charging valve (SVL)	OFF	OFF	OFF
Receiver gas discharging valve (SVG)	OFF	OFF	OFF
Non-operating unit gas discharging valve (SVSG)	OFF	OFF	OFF
Non-operating unit liquid pipe stop valve (SVSL)	ON	ON	ON
Ending conditions	2 min.	or • 12 min. • Ts >11°C	or • 160 sec. • Pc - Pe>0.4MPa

^{*} In the case of multi-outdoor-unit system,

Master unit: Performs the operations listed in the table above.

Slave units: Operating units perform the operations listed in the table above.

Non-operating units perform the operations listed in the table above from the Defrost operation.

(Non-operating unit stops during "Defrost preparation operation".)

^{*} Actuators are based on RXY16M.

ln In	door unit actuator	During defrost
	Thermostat ON unit	OFF
Fan	Stopping unit	OFF
	Thermostat OFF unit	OFF
	Thermostat ON unit	512 pls
Electronic expansion valve	Stopping unit	512 pls
	Thermostat OFF unit	512 pls

<Defrost starting condition>

Defrost operation is started when the outdoor heat exchanger temperature becomes lower than deicer temperature. Defrost operation is conducted once in max. 2 hours.

Special Control Si38-304

3.4 Pump-down Residual Operation

3.4.1 Pump-down Residual Operation in Cooling Operation

Actuator	Master unit operation	Slave unit operation
Compressor	210 Hz + OFF + OFF	OFF
Outdoor unit fan	Fan control	OFF
Four way valve	OFF	OFF
Main motorized valve (EV1) *Value in () are for RX(Y)5M only.	0 pls (2000pls)	0 pls
Subcooling motorized valve (EV2)	0 pls	0 pls
Hot gas bypass valve (SVP)	ON	OFF
Oil equalization valve (SVO)	ON	OFF
Receiver gas charging valve (SVL)	OFF	OFF
Receiver gas discharging valve (SVG)	ON	ON
Non-operating unit gas discharging valve (SVSG)	OFF	ON
Non-operating unit liquid pipe stop valve (SVSL)	ON	ON
Ending conditions	or • 5 min. • Pe<0.25 MPa • Td>110°C	

^{*} Actuators are based on RX(Y)16M.

3.4.2 Pump-down Residual Operation in Heating Operation (H / P model only)

Actuator	Master unit operation	Slave unit operation
Compressor	124 Hz + OFF + OFF	OFF
Outdoor unit fan	STEP9	STEP5
Four way valve	ON	ON
Main motorized valve (EV1)	0 pls	0 pls
Subcooling motorized valve (EV2)	0 pls	0 pls
Hot gas bypass valve (SVP)	ON	OFF
Oil equalization valve (SVO)	ON	OFF
Receiver gas charging valve (SVL)	OFF	OFF
Receiver gas discharging valve (SVG)	ON	ON
Non-operating unit gas discharging valve (SVSG)	OFF	ON
Non-operating unit liquid pipe stop valve (SVSL)	ON	ON
Ending conditions	or • 3 min. • Pe<0.10 MPa • Td>135°C	

^{*} Actuators are based on RXY16M.

Si38-304 Special Control

3.5 Restart Standby

Actuator	Operation	Remarks
Compressor	OFF	_
Outdoor unit fan	Ta>30°C: STEP5 Ta≤30°C: OFF	_
Four way valve	Holds ON	_
Main motorized valve (EV1)	0 pls	_
Subcooling motorized valve (EV2)	0 pls	_
Hot gas bypass valve (SVP)	OFF	In the case of RX(Y)5M , this valve turns ON.
Oil equalization valve (SVO)	ON	In the case of slave units, this valve turns OFF.
Receiver gas charging valve (SVL)	OFF	_
Receiver gas discharging valve (SVG)	OFF	_
Non-operating unit gas discharging valve (SVSG)	OFF	_
Non-operating unit liquid pipe stop valve (SVSL)	ON	_
Ending conditions	5 min.	_

^{*} Actuators are based on RX(Y)16M.

Special Control Si38-304

3.6 Stopping Operation

3.6.1 When System is in Stop Mode

Actuator	Operation
Compressor	OFF
Outdoor unit fan	OFF
Four way valve	Holds ON
Main motorized valve (EV1)	0 pls
Subcooling motorized valve (EV2)	0 pls
Hot gas bypass valve (SVP)	OFF
Oil equalization valve (SVO)	OFF
Receiver gas charging valve (SVL)	OFF
Receiver gas discharging valve (SVG)	OFF
Non-operating unit gas discharging valve (SVSG)	OFF
Non-operating unit liquid pipe stop valve (SVSL)	ON
Ending conditions	Indoor unit thermostat is turned ON.

^{*} Actuators are based on RX(Y)16M.

Si38-304 Special Control

3.6.2 Stopping Operation of Slave Units During Master Unit is in Operation With Multi-Outdoor-Unit System

In cooling operation: The system operates in Mode A or Mode B listed in the table below.

Actuator	Mode-A operation	Mode-B operation
Compressor	OFF	OFF
Outdoor unit fan	STEP4	OFF
Four way valve	OFF	Holds ON
Main motorized valve (EV1)	150 pls to 300 pls	0 pls
Subcooling motorized valve (EV2)	0 pls	0 pls
Hot gas bypass valve (SVP)	OFF	OFF
Oil equalization valve (SVO)	OFF	OFF
Receiver gas charging valve (SVL)	OFF	OFF
Receiver gas discharging valve (SVG)	OFF	OFF
Non-operating unit gas discharging valve (SVSG)	ON	ON
Non-operating unit liquid pipe stop valve (SVSL)	OFF	ON
Mode transition conditions	To Mode B when Tc-Tl >0.27×(Tc - Ta) +6	To Mode A when gas shortage signal is sent from indoor unit
Ending conditions	Slave units are required to operate.	1

In heating operation: The system operates in Mode A or Mode B listed in the table below. (H / P model only)

Actuator	Mode-A operation	Mode-B operation
Compressor	OFF	OFF
Outdoor unit fan	STEP2	STEP2
Four way valve	ON	ON
Main motorized valve (EV1)	0 pls	0 pls
Subcooling motorized valve (EV2)	0 pls	0 pls
Hot gas bypass valve (SVP)	OFF	OFF
Oil equalization valve (SVO)	OFF	OFF
Receiver gas charging valve (SVL)	ON	OFF
Receiver gas discharging valve (SVG)	OFF	OFF
Non-operating unit gas discharging valve (SVSG)	ON	ON
Non-operating unit liquid pipe stop valve (SVSL)	OFF	ON
Mode transition conditions	To Mode B when Tc-mean temperature of indoor unit liquid pipes>10°C	To Mode A when motorized valve of operating outdoor unit fully opens.
Ending conditions	Slave units are required to operate.	

* Mode A or B operation

Operating Stopping unit

Operating Unit

Operating Stopping Unit

Mode A : Operating unit collects refrigerant.

Mode B : Stopping unit storage refrigerant.

The changeover operation for mode A and B is performed for the reason that the required refrigerant amount varies depending on the indoor unit operation capacity.

Special Control Si38-304

3.7 Pressure Equalization prior to Startup

Actuator	Operation	Remarks
Compressor	OFF	_
Outdoor unit fan	Cooling:OFF Heating:STEP 4	_
Four way valve	Holds ON	_
Main motorized valve (EV1)	0 pls	_
Subcooling motorized valve (EV2)	0 pls	_
Hot gas bypass valve (SVP)	OFF	In the case of RX(Y)5M, this valve turns ON.
Oil equalization valve (SVO)	OFF	_
Receiver gas charging valve (SVL)	OFF	_
Receiver gas discharging valve (SVG)	OFF	_
Non-operating unit gas discharging valve (SVSG)	OFF	
Non-operating unit liquid pipe stop valve (SVSL)	ON	_
Ending conditions	10 sec.	In the case of RX(Y)5M, 3 min. or Pc-Pe<0.2 MPa

Si38-304 Protection Control

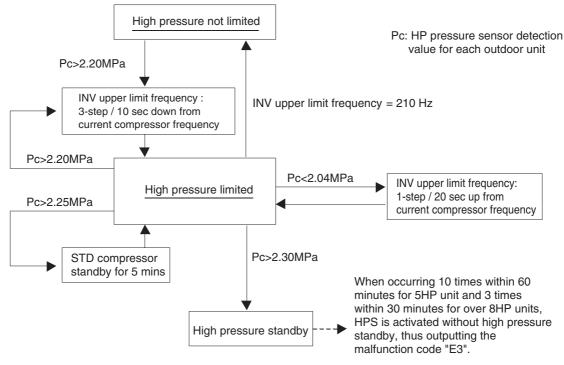
4. Protection Control

4.1 High Pressure Protection Control

This high pressure protection control is used to prevent the activation of protection devices due to abnormal increase of high pressure and to protect compressors against the transient increase of high pressure.

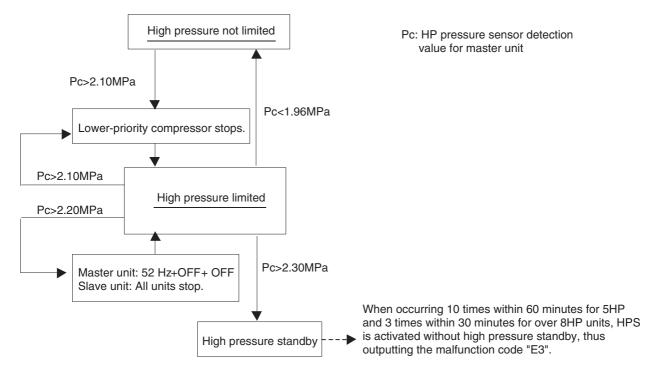
[In cooling operation]

In the case of multi-outdoor-unit system, each outdoor unit performs this control individually in the following sequence.



[In heating operation]

★ In the case of multi-outdoor-unit system, the entire system performs this control in the following sequence.



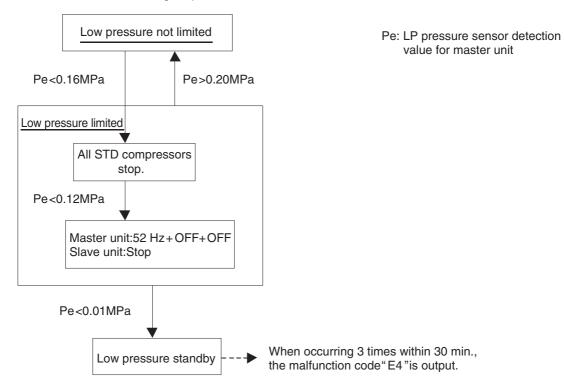
Protection Control Si38-304

4.2 Low Pressure Protection Control

This low pressure protection control is used to protect compressors against the transient decrease of low pressure.

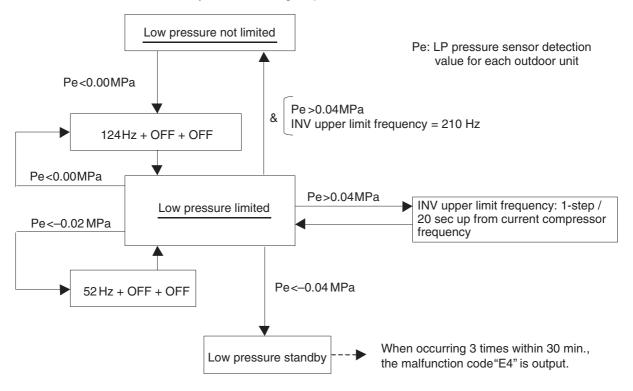
[In cooling operation]

★ In the case of multi-outdoor-unit system, the entire system performs this control in the following sequence.



[In heating operation]

★ In the case of multi-outdoor-unit system, each outdoor unit performs this control individually in the following sequence.



Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

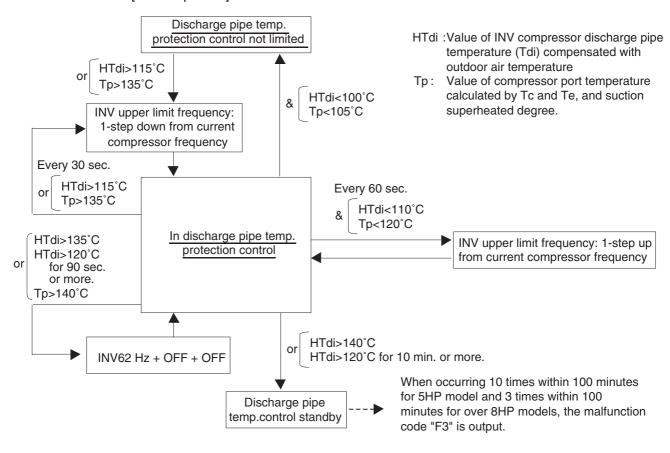
Si38-304 Protection Control

4.3 Discharge Pipe Protection Control

This discharge pipe protection control is used to protect the compressor internal temperature against a malfunction or transient increase of discharge pipe temperature.

★ Each compressor performs the discharge pipe temperature protection control individually in the following sequence.

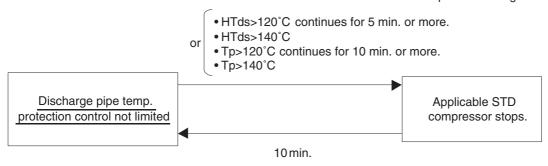
[INV compressor]



[STD compressor]

HTds: Value of STD compressor discharge pipe temperature (Tds) compensated with outdoor air temperature

Tp: Value of compressor port temperature calculated by Tc and Te, and suction superheated degree.



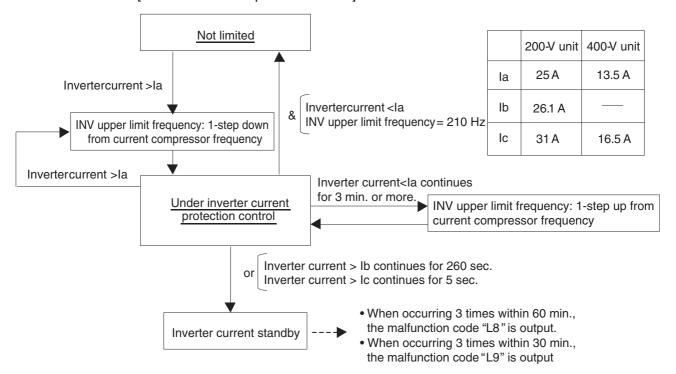
Protection Control Si38-304

4.4 Inverter Protection Control

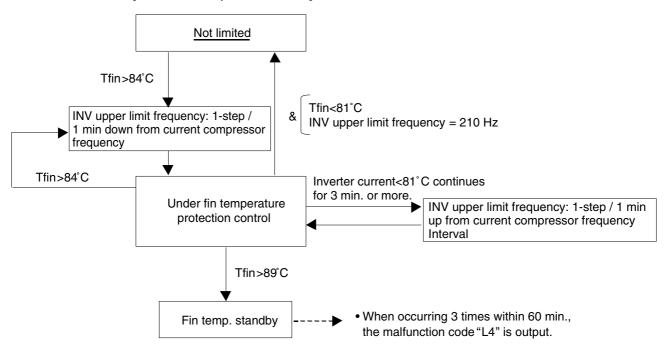
Inverter current protection control and inverter fin temperature control are performed to prevent tripping due to a malfunction, or transient inverter overcurrent, and fin temperature increase.

★ In the case of multi-outdoor-unit system, each INV compressor performs these controls in the following sequence.

[Inverter overcurrent protection control]



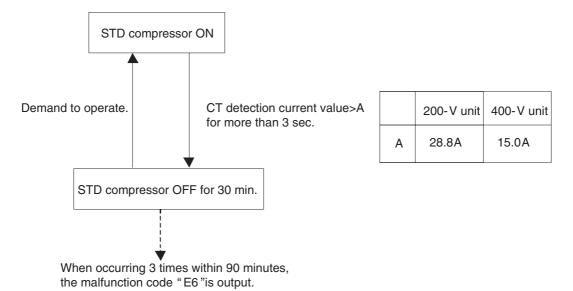
[Inverter fin temperature control]



Si38-304 Protection Control

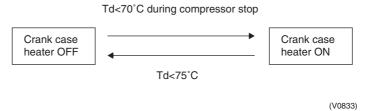
4.5 STD Compressor Overload Protection

This control is used to prevent abnormal heating due to overcurrent to the compressor resulting from failures of STD compressor such as locking.



4.6 Crankcase Heater Control

Controls the crankcase heater to prevent refrigerant from remaining in the inverter and STD compressor.



Td: Compressor discharge pipe temperature.

Other Control Si38-304

5. Other Control

5.1 Outdoor Unit Rotation

In the case of multi-outdoor-unit system, this outdoor unit rotation is used to prevent the compressor from burning out due to unbalanced oil level between outdoor units.

[Details of outdoor unit rotation]

In the case of multi-outdoor-unit system, each outdoor unit is given an operating priority for the control.

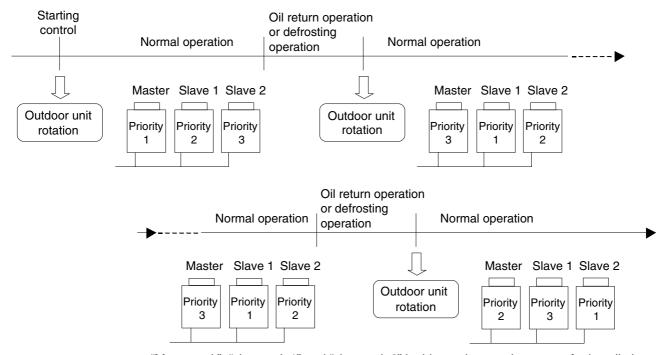
Outdoor unit rotation makes it possible to change the operating priority of outdoor units.

Thus, the system becomes free of compressors that stop over an extended period of time at the time of partial loading, preventing unbalanced oil level.

[Timing of outdoor unit rotation]

or After oil return operation
After defrosting operation
At the beginning of the starting control

Example) The following diagram shows outdoor unit rotation in combination of 3 outdoor units.



* "Master unit", "slave unit 1" and "slave unit 2" in this section are the names for installation. They are determined in installation work, and not changed thereafter. (These names are different from "master unit" and "slave unit" for control.)

The outdoor unit connected the control wires (F1 and F2) for the indoor unit should be designated as master unit

Consequently, The LED display on the main PCB for "master unit", "slave unit 1" and "slave unit 2" do not change. (Refer to the page 90.)

Si38-304 Other Control

Emergency Operation 5.2

If the compressor cannot operate, this control inhibits any applicable compressor or outdoor unit from operating to perform emergency operation only with the operative compressor or outdoor unit



Caution

"For making a compressor unable to operate due to malfunction, etc., be sure to conduct the work with emergency operation setting.

Never execute work such as disconnection of the power cable from magnet contactor. (Otherwise, other normal compressors may malfunction.)

* Because the units will be operated in the combination with which oil pressure equalization between compressors cannot be performed.

5.2.1 Restrictions for Emergency Operation

- In the case of system with 1 outdoor unit installed, only when thermostats of indoor units having a capacity of 50% or more of the outdoor unit capacity turn ON, the emergency operation is functional. (If the total capacity of indoor units with thermostat ON is small, the outdoor unit cannot operate.)
- If the emergency operation is set while the outdoor unit is in operation, the outdoor unit stops once after pump-down residual operation (a maximum of 5 minutes elapsed).

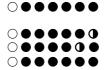
5.2.2 In the Case of 1-Outdoor-Unit System (RX(Y)8 to 16M)

- Emergency operation with settings in service mode
- * "Inhibition of operation" is set with each compressor.
- To inhibit INV compressor from operating → Set setting mode 2 from No. 0 to No. 2.

(Procedure)

- (1) Press and hold the MODE button (BS1) for 5 sec. or
- (2) Press the RETURN button (BS3) once.
- (3) Press the SET button (BS2) once.
- (4) Press the RETURN button (BS3) twice.
- (5) Press the MODE button (BS1) once.

LED display (○:ON •:OFF •:Blink) H1P---H7P



(Factory set)



 To inhibit STD1 and STD2 compressors from operating \rightarrow Set setting mode 2 from No. 19 to No. 2. (RX(Y)8M to RX(Y)16M)

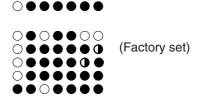
(Procedure)

- (1) Press and hold the MODE button (BS1) for 5 sec. or
- (2) Press the SET button (BS2) 19 times.
- (3) Press the RETURN button (BS3) once.
- (4) Press the SET button (BS2) once.
- (5) Press the RETURN button (BS3) twice.
- (6) Press the MODE button (BS1) once.
- To inhibit STD2 compressor from operating → Set setting mode 2 from No. 19 to No.3.(RX(Y)14M-16M)

(Procedure)

- (1) Press and hold the MODE button (BS1) for 5 sec. or more.
- (2) Press the SET button (BS2) 19 times.
- (3) Press the RETURN button (BS3) once.
- (4) Press the SET button (BS2) twice.
- (5) Press the RETURN button (BS3) twice.
- (6) Press the MODE button (BS1) once.

LED display (○:ON •:OFF •:Blink) H1P - - H7P



LED display (○:ON •:OFF •:Blink) H1P---H7P



(Factory set)



Other Control Si38-304

- With RX(Y)14M and 16M, if INV compressor is inhibited from operating, only 1 STD compressor can operate for reasons of oil equalization.
- With RX(Y)14M and 16M, STD1 compressor cannot be inhibited from operating for reasons of oil equalization.
- When 1 outdoor unit is installed (with RX (Y) 8M to 16M), automatic backup operation cannot be performed.

5.2.3 In The Case of Multi-Outdoor-Unit System (RX(Y)18 to 48M)

Automatic backup operation

With multi-outdoor-unit system, if a certain outdoor unit system malfunctions (i.e., the system stops and indoor unit remote controller displays the malfunction), by resetting the system with the indoor unit remote controller, the applicable outdoor unit is inhibited from operating for 8 hours, thus making it possible to perform emergency operation automatically. However, in the event any of the following malfunctions occurs, automatic backup operation

Malfunctions under which automatic backup operation can be performed:

• E3, E4, E5, E7

can be performed.

- F3
- H7, H9
- J2, J3, J5, J6, J7, J9, JA, JC
- L3, L4, L5, L8, L9, LC
- U2, UJ

Emergency operation with settings in service mode

* "Inhibition of operation" is set with each outdoor unit.

Make the following settings with the master unit. (Setting with the slave unit becomes disabled.)

* Discriminate the operating status of the master unit/slave units through the following LED display.

LED display (
$$\bigcirc$$
:ON \bullet :OFF \bullet :Blink) H1P — — H7P H8P

Master: $\bullet \bullet \bigcirc \bullet \bullet \bullet \bullet \bigcirc$
Slave 1: $\bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet$
(Factory set)

• To inhibit the master unit from operating \rightarrow Set setting mode 2 from No. 38 to No. 2.

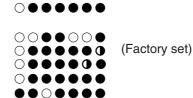
(Procedure)

- (1) Press and hold the MODE button (BS1) for 5 sec. or
- (2) Press the SET button (BS2) 38 times.
- (3) Press the RETURN button (BS3) once.
- (4) Press the SET button (BS2) once.
- (5) Press the RETURN button (BS3) twice.
- (6) Press the MODE button (BS1) once.
- To inhibit the slave unit 1 from operating → Set setting mode 2 from No. 39 to No. 2.

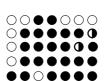
(Procedure)

- (1) Press and hold the MODE button (BS1) for 5 sec. or
- (2) Press the SET button (BS2) 39 times.
- (3) Press the RETURN button (BS3) once.
- (4) Press the SET button (BS2) once.
- (5) Press the RETURN button (BS3) twice.
- (6) Press the MODE button (BS1) once.

LED display (○:ON •:OFF •:Blink) H1P———H7P



LED display (\bigcirc :ON \bullet :OFF \bullet :Blink) H1P---H7P



(Factory set)

Si38-304 Other Control

> To inhibit the slave unit 2 from operating → Set setting mode 2 from No. 40 to No. 2.

(Procedure)

- (1) Press and hold the MODE button (BS1) for 5 sec. or
- (2) Press the SET button (BS2) 40 times.
- (3) Press the RETURN button (BS3) once.
- (4) Press the SET button (BS2) once.
- (5) Press the RETURN button (BS3) twice.
- (6) Press the MODE button (BS1) once.





(Factory set)

- In the case of multi-outdoor-unit system, "Inhibition of operation" is not set with each compressor individually.
- In the case of multi-outdoor-unit system, when the above "Inhibition of operation" is set, outdoor unit rotation is not functional.



Reset the power supply during the outdoor unit is stopping to cancel the automatic backup operation forcibly.

Demand Operation 5.3

In order to save the power consumption, the capacity of outdoor unit is saved with control forcibly by using "Demand 1 Setting" or "Demand 2 Setting".

To operate the unit with this mode, additional setting of "Continuous Demand Setting" or external input by external control adapter is required.

[Demand 1 setting]

Setting	Standard for upper limit of power consumption
Demand 1 setting 1	Approx. 60%
Demand 1 setting 2 (factory setting)	Approx. 70%
Demand 1 setting 3	Approx. 80%

[Demand 2 setting]

Setting	Standard for upper limit of power consumption
Demand 2 setting 2 (factory setting)	Approx. 40%

[★] Other protection control functions have precedence over the above operation.

Heating operation prohibition 5.4

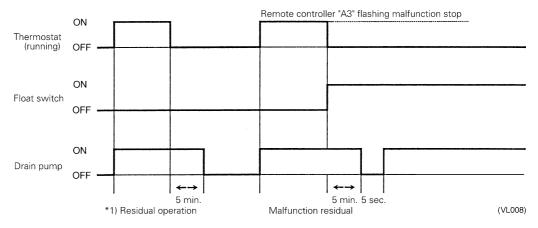
Heating operation is prohibited above 25°C ambient temperature.

6. Outline of Control (Indoor Unit)

6.1 Drain Pump Control

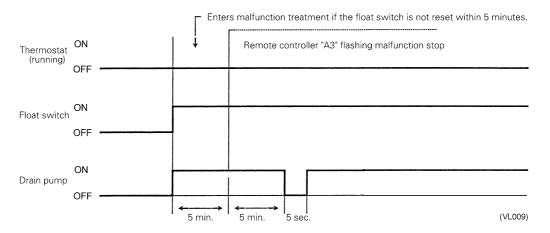
1. The drain pump is controlled by the ON/OFF buttons (4 button (1) - (4) given in the figure below).

6.1.1 When the Float Switch is Tripped While the Cooling Thermostat is ON:

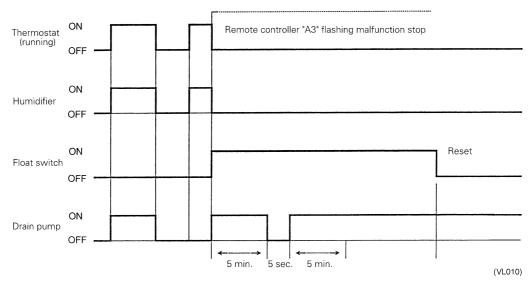


* 1. The objective of residual operation is to completely drain any moisture adhering to the fin of the indoor unit heat exchanger when the thermostat goes off during cooling operation.

6.1.2 When the Float Switch is Tripped During Cooling OFF by Thermostat:

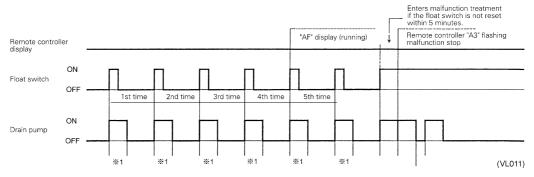


6.1.3 When the Float Switch is Tripped During Heating Operation:



During heating operation, if the float switch is not reset even after the 5 minutes operation, 5 seconds stop, 5 minutes operation cycle ends, operation continues until the switch is reset.

6.1.4 When the Float Switch is Tripped and "AF" is Displayed on the Remote Controller:

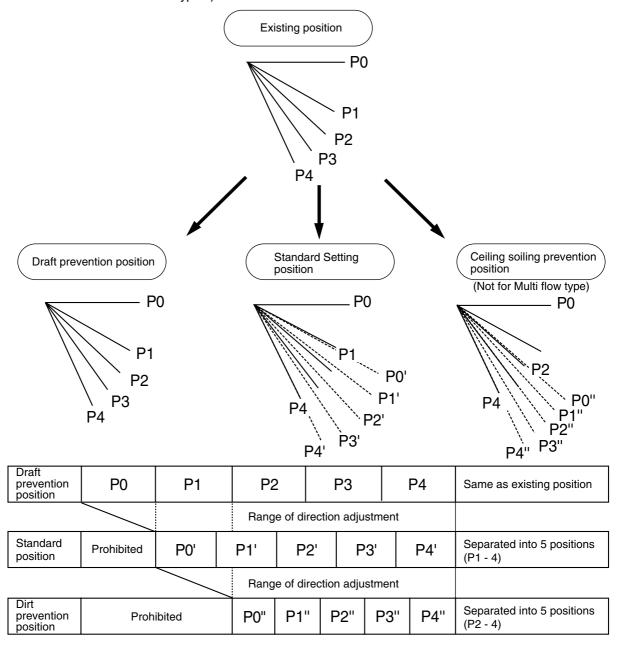


Note:

If the float switch is tripped five times in succession, a drain malfunction is determined to have occurred. "AF" is then displayed as operation continues.

6.2 Louver Control for Preventing Ceiling Dirt

We have added a control feature that allows you to select the range of in which air direction can be adjusted in order to prevent the ceiling surrounding the air discharge outlet of ceiling mounted cassette type units from being soiled. (This feature is available on double flow, multiflow and corner types.)



The factory set position is standard position.

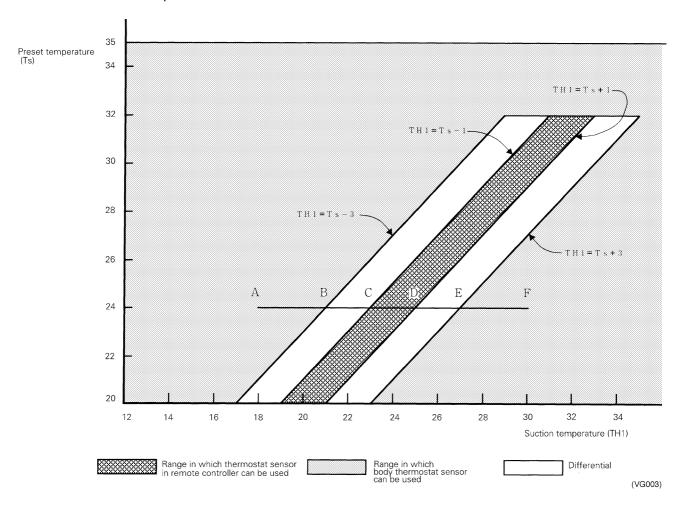
(VL012)

6.3 Thermostat Sensor in Remote Controller

Temperature is controlled by both the thermostat sensor in remote controller and air suction thermostat in the indoor unit. (This is however limited to when the field setting for the thermostat sensor in remote controller is set to "Use.")

Cooling

If there is a significant difference in the preset temperature and the suction temperature, fine adjustment control is carried out using a body thermostat sensor, or using the sensor in the remote controller near the position of the user when the suction temperature is near the preset temperature.



■ Ex: When cooling

Assuming the preset temperature in the figure above is 24°C, and the suction temperature has changed from 18°C to 30°C (A \rightarrow F):

(This example also assumes there are several other air conditioners, the VRV system is off, and that temperature changes even when the thermostat sensor is off.)

Body thermostat sensor is used for temperatures from 18°C to 23°C (A \rightarrow C).

Remote controller thermostat sensor is used for temperatures from 23°C to 27°C (C \rightarrow E).

Body thermostat sensor is used for temperatures from 27°C to 30°C (E \rightarrow F).

And, assuming suction temperature has changed from 30°C to 18°C (F \rightarrow A):

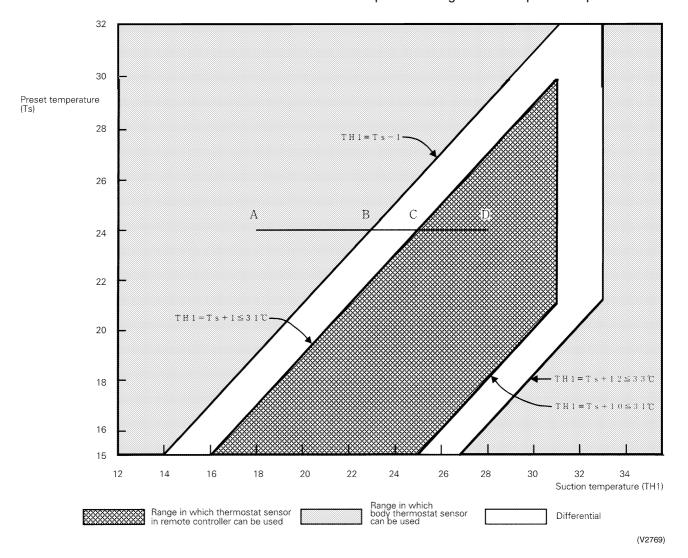
Body thermostat sensor is used for temperatures from 30°C to 25°C (F \rightarrow D).

Remote controller thermostat sensor is used for temperatures from 25°C to 21°C (D \rightarrow B).

Body thermostat sensor is used for temperatures from 21°C to 18°C (B \rightarrow A).

Heating

When heating, the hot air rises to the top of the room, resulting in the temperature being lower near the floor where the occupants are. When controlling by body thermostat sensor only, the unit may therefore be turned off by the thermostat before the lower part of the room reaches the preset temperature. The temperature can be controlled so the lower part of the room where the occupants are doesn't become cold by widening the range in which thermostat sensor in remote controller can be used so that suction temperature is higher than the preset temperature.



■ Ex: When heating

Assuming the preset temperature in the figure above is 24°C, and the suction temperature has changed from 18°C to 28°C (A \to D):

(This example also assumes there are several other air conditioners, the VRV system is off, and that temperature changes even when the thermostat sensor is off.)

Body thermostat sensor is used for temperatures from 18°C to 25°C (A \rightarrow C).

Remote controller thermostat sensor is used for temperatures from 25°C to 28°C ($C \rightarrow D$).

And, assuming suction temperature has changed from 28°C to 18°C (D \rightarrow A):

Remote controller thermostat sensor is used for temperatures from 28°C to 23°C (D \rightarrow B). Body thermostat sensor is used for temperatures from 23°C to 18°C (B \rightarrow A).

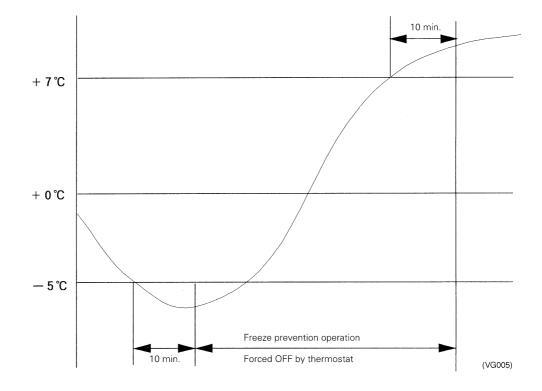
6.4 Freeze Prevention

Freeze Prevention by Off Cycle (Indoor Unit) When the temperature detected by liquid pipe temperature thermistor (R2T) of the indoor unit heat exchanger drops too low, the unit enters freeze prevention operation in accordance with the following conditions, and is also set in accordance with the conditions given below.

Conditions for starting freeze prevention: Temperature is -1°C or less for total of 40 min., or temperature is -5°C or less for total of 10 min.

Conditions for stopping freeze prevention: Temperature is $+7^{\circ}$ C or more for 10 min. continuously

Ex: Case where temperature is -5°C or less for total of 10 min.



Part 5 Test Operation

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		Procedure and Outline	
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		Field Setting from Remote Controller	
		Field Setting from Outdoor Unit	

Test Operation Si38-304

1. Test Operation

1.1 Procedure and Outline

Follow the following procedure to conduct the initial test operation after installation.

1.1.1 Check work prior to turn power supply on

Check the below items.

- · Power wiring
- Control transmission wiring between units
- Earth wire



Check on refrigerant piping



Check on amount of refrigerant charge

- O Is the wiring performed as specified?
- O Are the designated wires used?
- O Is the grounding work completed?

 Use a 500V megger tester to measure the insulation.
 - Do not use a megger tester for other circuits than 200V (or 240v) circuit.
- O Are the setscrews of wiring not loose?
- O Is pipe size proper? (The design pressure of this product is 3.8MPa.)
- O Are pipe insulation materials installed securely?
 Liquid and gas pipes need to be insulated. (Otherwise causes water leak.)
- O Are respective stop valves on liquid, gas and oil equalizing lines securely open?
- O Is refrigerant charged up to the specified amount?

 If insufficient, charge the refrigerant from the service port of stop valve on the liquid side with outdoor unit in stop mode after turning power on.
- O Has the amount of refrigerant charge been recorded on "Record Chart of Additional Refrigerant Charge Amount"?

1.1.2 Turn power on

Turn outdoor unit power on.



Carry out field setting on outdoor PC board



Turn indoor unit power on.

- O Be sure to turn the power on 6 hours before starting operation to protect compressors. (to power on clankcase heater)
- For field settings, refer to "Field Settings" on and after P95.
 After the completion of field settings, set to "Setting mode 1".

(V3056)

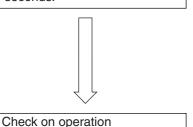
Si38-304 Test Operation

1.1.3 Check Operation

- * During check operation, mount front panel to avoid the misjudging.
- * Check operation is mandatory for normal unit operation.

 (When the check operation is not executed, alarm code "U3" will be displayed.)

Press and hold the TEST OPERATION button (BS4) on outdoor unit PC board for 5 seconds.



O The test operation is started automatically.

The following judgements are conducted within 15 minutes.

- · "Check for wrong wiring"
- "Check refrigerant for over charge"
- "Check stop valve for not open"
- · Pipe length automatic judgement"

The following indications are conducted while in test operation.

- LED lamp on outdoor unit PC board H2P flickers (test operation)
- Remote controller Indicates "On Centralized Control" on upper right.
 Indicates "Test Operation" on lower left

(V3057)

On completion of test operation, LED on outdoor unit PC board displays the following. H3P ON: Normal completion

H2P and H3P ON: Abnormal completion →Check the indoor unit remote controller for abnormal display and correct it.

In the case of multi-outdoor-unit system, make setting on the master unit PC board. (Setting with the slave unit is disabled.)

[LED display in the case of multi-outdoor-unit system] (Same as that in emergency operation)

* Discriminate the operating status of the master unit/slave units through the following LED display.

LED display (○:ON ●:OFF ●:Blink)
H1P——H7P H8P

Master: ●●○●●●●○
Slave 1: ●●●●●●
(Factory set)

Malfunction code

In case of an alarm code displayed on remote controller:

Cause of trouble due to faulty installation work	Alarm code	Countermeasure
Closed stop valve of outdoor unit	E3 E4 F3 UF	In case of RX(Y)5 to 16M (Single outdoor installation) Liquid side stop valve : Open Gas side stop valve : Open Oil equalizing pipe stop valve : Close In case of RX(Y)18 to 48M (Multi outdoor installation) Liquid side stop valve : Open Gas side stop valve : Open Oil equalizing pipe stop valve : Open
Reversed phase in power cable connection for outdoor unit	U1	Change connection of two wires among three for correct phasing.
Electric power for outdoor or indoor unit is not supplied. (Including open phase)	U4	Check that the power cable for outdoor unit is connected properly.
Incorrect wiring between units	UF	Check that the wiring between units corresponds correctly to refrigerant piping system.
Refrigerant overcharge	E3 F6 UF	Compute again optimum amount of refrigerant to be added based on the piping length, then, collect the excessive amount by using refrigerant collector to make the refrigerant amount proper.
Insufficient refrigerant	E4 F3	 Check that additional charging has been carried out. Compute again the refrigerant amount to be added based on the piping length, and charge proper amount of refrigerant additionally.

Test Operation Si38-304

1.1.4 Confirmation on normal operation

Conduct normal unit operation after the check operation has been completed.
 (When outdoor air temperature is 25°C or higher, the unit can not be operated with heating mode. See the instruction manual attached.)
 Confirm that the indoor/outdoor units can be operated normally.
 (When an abnormal noise due to liquid compression by the compressor can be heard, stop the unit immediately, and turn on the crankcase heater to heat up it sufficiently, then start operation again.)

- Operate indoor unit one by one to check that the corresponding outdoor unit operates.
- Confirm that the indoor unit discharges cold air (or warm air).
- Operate the air direction control button and flow rate control button to check the function of the devices.

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

Si38-304 **Test Operation**

Operation When Power is Turned On 1.2

1.2.1 When Turning On Power First Time

The unit cannot be run for up to 12 minutes to automatically set the master power and address (indoor-outdoor address, etc.).

Status

Outdoor unit

Test lamp H2P Blinks

Can also be set during operation described above.

Indoor unit

If ON button is pushed during operation described above, the "UH" malfunction indicator blinks.

(Returns to normal when automatic setting is complete.)

1.2.2 When Turning On Power The Second Time and Subsequent

Tap the RESET button on the outdoor unit PC board. Operation becomes possible for about 2 minutes. If you do not push the RESET button, the unit cannot be run for up to 10 minutes to automatically set master power.

Status

Outdoor unit

Test lamp H2P Blinks

Can also be set during operation described above.

Indoor unit

If ON button is pushed during operation described above, the operation lamp lights but the compressor does not operate. (Returns to normal when automatic setting is complete.)

1.2.3 When an Indoor Unit or Outdoor unit Has Been Added, or Indoor or Outdoor Unit PC Board Has Been Changed

Be sure to push and hold the RESET button for 5 seconds. If not, the addition cannot be recognized. In this case, the unit cannot be run for up to 12 minutes to automatically set the address (indoor-outdoor address, etc.)

Status

Outdoor unit

Test lamp H2P ON

Can also be set during operation described above.

Indoor unit

If ON button is pushed during operation described above, the "UH" or "U4" malfunction indicator blinks. (Returns to normal when automatic setting is complete.)



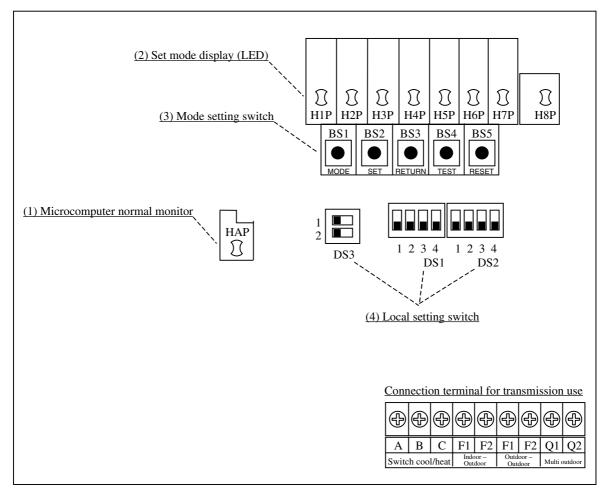
Caution When the 400 volt power supply is applyed to "N" phase by mistake, replace Inverter P.C.B (A2P) and control transformer (T1R, T2R) in switch box together.

(V0847)

125 **Test Operation**

2. Outdoor Unit PC Board Layout

Outdoor unit PC board



(V3054)

- (1) Microcomputer normal monitor This monitor blinks while in normal operation, and turns on or off when a malfunction occurs.
- (2) Set mode display (LED) LEDs display mode according to the setting.
- (3) Mode setting switch Used to change mode.
- (4) Local setting switch Used to make local settings.

Si38-304 Field Setting

3. Field Setting

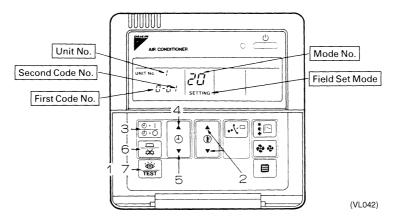
3.1 Field Setting from Remote Controller

Individual function of indoor unit can be changed from the remote controller. At the time of installation or after service inspection / repair, make the local setting in accordance with the following description.

Wrong setting may cause malfunction.

(When optional accessory is mounted on the indoor unit, setting for the indoor unit may be required to change. Refer to information in the option handbook.)

3.1.1 Wired Remote Controller <BRC1A61, 62>



- 1. When in the normal mode, push the enters the "field set mode." button for 4 seconds or more, and operation then
- 2. Select the desired "mode No." with the button.
- 3. During group control and you want to set by each individual indoor unit (when mode No. 20, 21, 22, 23, 25 has been selected), push the time mode button and select the "indoor unit No." to be set.

Note: This operation is not required when setting as a group.

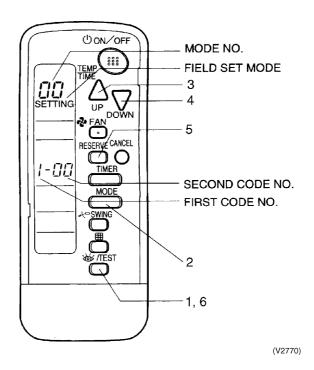
- 4. Push the button and select the first code No.
- 5. Push the \bigcirc button and select the second code No.
- 6. Push the timer button one time and "define" the currently set contents.
- 7. Push the button to return to the normal mode.

(Example)

When setting the filter sign time to "Filter Dirtiness-High" in all group unit setting, set the Mode No. to "10", Mode setting No. to "0" and setting position No. to "02".

Field Setting Si38-304

3.1.2 Wireless Remote Controller - Indoor Unit **BRC7C** type



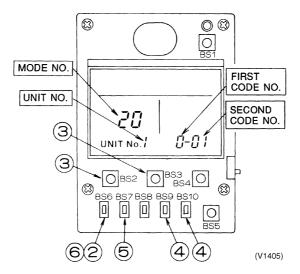
- 1. When in the normal mode, push the button for 4 seconds or more, and operation then enters the "field set mode."
- 2. Select the desired "mode No." with the button.
- 3. Pushing the \bigcirc button, select the first code No.
- 4. Pushing the button, select the second code No.
 5. Push the timer button and check the settings.
- 6. Push the button to return to the normal mode.

(Example)

When setting the filter sign time to "Filter Dirtiness-High" in all group unit setting, set the Mode No. to "10", Mode setting No. to "0" and setting position No. to "02".

Si38-304 Field Setting

3.1.3 Simplified Remote Controller BRC2A51



- Group No. setting by simplified remote controller.
- 1. Remove the cover of remote controller.
- 2. While in normal mode, press the [BS6] BUTTON (field set) to enter the FIELD SET MODE.
- 3. Select the mode No. [00] with [BS2] BUTTON (temperature setting ▲) and [BS3] BUTTON (temperature setting ▼).
- 4. Select the group No. with [BS9] BUTTON (set A) and [BS10] BUTTON (set B). (Group Nos. increase in the order of 1-00, 1-01......1-15, 2-00,.....4-15. However, the unified ON/OFF controller displays only group No. set within the range of control.)
- 5. Press [BS7] BUTTON (set/cancel) to set group No.
- 6. Press [BS6] BUTTON (field set) to return to the NORMAL MODE.

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3.1.4 Setting Contents and Code No. – VRV Unit

VRV	Mode	Setting	Setting Contents	Second Code No.(Note 3)								
system indoor	No. Note 2	Switch No.			0	1	0	2	0	13	()4
unit settings	10(20)	0	Filter contamination heavy/ light (Setting for display time to clean air filter) (Sets display time to clean air filter to half when there is	Super long life filter Long life	Light	Approx. 10,000 hrs. Approx.	Heavy	Approx. 5,000 hrs. Approx.	_	_	-	_
			heavy filter contamination.)	filter		2,500 hrs.		1,250 hrs.				
				Standard filter		Approx. 200 hrs.		Approx. 100 hrs.				
		1	Long life filter type		Long li	fe filter		ong life ter	-	_	-	_
		2	Thermostat sensor in remote	controller	U:	se	No	use	_	_		
		3	Display time to clean air filter calculation (Set when filter si to be displayed.)		Dis	play	No di	isplay		_		
	12(22)	0	Optional accessories output (field selection of output for a wiring)	selection daptor for	turned	or unit ON by nostat			Operation	onoutput		inction tput
		1	ON/OFF input from outside (ON/OFF is to be controlled froutside.)	Set when om	Force	d OFF	ON/OF	= control	_	_	-	_
		2	Thermostat differential changeover (Set when remote sensor is to be used.)		1'	°C	0.5°C		_		-	_
		3	OFF by thermostat fan speed		L	L	Set fan speed		_		-	_
		4	Automatic mode differential (temperature differential settir system heat recovery series	g for VRV	01:0	02:1	03:2	04:3	05:4	06:5	07:6	08:7
		5	Power failure automatic reset		Not eq	uipped	Equi	pped	_	_	-	_
	13(23)	0	High air outlet velocity (Set when installed in place whigher than 2.7 m.)	vith ceiling	1	٧	Н		S		-	_
		1	Selection of air flow direction (Set when a blocking pad kit installed.)		F (4 dir	ections)	T (3 directions)		W (2 directions)		-	_
		3	Air flow direction adjustment installation of decoration pan		Equi	pped	Not eq	uipped			-	_
		4	Field set air flow position set	ting	Draft pre	evention	Stan	dard	Ceiling Soiling prevention		_	_
		5	Field set fan speed selection (fan speed control by air disc outlet for phase control)	charge	Stan	dard	acces	onal sory 1		onal sory 2	-	_
	15(25)	1	Thermostat OFF excess hum	nidity	Not eq	uipped	Equi	pped				
		2	Direct duct connection (when the indoor unit and he ventilation unit are connected directly.) *Note 6	d by duct	Not eq	uipped	Equi	pped	_	_	-	
		3	Drain pump humidifier interloselection	ock	Not eq	uipped	Equi	pped	_	_	-	
		5	Field set selection for individuentilation setting by remote		Not eq	uipped	Equi	pped	_	_	_	_
		6	Field set selection for individuentilation setting by remote		Not eq	uipped	Equi	pped	_	_	-	

Notes:

- Settings are made simultaneously for the entire group, however, if you select the mode No.
 inside parentheses, you can also set by each individual unit. Setting changes however
 cannot be checked except in the individual mode for those in parentheses.
- 2. The mode numbers inside parentheses cannot be used by wireless remote controllers, so they cannot be set individually. Setting changes also cannot be checked.
- 3. Marked are factory set.
- 4. Do not make settings other than those described above. Nothing is displayed for functions the indoor unit is not equipped with.
- "88" may be displayed to indicate the remote controller is resetting when returning to the normal mode.
- 6. If the setting mode to "Equipped", heat reclaim ventilation fan conducts the fan residual operation by linking to indoor unit.

Si38-304 Field Setting

3.1.5 Applicable range of Field setting

	Ceiling mo	ounted cas	sette type	Ceiling	ing Ceiling	Ceiling	Wall	Floor	Conceale	Ceiling	Ceiling
	Multi flow	Double flow	Corner type	mounted built-in type	mounted duct type	suspende d type	type	standing type	d Floor standing type	mounted built-in (Rear suction type)	mounted low silhouette duct type
	FXF	FXC	FXK	FXS	FXM	FXH	FXA	FXL	FXN	FXYB	FXYD
Filter sign	0	0	0	0	0	0	0	0	0	0	0
Ultra long life filter sign	0	0	_	_	_	_	_	_	_	_	_
Remote controller thermostat sensor	0	0	0	0	0	0	0	0	0	0	0
Set fan speed when thermostat OFF	0	0	0	0	0	0	0	0	0	0	0
Air flow adjustment Ceiling height	0	_	_	_	_	0	_	_	_	_	_
Air flow direction	0	_	_	_	_	_	_	_	_	_	_
Air flow direction adjustment (Down flow operation)	_	_	0	_	_	_	_	_	_	_	_
Air flow direction adjustment range	0	0	0	_	_	_	_	_	_	_	_
Field set fan speed selection	0	_	_	_	_	0	_	_	_	_	_

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3.1.6 Detailed Explanation of Setting Modes

Filter Sign Setting

If switching the filter sign ON time, set as given in the table below.

Set Time

Filter Specs. Setting	Standard	Long Life	Ultra Long Life Filter
Contamination Light	200 hrs.	2,500 hrs.	10,000 hrs.
Contamination Heavy	100 hrs.	1,250 hrs.	5,000 hrs.

Ultra-Long-Life Filter Sign Setting

When a Ultra-long-life filter is installed, the filter sign timer setting must be changed.

Setting Table

Mode No.	Setting Switch No.	Setting Position No.	Setting
10 (20)	1	01	Long-Life Filter
		02	Ultra-Long-Life Filter (1)
		03	_

Fan Speed Changeover When Thermostat is OFF

By setting to "Set Fan Speed," you can switch the fan speed to the set fan speed when the heating thermostat is OFF.

* Since there is concern about draft if using "fan speed up when thermostat is OFF," you should take the setup location into consideration.

Setting Table

Mode No.	First Code No.	Second Code No.	Setting	
12(22)	3	01	LL Fan Speed	
		02	Set Fan Speed	

Auto restart after power failure reset

For the air conditioners with no setting for the function (same as factory setting), the units will be left in the stop condition when the power supply is reset automatically after power failure reset or the main power supply is turned on again after once turned off. However, for the air conditioners with the setting, the units may start automatically after power failure reset or the main power supply turned on again (return to the same operation condition as that of before power failure).

For the above reasons, when the unit is set enabling to utilize "Auto restart function after power failure reset", utmost care should be paid for the occurrence of the following situation.



- Caution 1. The air conditioner starts operation suddenly after power failure reset or the main power supply turned on again. Consequently, the user might be surprised (with question for the reason why).
 - 2. In the service work, for example, turning off the main power switch during the unit is in operation, and turning on the switch again after the work is completed start the unit operation (the fan rotates).

Si38-304 Field Setting

Air Flow Adjustment - Ceiling height

Make the following setting according to the ceiling height. The setting position No. is set to "01" at the factory.

■ In the Case of FXA, FXH

Mode No.	Setting Switch No.	Setting Position No.	Setting
		01	Wall-mounted type: Standard
13(23)	0	02	Wall-mounted type: Slight increase
		03	Wall-mounted type: Normal increase

■ In the Case of FXF25~80

Mode	First	Second		Ceiling height				
No.	code No.	code No.	Setting	4-way Outlets	3-way Outlets	2-way Outlets		
		01	Standard (N)	Lower than 2.7 m	Lower than 3.0 m	Lower than 3.5 m		
13 (23)	0	02	High Ceiling (H)	Lower than 3.0 m	Lower than 3.3 m	Lower than 3.8 m		
		03	Higher Ceiling (S)	Lower than 3.5 m	Lower than 3.5 m	_		

■ In the Case of FXF100~125

Mode	First	Second	0	Ceiling height				
No.	code No.	code No.	Setting	4-way Outlets	3-way Outlets	2-way Outlets		
		01	Standard (N)	Lower than 3.2 m	Lower than 3.6 m	Lower than 4.2 m		
13 (23)	0	02	High Ceiling (H)	Lower than 3.6 m	Lower than 4.0 m	Lower than 4.2 m		
		03	Higher Ceiling (S)	Lower than 4.2 m	Lower than 4.2 m	_		

Air Flow Direction Setting

Set the air flow direction of indoor units as given in the table below. (Set when optional air outlet blocking pad has been installed.) The second code No. is factory set to "01."

Setting Table

Mode No.	First Code No.	Second Code No.	Setting
13 (23)	1	01	F: 4-direction air flow
		02	T: 3-direction air flow
		03	W : 2-direction air flow

Setting of Air Flow Direction Adjustment

Only the model FXK has the function.

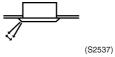
When only the front-flow is used, sets yes/no of the swing flap operation of down-flow.

Setting Table

Setting	Mode No.	First Code No.	Second Code No.
Down-flow operation: Yes	13 (23)	3	01
Down-flow operation: No			02

Setting of Air Flow Direction Adjustment Range

Make the following air flow direction setting according to the respective purpose.



Setting Table

Mode No.	First Code No.	Second Code No.	Setting
13 (23)	4	01	Upward (Draft prevention)
		02	Standard
		03	Downward (Ceiling soiling prevention)

Air flow rate switching at discharge grille for field air flow rate switching

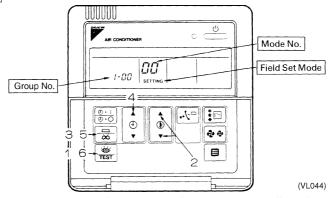
When the optional parts (high performance filter, etc.) is installed, sets to change fan speed for securing air flow rate.

Follow the instruction manual for the optional parts to enter the setting numbers.

3.1.7 Centralized Control Group No. Setting

BRC1A Type

- If carrying out centralized control by central remote controller or unified ON/OFF controller, group No. must be set for each group individually by remote controller.
- Group No. setting by remote controller for centralized control
- 1. When in the normal mode, push the then enters the "field setting mode." button for 4 seconds or more, and operation
- 2. Set mode No. "00" with the 🐧 button. *
- 3. Push the button to inspect the group No. display.
- 4. Set the group No. for each group with the button (The group No. increases in the manner of 1-00, 1-01, ...,1-15, 2-00,...4-15. However, the unified ON/OFF controller displays only the group No. within the range selected by the switch for setting each address.)
- 5. Push the timer \square button to define the selected group No.
- 6. Push the button to return to the normal mode.

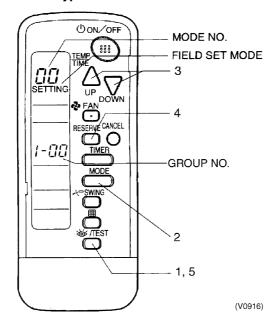


- Even if not using a remote controller, connect the remote controller when setting the group No., set the group No. for centralized control, and disconnect after making the setting.
- Set the group No. after turning on the power supply for the central remote controller, unified ON/OFF controller, and indoor unit.

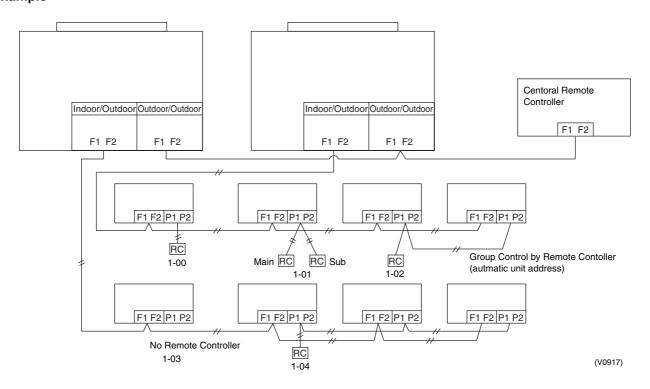
BRC7C Type

- Group No. setting by wireless remote controller for centralized control
- 1. When in the normal mode, push button for 4 seconds or more, and operation then enters the "field set mode."
- 2. Set mode No. "00" with button.
- 3. Set the group No. for each group with $\triangle \qquad \nabla$ button (advance/backward).
- 4. Enter the selected group numbers by pushing button.
- 5. Push button and return to the normal mode.

BRC7C Type



Group No. Setting Example



____ Caution

When turning the power supply on, the unit may often not accept any operation while "88" is displaying after all indications were displayed once for about 1 minute on the liquid crystal display. This is not an operative fault.

3.1.8 Setting of Operation Control Mode from Remote Controller (Local Setting)

The operation control mode is compatible with a variety of controls and operations by limiting the functions of the operation remote controller. Furthermore, operations such as remote controller ON/OFF can be limited in accordance with the combination conditions. (Refer to information in the table below.)

Centralized controller is normally available for operations. (Except when centralized monitor is connected)

3.1.9 Contents of Control Modes

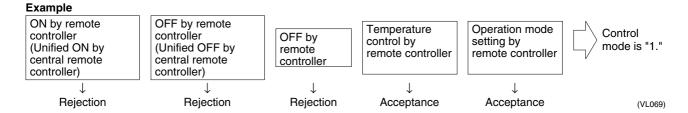
Twenty modes consisting of combinations of the following five operation modes with temperature and operation mode setting by remote controller can be set and displayed by operation modes 0 through 19.

- ON/OFF control impossible by remote controller
 Used when you want to turn on/off by central remote controller only.
 (Cannot be turned on/off by remote controller.)
- OFF control only possible by remote controller
 Used when you want to turn on by central remote controller only, and off by remote controller only.
- Centralized
 Used when you want to turn on by central remote controller only, and turn on/off freely by remote controller during set time.
- Individual
 Used when you want to turn on/off by both central remote controller and remote controller.

 Timer operation possible by remote centraller.
- Timer operation possible by remote controller Used when you want to turn on/off by remote controller during set time and you do not want to start operation by central remote controller when time of system start is programmed.

How to Select Operation Mode

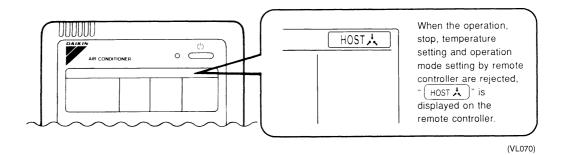
Whether operation by remote controller will be possible or not for turning on/off, controlling temperature or setting operation mode is selected and decided by the operation mode given on the right edge of the table below.



Control mode		Control by ren	note controller			Control mode
	Ope	ration	OFF	Temperature	Operation	
	Unified operation, individual operation by central remote controller, or operation controlled by timer	Unified OFF, individual stop by central remote controller, or timer stop		control	mode setting	
ON/OFF control	Rejection (Example)	Rejection (Example)	Rejection	Rejection	Acceptance	0
impossible by remote controller			(Example)		Rejection	10
				Acceptance (Example)	Acceptance (Example)	1(Example)
					Rejection	11
OFF control only			Acceptance	Rejection	Acceptance	2
possible by remote controller					Rejection	12
				Acceptance	Acceptance	3
					Rejection	13
Centralized	Acceptance			Rejection	Acceptance	4
					Rejection	14
				Acceptance	Acceptance	5
					Rejection	15
Individual		Acceptance		Rejection	Acceptance	6
					Rejection	16
				Acceptance	Acceptance	7 *1
					Rejection	17
Timer operation	Acceptance	Acceptance		Rejection	Acceptance	8
possible by remote controller	(During timer at ON position only)	(During timer at ON position only)			Rejection	18
	position only)	position only)		Acceptance	Acceptance	9
					Rejection	19

Do not select "timer operation possible by remote controller" if not using a remote controller. Operation by timer is impossible in this case.

*1. Factory setting



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3.2 Field Setting from Outdoor Unit

3.2.1 Field Setting from Outdoor Unit

■ Setting by dip switches

The following field settings are made by dip switches on PC board.

	Dipswitch	Cotting itom	Description					
No.	Setting	Setting item	Description					
DC1 1	ON	Cool / Hook ool ook	Used to set cool / heat select by remote controlle					
DS1-1	OFF (Factory set)	Cool / Heat select	equipped with outdoor unit.					
DS1-2	ON	Netwood	Do not also so the feetow, cottings					
	OFF (Factory set)	Not used	Do not change the factory settings.					
DS2-1	ON	Matrical	Do not also and the feetane atti					
~4	OFF (Factory set)	Not used	Do not change the factory settings.					
DS3-1,	ON	Matrical	Do not also and the feet and all the					
2	OFF (Factory set)	Not used	Do not change the factory settings.					



DIP switch Setting after changing the main P.C.Board(A1P) to spare parts P.C.B.

When you change the main P.C.Board(A1P) to spare parts P.C.B., please carry out the following setting.



DIP Switch Detail

DS No.	Item					Con	tents					
DS1-1	Cool/Heat change over setting	ON		Cool/He T chang								
		OFF	The C	Cool/Hea	at chang eover re	ge over emote c	setting ontrolle	is not car r fitted t	arried o	ut by C or unit.	00L/	
DS1-2	Domestic/Overseas	ON	Domestic Japan									
	setting	OFF	Overseas									
DS1-3	Cooling only/Heat-	ON	Cooling only									
	pump setting	OFF	Heat-	-pump								
DS1-4	Not used	OFF	Do no	ot chan	ge the	actory	settings	S.				
DS2-1	Not used	OFF	(Refr	igerant	classifi	cation)	Ū					
DS2-2	HP setting (Horse power)			5	6	8	10	12	14	16	HP	
DS2-3	()	DS2	-2	OFF	ON	OFF	ON	OFF	ON	OFF		
		DS2	:-3	OFF	OFF	ON	ON	OFF	OFF	ON		
DS2-4		DS2	-4	OFF	OFF	OFF	OFF	ON	ON	ON]	

Setting by pushbutton switches

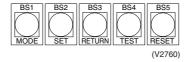
The following settings are made by pushbutton switches on PC board.

In case of multi-outdoor unit system, various items should be set with the master unit. (Setting with the slave unit is disabled.)

The master unit and slave unit can be discriminated with the LED indication as shown below.

	H1P	H2P	H3P	H4P	H5P	H6P	H7P	H8P
Master unit	•	•	0	•	•	•	•	0
Slave unit 1	•	•	•	•	•	•	•	•
Slave unit 2	•	•	•	•	•	•	•	•

(Factory setting)



There are the following three setting modes.

① Setting mode 1 (H1P off)

Initial status (when normal): Used to select the cool/heat setting. Also indicates during "abnormal", "low noise control" and "demand control".

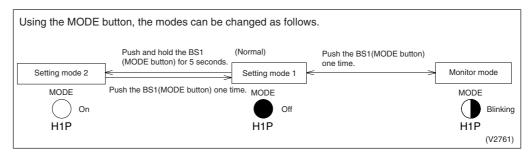
2 Setting mode 2 (H1P on)

Used to modify the operating status and to set program addresses, etc. Usually used in servicing the system.

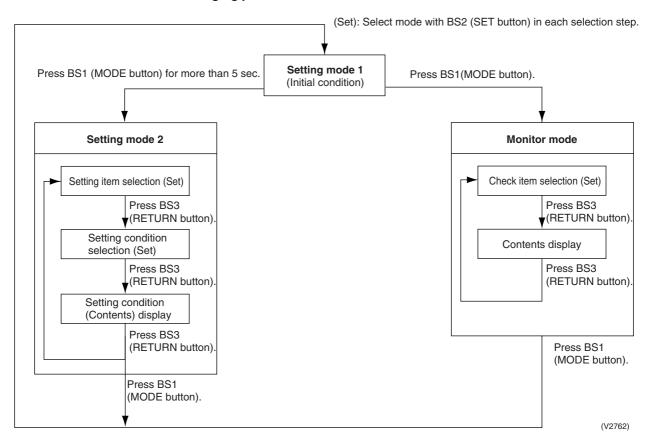
3 Monitor mode (H1P blinks)

Used to check the program made in Setting mode 2.

■ Mode changing procedure



■ Mode changing procedure



a. "Setting mode 1"

"Normally, "Setting mode 1" is set. In case of other status, push MODE button (BS1) one time and set to "Setting mode 1".

<Selection of setting items>

Push the SET button (BS2) and set LED display to a setting item you want.

- Regarding setting item No. 1,5,6, only the present status is displayed. For the respective description, refer to the table shown on lower right.
- The cool/heat selection setting can be changed on setting item 2, 3, 4.
 → After setting, push the RETURN button (BS3) and decide the item.

When the RETURN button (BS3) is pushed, the status becomes the initial status of "Setting mode 1".

(V2763)

No.	Catting (diaplaying) item	LED display example									
INO.	Setting (displaying) item	H1P	H2P	H3P	H4P	H5P	H6P	H7P			
1	Display for malfunction / preparing / test run *	•	•	0	•	•	•	•			
2	C/H selector (individual)	•	•	0	•	•	•	•			
3	C/H selector (Master)	•	•	•	0	•	•	•			
4	C/H selector (Slave)	•	•	•	•	0	•	•			
5	Low noise operation *	•	•	0	•	•	•	•			
6	Demand operation *	•	•	0	•	•	•	•			

^{*} Setting No. 1, 5, 6 are the present status display only.

Display for malfunction/preparing/test-run

Normal	•	•	0	•	•	•	•
Malfunction	•	0	0	•	•	•	•
Preparing/Test-run	•	•	0	•	•	•	•

Display during low noise operation

Normal	•	•	0	•	•	•	•
During low noise operation	•	•	0	•	•	0	•

H3P to H5P LED display changes depending on setting No. 2, 3, 4.

Display during demand operation

Normal	•	•	0	•	•	•	•
During demand operation	•	•	0	•	•	•	0

H3P to H5P LED display changes depending on setting No. 2, 3, 4.



b. "Setting mode 2"

Push and hold the MODE button (BS1) for 5 seconds and set to "Setting mode 2".

<Selection of setting items>

Push the SET button (BS2) and set the LED display to a setting item shown in the table on the right.

Push the RETURN button (BS3) and decide the item. (The present setting condition is blinked.)

<Selection of setting conditions>

Push the SET button (BS2) and set to the setting condition you want.

Push the RETURN button (BS3) and decide the condition.

Push the RETURN button (BS3) and set to the initial status of "Setting mode 2".

 If you become unsure of how to proceed, push the MODE button (BS1) and return to setting mode 1.

(V2764)

No.	Setting item	Description
0	EMG (Emergency operation 1)	Operates by Standard compressor only when inverter compressor malfunctions. Temporary operation until the compressor is replaced. Since the comfortability is extremely deteriorated, immediately replace the compressor. (This setting is not applicable to RXY5M.)
1	Cool/heat unified address	Sets address for cool/heat unified operation.
2	Low noise/demand address	Address for low noise/demand operation
5	Indoor unit forced fan H	Allows forced operation of indoor unit fan while unit is stopped. (H tap)
6	Indoor unit forced operation	Allows forced operation of indoor unit.
8	Te setting	Target evaporation temperature for cooling
9	Tc setting	Target condensation temperature for heating
10	Defrost changeover setting	Changes the temperature condition for defrost and sets to quick defrost or slow defrost.
11	Sequential operation setting	Sets sequential operation
12	External low noise setting / Demand setting	Reception of external low noise or demand signal
13	AIRNET address	Set address for AIRNET.
18	High static pressure setting	Make this setting in the case of operating in high static pressure mode with diffuser duct mounted.
19	Emergency operation (STD compressor operation prohibited)	Used to operate system only with inverter compressor when STD compressor malfunctions. This is a temporary operation extremely impairing comfortable environment. Therefore, prompt replacement of the compressor is required. (This operation, however, is not set with RXY5M.)
20	Additional refrigerant charge operation setting	Carries out additional refrigerant charge operation.
21	Refrigerant collection mode setting	Sets to refrigerant collection mode.
22	Night-time low noise setting	Sets automatic nighttime low noise operation in a simple way. The operating time is based on "Starting set" and "Ending set".
25	Low noise setting	Sets low noise level when the low noise signal is input from outside.
26	Night-time low noise control starting setting	Sets starting time of nighttime low noise operation. (Nighttime low noise setting is also required.)
27	Night-time low noise control ending setting	Sets ending time of nighttime low noise operation. (Nighttime low noise setting is also required.)
28	Power transistor check mode *Check after disconnection of compressor wires	Used for trouble diagnosis of DC compressor. Since the waveform of inverter is output without wiring to the compressor, it is convenient to probe whether the trouble comes from the compressor or PC board.
29	Capacity precedence setting	If the capacity control is required, the low noise control is automatically released by this setting during carrying out low noise operation and nighttime low noise operation.
30	Demand setting 1	Changes target value of power consumption when demand control 1 is input.
32	Normal demand setting	Normally enables demand control 1 without external input. (Effective to prevent a problem that circuit breaker of small capacity is shut down due to large load.

No.	Setting item	Description
38	Emergency operation (Setting for the master unit operation prohibition in multi- outdoor-unit system)	
39	Emergency operation (Setting for the slave unit 1 operation prohibition in multi- outdoor-unit system)	Used to temporarily prohibit the applicable outdoor unit from operating should there be any faulty part in multi-outdoor-unit system. Since the comfortable environment is extremely impaired, prompt replacement of the part is required.
40	Emergency operation (Setting for the slave unit 2 operation prohibition in multi- outdoor-unit system)	

	Setting item display															
No.	Setting item	MODE	TEST		/H selection		Low	Demand	Setting	condi	tion dis	splay				
	Setting item	H1P	H2P	IND H3P	Master H4P	Slave H5P	noise H6P	H7P						* Fa	ctory	/ set
0	EMG (emergency operation) INV compressor	0	•	•	•	•	•	•	Normal operation Emergency operation		0					*
	operation inhibited.								3 7 1			•				_
									Address Binary number	0	0				•	*
1	Cool / Heat Unified address	0	•	•	•	•	•	0	(6 digits)	1	~				, ()	
									(o digita)	31			000	γ	١ _	
									Address	0		<u> </u>		<u> </u>		*
	Low noise/demand								Binary number	1	0					,
2	address	0	•	•	•	•	0	•	(6 digits)		~			-	Ū	
										31	0		00	<u>Э С</u>	0	
5	Indoor forced fan H	0				0		0	Normal operation		\circ		•		0	*
	indoor loiced lair i	O				O		O	Indoor forced fan H		\circ		•	D C)	
6	Indoor forced	0				0	0		Normal operation		\circ		•		0	*
	operation								Indoor forced operation		0	•	•	D C) •	
									High		\circ	•	• (•	
8	Te setting	0	•	•	0	•	•	•	Normal (factory setting)		\circ	•	•	• C)	*
									Low		0	•	•		0	
			_	_		_	_		High		\circ	•		\supset	•	
9	Tc setting	0	•	•	0	•	•	0	Normal (factory setting)		\circ	•		D C) •	*
									Low		0 (<u> </u>	• (<u> </u>	0	
	5								Quick defrost		0		• () (•	
10	Defrost setting	0		•	0		0	•	Normal (factory setting)		0) •	*
									Slow defrost OFF		0	,) (
11	Sequential operation setting	0	•	•	0	•	0	0	ON						, O	*
									External low noise/demand	:) (
12	External low noise/ demand setting	0	•	•	0	0	•	•	NO		0				,	•
	domand cotting								External low noise/demand YES		0	•		D C) •	
									Address	0	\circ		•		•	*
13	Airnet address	0	•	•	0	0	•	0	Binary number	1	\circ	•	•		0	
		Ü							(6 digits)		~					
									History and a second services	63	0) C	0 (<u>Э С</u>		
18	High static pressure	0		0			0		High static pressure setting OFF	:	0) •	0	*
	setting)							High static pressure setting ON	:	\circ	•	•	C	•	
	Emergency								OFF		0		•		•	*
19	operation (STD compressor is	0	•	0	•	•	0	0	STD 1, 2 operation: Inhibite	d	0				0	
	inhibited to operate.)								STD 2 operation: Inhibited		0			• C	•	
20	Additional refrigerant	0		0		0			Refrigerant charging: OFF		0				0	*
20	operation setting)		O)			Refrigerant charging: ON		\circ		•	D C)	
21	Refrigerant recovery	0		0		0		0	Refrigerant recovery: OFF		\circ		•		0	*
	mode setting))			Refrigerant recovery: ON		\circ			D C)	
									OFF		0	•	•		•	*
22	Night-time low noise	0	•	0		0	0	•	Level 1 (outdoor fan with 8 step or lowe		0	•	•	•) ()	
	setting								Level 2 (outdoor fan with 7 step or lowe		0	•	•	• C)	
									Level 3 (outdoor fan with 6 step or lowe		0 (•		• C	0	
٠									Level 1 (outdoor fan with 8 step or lowe		0		• (•	0	
25	Low noise setting	0	•	0	0			0	Level 2 (outdoor fan with 7 step or lowe		0 (D C) •	*
									Level 3 (outdoor fan with 6 step or lower	*	0			\supset	,	

			Settin										
No.		MODE	TEST		/H selection		Low	Demand	Setting con	dition display			
	Setting item	H1P	H2P	IND H3P	Master H4P	Slave H5P	noise H6P	H7P			* Fa	actory	set
	Night-time low noise								About 20:00	$\circ \bullet \bullet \bullet$	•		
26		0	•	0	0	•	0	•	About 22:00 (factory	$\circ \bullet \bullet \bullet$		•	*
	Setting								About 24:00	$\circ \bullet \bullet \bullet$	0		
									About 6:00	$\circ \bullet \bullet \bullet$	•		
27	Night-time low noise operation end setting	0	•	0	0	•	0	0	About 7:00	$\circ \bullet \bullet \bullet$	• (•	
									About 8:00 (factory setting)	$\circ \bullet \bullet \bullet$	0	•	*
28	Power transistor	0		0	0	0			OFF	$\circ \bullet \bullet \bullet$	•		*
20	check mode	0							ON	$\circ \bullet \bullet \bullet$	• (•	
29	Capacity	0		0	0	0		0	OFF	$\circ \bullet \bullet \bullet$	•		*
29	precedence setting	0							ON	$\circ \bullet \bullet \bullet$	• (•	
									60 % demand	$\circ \bullet \bullet \bullet$	• (0	
30	Demand setting 1	0	•	0	0	0	0	•	70 % demand	$\circ \bullet \bullet \bullet$	• (•	*
									80 % demand	$\circ \bullet \bullet \bullet$	0		
32	Continuous demand	0	0						OFF	$\circ \bullet \bullet \bullet$	•		*
32	setting))	•					ON	$\circ \bullet \bullet \bullet$	• (•	
	Emergency operation								OFF	$\circ \bullet \bullet \bullet$	•		*
38	(Master unit with multi-outdoor-unit system is inhibited to operate.)	0	0	•	•	0	0	•	Master unit operation: Inhibited		• •	0	•
	Emergency operation								OFF	$\circ \bullet \bullet \bullet$	•		*
39	(Slave unit 1 with multi-outdoor-unit	0	0	•	•	0	0	0					
	system is inhibited to operate.)								Slave unit 1 operation: Inhibite	d () • •	• •	\circ	•
	Emergency operation								OFF	$\circ \bullet \bullet \bullet$	•		*
40	(Slave unit 2 with multi-outdoor-unit system is inhibited to operate.)	0	0	•	0	•	•	•	Slave unit 2 operation: Inhibite	d 🔾 🌑 🖜	• •	0	•

c. Monitor mode

To enter the monitor mode, push the MODE button (BS1) when in "Setting mode 1".

<Selection of setting item>

Push the SET button (BS2) and set the LED display to a setting item.

<Confirmation on setting contents>

Push the RETURN button (BS3) to display different data of set items.

Push the RETURN button (BS3) and switches to the initial status of "Monitor mode".

* Push the MODE button (BS1) and returns to "Setting mode 1".

(V2765)

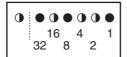
NI-	Oathin a ite as				Data diaplay				
No.	Setting item	H1P	H2P	НЗР	H4P	H5P	H6P	H7P	- Data display
0	Number of units for sequential starting, and others	•	•	•	•	•	•	•	See below
1	C/H unified address	•	•	•	•	•	•	0	
2	Low noise/demand address	•	•	•	•	•	0	•	
3	Not used	•	•	•	•	•	0	0	
4	Airnet address	•	•	•	•	0	•	•	
5	Number of connected indoor units	•	•	•	•	0	•	0	Lower 6 digits
6	Number of connected BS units	•	•	•	•	0	0	•	
7	Number of connected zone units (excluding outdoor and BS unit)		•	•	•	0	0	0	
8	Number of outdoor units	•	•	•	0	•	•	•	
9	Number of connected BS units	•	•	•	0	•	•	0	Lower 4 digits: upper
10	Number of connected BS units	•	•	•	0	•	0	•	Lower 4 digits: lower
11	Number of zone units (excluding outdoor and BS unit)	•	•	•	0	•	0	0	Lower 6 digits
12	Number of terminal blocks	•	•	•	0	0	•	•	Lower 4 digits: upper
13	Number of terminal blocks	•	•	•	0	0	•	0	Lower 4 digits: lower
14	Contents of malfunction (the latest)	0	•	•	0	0	0	•	Malfunction code table
15	Contents of malfunction (1 cycle before)	0	•	•	0	0	0	0	Refer page 154, 155.
16	Contents of malfunction (2 cycle before)	0	•	0	•	•	•	•	,
20	Contents of retry (the latest)	0	•	0	•	0	•	•	
21	Contents of retry (1 cycle before)	0	•	0	•	0	•	0	
22	Contents of retry (2 cycle before)	0	•	0	•	0	0	•	

Setting item 0 Display contents of "Number of units for sequential start, and others"

Number of units for sequential start	1 unit	•	•	•	•	•	•	•
Start	2 units	•	•	•	•	•	•	•
	3 units	•	•	0	•	•	•	•
EMG operation /backup operation setting	ON	•	•	•	0	•	•	•
operation setting	OFF	•	•	•	•	•	•	•
Defrost select setting	Short	•	•	•	•	0	•	•
	Medium	•	•	•	•	•	•	•
	Long	•	•	•	•	•	•	•
Te setting	Н	•	•	•	•	•	0	•
	М	•	•	•	•	•	•	•
	L	•	•	•	•	•	•	•
Tc setting	Н	•	•	•	•	•	•	0
	М	•	•	•	•	•	•	•
	L	•	•	•	•	•	•	•

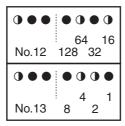
Push the SET button and match with the LEDs No. 1 - 15, push the RETURN button, and enter the data for each setting.

★ Data such as addresses and number of units is expressed as binary numbers; the two ways of expressing are as follows:



The No. 1 cool/heat unified address is expressed as a binary number consisting of the lower 6 digits. (0 - 63)

In 1 the address is 010110 (binary number), which translates to 16 + 4 + 2 = 22 (base 10 number). In other words, the address is 22.



The number of terminal blocks for No. 12 and 13 is expressed as an 8-digit binary number, which is the combination of four upper, and four lower digits for No. 12 and 13 respectively. (0 - 128) In ② the address for No. 12 is 0101, the address for No. 13 is 0110, and the combination of the two is 01010110 (binary number), which translates to 64 + 16 + 4 + 2 = 86 (base 10 number). In other words, the number of terminal block is 86..

 \star See the preceding page for a list of data, etc. for No. 0 - 22.

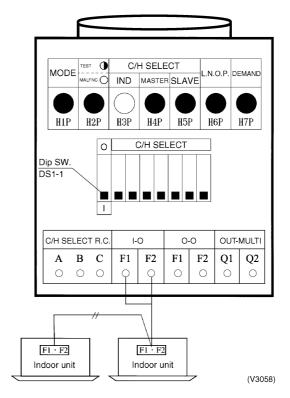
3.2.2 Cool / Heat Mode Switching

There are the following 5 cool/heat switching modes.

- ① Set cool/heat separately for each outdoor unit system by indoor unit remote controller.
- ② Set cool/heat separately for each outdoor unit system by cool/heat switching remote controller.
- 3 Set cool/heat for more than one outdoor unit system simultaneously in accordance with unified master outdoor unit by indoor unit remote controller.
- Set cool/heat for more than one outdoor unit system simultaneously in accordance with
 unified master outdoor unit by cool/heat switching remote controller.

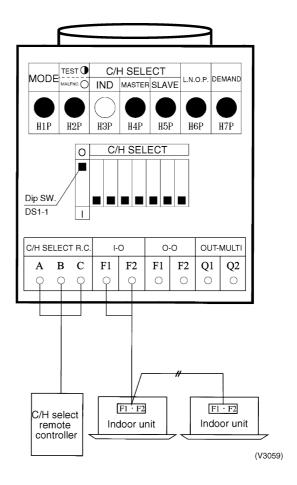
① Set Cool/Heat Separately for Each Outdoor System by Indoor Unit Remote Controller

- It does not matter whether or not there is outdoor outdoor unit wiring.
- ◆ Set outdoor unit PC board DS1-1 to "indoor" (factory set).
- ◆ Set cool/heat switching to "individual" for "Setting mode 1" (factory set).

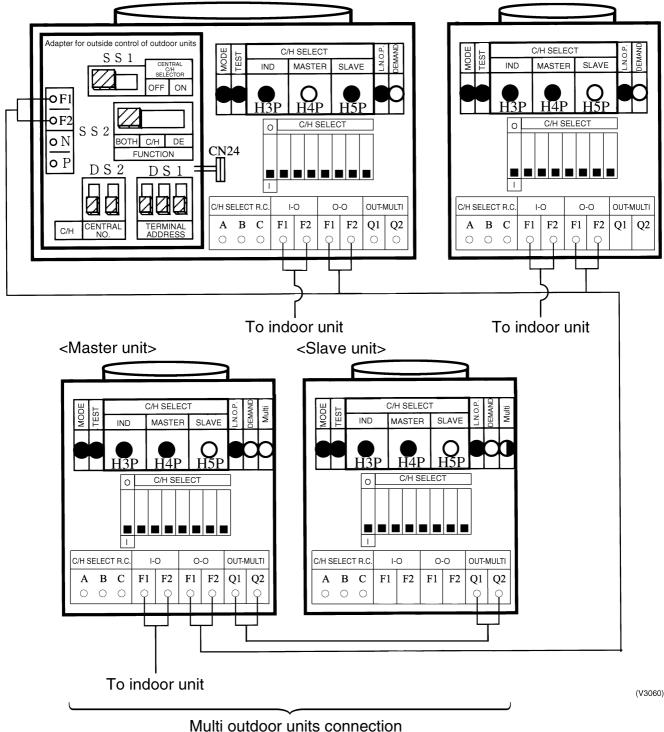


2 Set Cool / Heat Separately for Each Outdoor Unit System by Cool/Heat Switching Remote Controller

- ◆ It does not matter whether or not there is outdoor outdoor unit wiring.
- ◆ Set outdoor unit PC board DS1-1 to "outdoor" (factory set).
- ◆ Set cool/heat switching to "individual" for "Setting mode 1" (factory set).



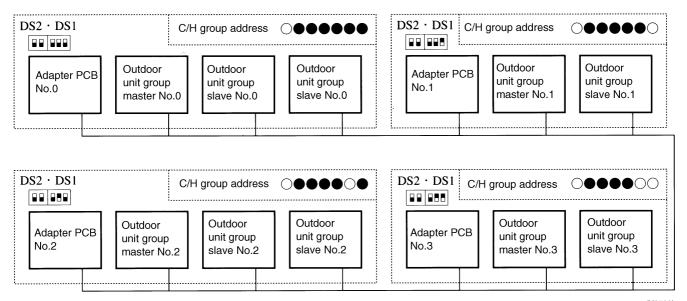
- 3 Set Cool / Heat for More Than One Outdoor Unit System Simultaneously in Accordance with Unified **Master Outdoor Unit by Indoor Unit Remote Controller**
 - ♦ Install the outdoor unit external control adapter on either the outdoor-outdoor, indooroutdoor, or transmission line.
 - Set outdoor unit PC board DS1-1 to "Indoor" (factory set).
 - In setting mode 1, set the outdoor unit you want to give cool/heat selection permission to as the group master, and set the other outdoor units as group slave units.
 - Set the outdoor unit external control adapter SS1 to Unified (factory set) or Cool, and SS2 to No (factory set).



- Set Cool / Heat for More Than One Outdoor Unit System Simultaneously in Accordance with Unified Master Outdoor Unit by Cool/Heat Switching Remote Controller
 - ◆ Add and change the following items to ③.
 - ★ Install cool/heat switching remote controller on the group master outdoor unit.
 - \star Set SS1 on the group master outdoor unit PC board.

Supplementation on 3 and 4.

When switching cool/heat for each adapter PC board with the use of more than one adapter PC board, set the address of the adapter PC board DS1 and DS2 so that it matches the unified cool/heat address of outdoor unit PC board.



(V2723)

Address setting for ③ and ④ (Set lower 5 digits with binary number.) [No.0 to No.31]

Address	Outdoor unit PCB LED		Adapter F	СВ		
No.	Set with setting mode 2	DS2	2	DS1		
No 0						0
No 1	$\circ \bullet \qquad \bullet \bullet \bullet \circ $					1
No 2	$\circ \bullet \qquad \bullet \bullet \circ \circ \bullet $					2
No 3	$\circ \bullet \qquad \bullet \bullet \circ \circ \circ $					3
No 4					****	4
1	ì		1			
No 30	○ ● ○ ○ ○ ○ ● 30					30
No 31	○ ● ○ ○ ○ ○ ○ ○ ○ 31			****		31
	○ ON ● OFF Upper position (0	ON) Id	ower position (C		shows	knob)
					(V	(2724)

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3.2.3 Setting of Low Noise Operation and Demand Operation

Setting of Low Noise Operation

By connecting the external contact input to the low noise input of the outdoor unit external control adapter (optional), you can lower operating noise by 2-3 dB.

A. When the low noise operation is carried out by external instructions (with the use of the outdoor unit external control adapter)

- 1. Set "External low noise / Demand YES/NO setting" to "External low noise / Demand YES". (Set by Setting Mode 2)
- 2. Set "External low noise level setting" on the outdoor unit PC board, as the need arises. (Lower noise operation can be carried out by "Mode 2" than by "Mode 1", and by "Mode 3" than by "Mode 2".)
- 3. Set "Capacity precedence setting" on the outdoor unit PC board, as the need arises. (If set to "ON", when air conditioning load gets higher, the low noise instructions are neglected to switch to normal operation.) (Set by Setting Mode 2)

B. When the low noise operation is carried out automatically at night (The outdoor unit external control adapter is not required)

- Set "Night-time low noise setting" on the outdoor unit PC board. (Set by Setting Mode 2)
 (Lower noise operation can be carried out by "Mode 2" than by "Mode 1", and by "Mode 3"
 than by "Mode 2".)
- 2. Set "Night-time low noise start setting" on the outdoor unit PC board, as the need arises. (Set by Setting Mode 2)
 - (Since the time is presumed in accordance with the outdoor temperature, the starting time is a target only.)
- Set "Night-time low noise end setting" on the outdoor unit PC board, as the need arises.
 (Set by Setting Mode 2)
 - (Since the time is presumed in accordance with the outdoor temperature, the ending time is a target only.)
- 4. Set "Capacity precedence setting" on the outdoor unit PC board, as the need arises. (Set by Setting Mode 2)

 (If set to "ON" when air conditioning load gets higher, the status is switched to parm:
 - (If set to "ON", when air conditioning load gets higher, the status is switched to normal operation even at night.)

Image of operation in the case of A

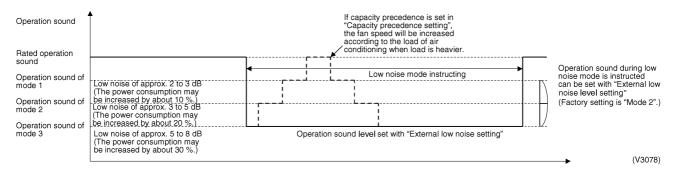


Image of operation in the case of B

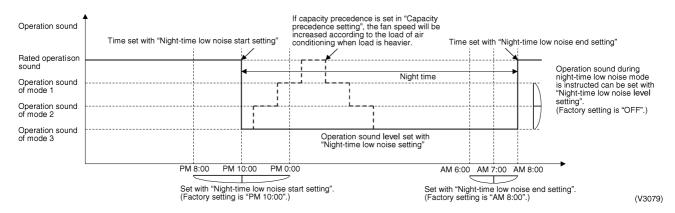
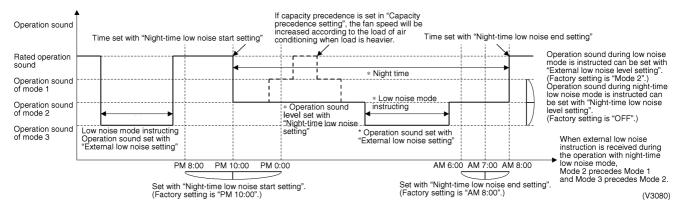


Image of operation in the case of A, B



Setting of Demand Operation

By connecting the external contact input to the demand input of the outdoor unit external control adapter (optional), the power consumption of unit operation can be saved suppressing the compressor operating condition.

- A. When the demand operation is carried out by external instructions (with the use of the outdoor unit external control adapter).
- Set the "External low noise/Demand YES/NO setting" switch on the outdoor unit PCB to the "External low noise/Demand YES".
 (Set by Setting Mode 2)
- Set the "Demand 1 level setting" on the outdoor unit PCB, as the need arises. (During the demand level 1 instruction, the power consumption can be saved to 80 %, 70 % or 60 % of the rated value respectively.)
- B. When the continuous demand operation is carried out. (Use of the outdoor unit external control adapter is not required.)
- Set the "Continuous demand setting" on the outdoor unit PCB.
- If the "Continuous demand setting" is set to the "Continuous demand 1 fixing", set the "Demand 1 setting " on the outdoor unit PCB, as the need arises.

 (During the continuous demand level 1 operation, the power consumption can be saved to 80 %, 70 % or 60 % of the rated value respectively.)

Image of operation in the case of A

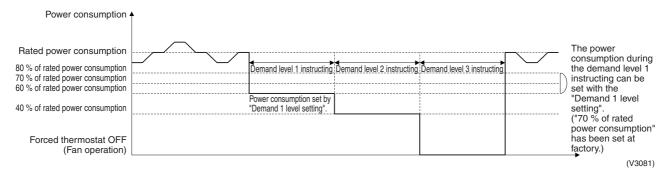


Image of operation in the case of B

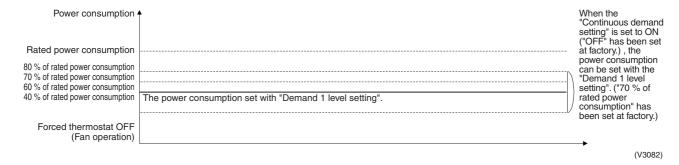
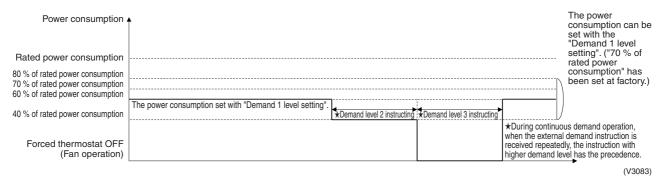


Image of operation in the case of A and B



Detailed Setting Procedure of Low Noise Operation and Demand Control

1. Setting mode 1 (H1P off)

 \odot In setting mode 2, push the BS1 (MODE button) one time. \rightarrow Setting mode 2 is entered and H1P lights.

During the setting mode 1 is displayed, "In low noise operation" and "In demand control" are displayed.

2. Setting mode 2 (H1P on)

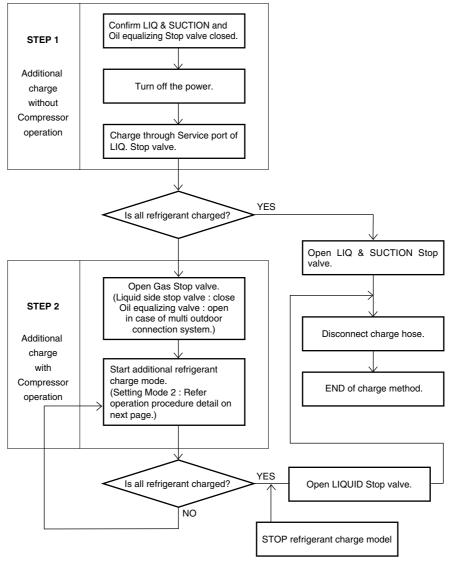
- ① In setting 1, push and hold the BS1 (MODE button) for more than 5 seconds. → Setting mode 2 is entered and H1P lights.
- ② Push the BS2 (SET button) several times and match the LED display with the Setting No. vou want.
- ③ Push the BS3 (RETURN button) one time, and the present setting content is displayed. → Push the BS2 (SET button) several times and match the LED display with the setting content (as shown below) you want.
- 9 Push the BS3 (RETURN button) two times. \rightarrow Returns to 0.
- $\ \ \$ Push the BS1 (MODE button) one time. $\ \rightarrow$ Returns to the setting mode 1 and turns H1P off.

		1							2								3										
Setting No.	Setting contents		S	etting	No. in	dicatio	on			S	etting	No. in	dicatio	n		Setting contents	Settir	ng con	itents i	ndicat	ion (In	itial se	tting)				
	0011101110	H1P	H2P	НЗР	H4P	H5P	H6P	H7P	H1P	H2P	НЗР	H4P	H5P	H6P	H7P	00.110	H1P	H2P	НЗР	H4P	H5P	H6P	H7P				
22	Night-time low noise setting	0	•	•	•	•	•	•	0	•	0	•	0	0	•	OFF (Factory setting)	0	•	•	•	•	•	•				
																Mode 1	0	•	•	•	•	•	0				
																Mode 2	0	•	•	•	•	0	0				
																Mode 3	0	•	•	•	•	0	0				
25	External low noise								0	•	0	0	•	•	0	Mode 1	0	•	•	•	•	•	0				
	setting															Mode 2 (Factory setting)	0	•	•	•	•	©	•				
																Mode 3	0	•	•	•	•	•	0				
26	Night-time								0	•	0	0	•	0	•	PM 8:00	0	•	•	•	•	0	•				
	low noise start setting															PM 10:00 (Factory setting)	0	•	•	•	0	•	•				
																	PM 0:00	0	•	•	•	•	•	0			
27	Night-time low noise end setting												0	•	0	0	•	0	0	AM 6:00	0	•	•	•	•	0	•
																	AM 7:00	0	•	•	•	0	•	•			
																AM 8:00 (Factory setting)	0	•	•	•	•	•	0				
29	Capacity precedence setting								0	•	0	0	0	•	0	Low noise precedence (Factory setting)	0	•	•	•	•	•	•				
																Capacity precedence	0	•	•	•	•	0	•				
30	Demand setting 1								0	•	0	0	0	0	•	60 % of rated power consumption	0	•	•	•	•	•	0				
																70 % of rated power consumption (Factory setting)	0	•	•	•	•	0	•				
																80 % of rated power consumption	0	•	•	•	0	•	•				
32	Continuous demand setting								0	•	•	•	•	•	•	OFF (Factory setting)	0	•	•	•	•	•	0				
																Continuous demand 1 fixed	0	•	•	•	•	0	•				
12	External low noise / Demand setting								0	•	•	0	0	•	•	NO (Factory set)	0	•	•	•	•	•	0				
	seung															YES	0	•	•	•	•	0	•				
			Settin	g mod	le indi	cation	sectio	n		Settin	ıg No.	indica	ion se	ection				Set c	ontent	s indic	ation s	ection					

3.2.4 Setting of Refrigerant Additional Charging Operation

When additional refrigerant is not charged all with outdoor unit in stop mode, operate the outdoor unit and charge the liquid refrigerant from the service port of liquid stop value. The additional charging operation is activated by pushbutton switch on the outdoor unit PC board.

[Additional refrigerant charge total flow]



(V2892)

[Operation procedure detail]

- After turning the respective remote switch of indoor and outdoor units off and charging the refrigerant, turn on the power of indoor and outdoor units.
 Do not fail to turn the power off and charge the refrigerant with outdoor unit in stop mode before adding the refrigerant following this procedure, otherwise resulting in trouble.
- ② Fully open the stop valve on the gas side and oil equalizing valve for multi outdoor connection, and do not fail to fully close the stop valve on the liquid side. (If the stop valve on the liquid side is open, the refrigerant cannot be charged.)
- In Setting mode 2 (H1P: ON) with outdoor unit in stop mode, Set "A Additional refrigerant charging operation" switch to ON to start the operation. (H2P turns to display TEST OPERATION (blinks), and "TEST OPERATION" and "IN CENTRALIZED CONTROL" are displayed on the remote controller.)
- When the refrigerant is charged up to the specified amount, press the RETURN button (BS3) to stop charging.
 - The charging operation is automatically stopped after operating for a maximum of about 30 minutes.
 - If the charging is not complete within 30 minutes, set the A Additional refrigerant charging operation again to start charging. When the charging immediately stops even by restarting, the refrigerant is charged excessively. The refrigerant cannot be charged any more.
- So not fail to fully open the stop valve on the liquid side as soon as disconnecting the refrigerant charging hose.

(The piping may be burst due to the liquid sealing.)

[Operation state]

• Compressor frequency: 210Hz

Y1S, Y2S, Y3S Solenoid valve : OpenOutdoor unit fan : High pressure control

• Indoor unit expansion valve (All unit): 1024 pulse

• Indoor unit fan : H tap

3.2.5 Setting of Refrigerant Recovery Mode

When carrying out the refrigerant collection on site, fully open the respective expansion valve of indoor and outdoor units

[Operation procedure]

- ① In setting mode 2 with units in stop mode, set "B Refrigerant Recovery / Vacuuming mode" to ON. The respective expansion valve of indoor and outdoor units are fully opened. (H2P turns to display "TEST OPERATION" (blinks), "TEST OPERATION" and "IN CENTRALIZED CONTROL" are displayed on the remote controller, and the operation is prohibited.
- © Collect the refrigerant using a refrigerant recovery unit. (See the instruction attached to the refrigerant recovery unit for more detal.)
- ③ Press Mode button "BS1" once and reset "Setting Mode 2".

3.2.6 Setting of Vacuuming Mode

In order to perform vacuuming operation at site, fully open the expansion valves of indoor and outdoor units to turn on some solenoid valves.

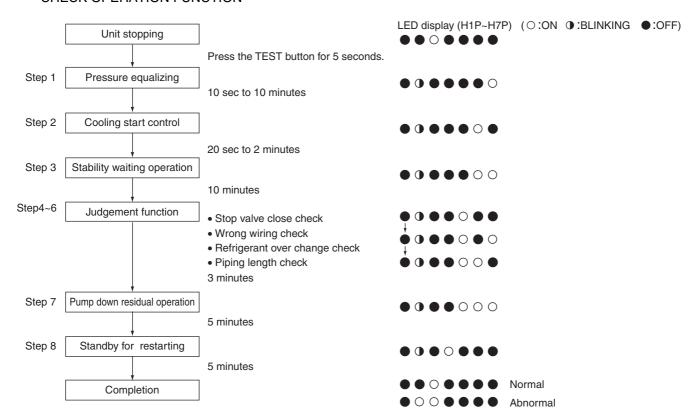
[Operating procedure]

- With Setting Mode 2 while the unit stops, set (B) Refrigerant recovery / Vacuuming mode to ON. The expansion valves of indoor and outdoor units fully open and some of solenoid valves open.
 - (H2P blinks to indicate the test operation, and the remote controller displays "Test Operation" and "In Centralized control", thus prohibiting operation.)
 - After setting, do not cancel "Setting Mode 2" until completion of Vacuuming operation.
- ② Use the vacuum pump to perform vacuuming operation.
- ③ Press Mode button "BS1" once and reset "Setting Mode 2".

3.2.7 Check Operation

To prevent any trouble in the period of installation at site, the system is provided with a test operation mode enabling check for incorrect wiring, stop valve left in closed, coming out (or misplacing with suction pipe thermistor) of discharge pipe thermistor and judgment of piping length, refrigerant overcharging, and learning for the minimum opening degree of motorized valve.

CHECK OPERATION FUNCTION



3.2.8 Power Transistor Check Operation

When the inverter system malfunctions (malfunction of inverter, INV compressor), to locate where the malfunction occurs, switching to the power transistor check mode of inverter in the service mode setting enables not to judge the position detection signal malfunction but to output waveform only during inverter operation. (The waveform can be checked by disconnecting the wiring of compressor.)

Note:

Be sure to disconnect the compressor wiring when conducting the check operation mentioned above.

When the output voltage is approx. 50 V (10 Hz) and the voltage balance between phases U-V, V-W, W-U is within $\pm 5\%$, the inverter PCB is normal.

Part 6 Troubleshooting

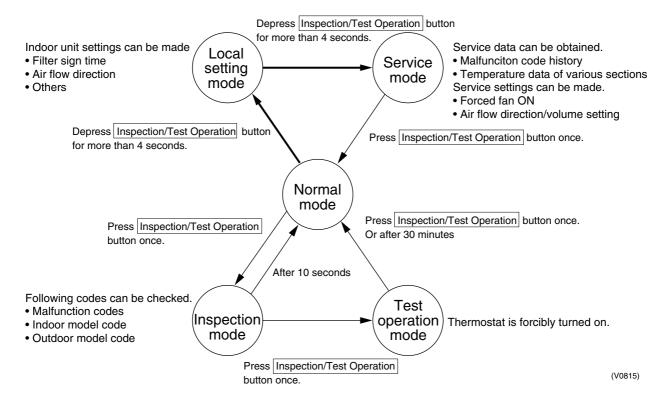
1.	Trou	bleshooting by Remote Controller	.165
	1.1	The INSPECTION / TEST Button	165
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1. Troubleshooting by Remote Controller

1.1 The INSPECTION / TEST Button

The following modes can be selected by using the [Inspection/Test Operation] button on the remote control.

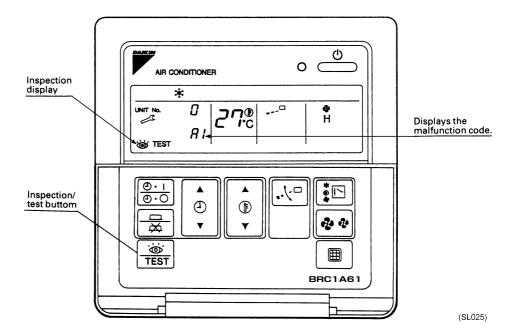


Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

1.2 Self-diagnosis by Wired Remote Controller

Explanation

If operation stops due to malfunction, the remote controller's operation LED blinks, and malfunction code is displayed. (Even if stop operation is carried out, malfunction contents are displayed when the inspection mode is entered.) The malfunction code enables you to tell what kind of malfunction caused operation to stop. See page 173 for malfunction code and malfunction contents.



Self-diagnosis by Wireless Remote Controller 1.3

In the Case of **BRC7C** ~ Type

If equipment stops due to a malfunction, the operation indicating LED on the light reception section flashes.

The malfunction code can be determined by following the procedure described below. (The malfunction code is displayed when an operation error has occurred. In normal condition, the malfunction code of the last problem is displayed.)

- 1. Press the INSPECTION/TEST button to select "Inspection." The equipment enters the inspection mode. The "Unit" indication lights and the Unit No. display shows flashing "0" indication.
- Set the Unit No.

Press the UP or DOWN button and change the Unit No. display until the buzzer (*1) is generated from the indoor unit.

*1 Number of beeps

3 short beeps: Conduct all of the following operations.

1 short beep: Conduct steps 3 and 4.

Continue the operation in step 4 until a buzzer remains ON. The continuous buzzer indicates that the malfunction code is confirmed.

Continuous beep: No abnormality.

3. Press the MODE selector button.

The left "0" (upper digit) indication of the malfunction code flashes.

4. Malfunction code upper digit diagnosis

Press the UP or DOWN button and change the malfunction code upper digit until the malfunction code matching buzzer (*2) is generated.

■ The upper digit of the code changes as shown below when the UP and DOWN buttons are pressed.



*2 Number of beeps

Continuous beep: Both upper and lower digits matched. (Malfunction code confirmed)

2 short beeps: Upper digit matched.

1 short beep: Lower digit matched.

5. Press the MODE selector button.

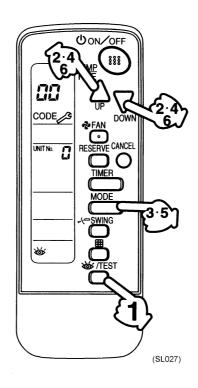
The right "0" (lower digit) indication of the malfunction code flashes.

6. Malfunction code lower digit diagnosis

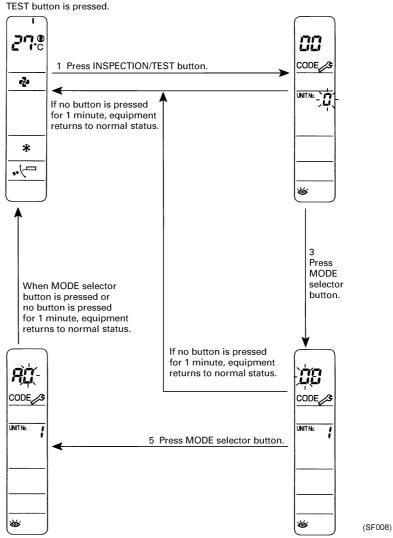
Press the UP or DOWN button and change the malfunction code lower digit until the continuous malfunction code matching buzzer (*2) is generated.

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

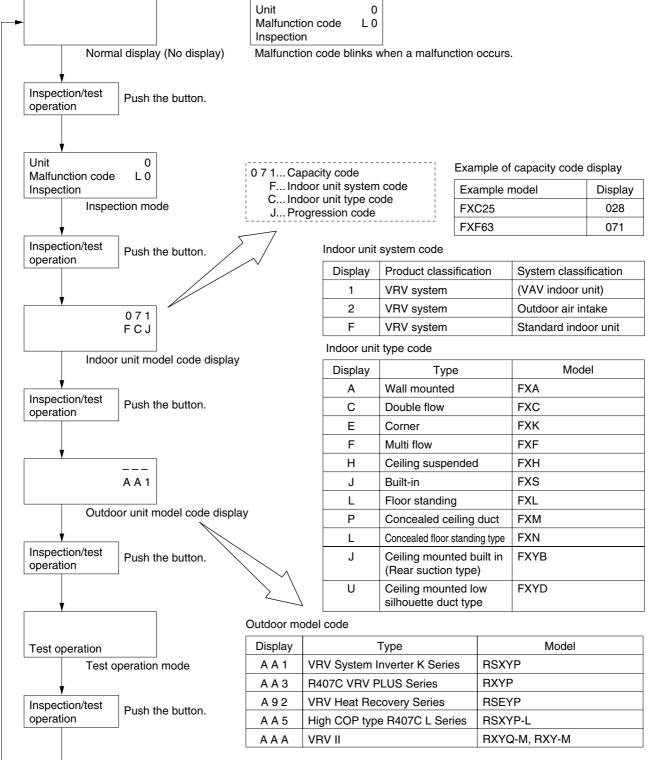
■ The lower digit of the code changes as shown below when the UP and DOWN buttons are pressed.



Normal status Enters inspection mode from normal status when the INSPECTION/



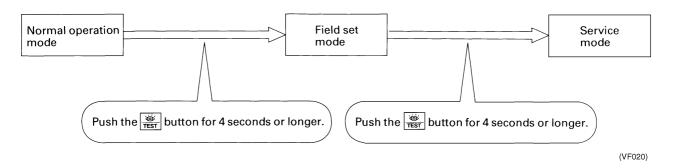
1.4 Operation of The Remote Controller's Inspection / Test Operation Button



(V2775)

1.5 Remote Controller Service Mode

How to Enter the Service Mode



Service Mode Operation Method

1. Select the mode No.

Set the desired mode No. with the button. (For wireless remote controller, Mode 43 only can be set.)

2. Select the unit No. (For group control only)

Select the indoor unit No. to be set with the time mode \bullet . (For wireless remote controller, \bullet) \bullet button.)

3. Make the settings required for each mode. (Modes 41, 44, 45)

In case of Mode 44, 45, push button to be able to change setting before setting work. (LCD "code" blinks.)

For details, refer to the table in next page.

4. Define the setting contents. (Modes 44, 45)

Define by pushing the timer \bigcirc button.

After defining, LCD "code" changes blinking to ON.

5. Return to the normal operation mode.

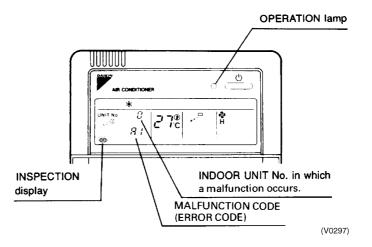
Push the button one time.

Mode No	Function	Contents and operation method	Remote controller display example
40	Malfunction hysteresis display	Display malfunction hysteresis. The history No. can be changed with the button.	Unit 1 Malfunction code 2-U4 Malfunction code Hystory No: 1 - 9 1: Latest
41	Display of sensor and address data	Display various types of data. Select the data to be displayed with the button. Sensor data 0: Thermostat sensor in remote controller. 1: Suction 2: Liquid pipe 3: Gas pipe Address data 4: Indoor unit address 5: Outdoor unit address 6: BS unit address 7: Zone control address 8: Cool/heat group address 9: Demand / low noise address	Sensor data display Unit No. Sensor type 1 1 1 2 7 Temperature °C Address display Unit No. Address type 1 8 1 Address
43	Forced fan ON	Manually turn the fan ON by each unit. (When you want to search for the unit No.) By selecting the unit No. with the button, you can turn the fan of each indoor unit on (forced ON) individually.	Unit 1 43
44	Individual setting	Set the fan speed and air flow direction by each unit Select the unit No. with the time mode button. Set the fan speed with the button. Set the air flow direction with the button.	Unit 1 Code 44 Fan speed 1: Low 3: High (VE010)
45	Unit No. transfer	Transfer unit No. Select the unit No. with the button. Set the unit No. after transfer with the button.	Present unit No. Unit 1
45 47	This function is not	used by VRV II R410A Heat Pump 50Hz.	

1.6 Remote Controller Self-Diagnosis Function

The remote controller switches are equipped with a self diagnosis function so that more appropriate maintenance can be carried out. If a malfunction occurs during operation, the operation lamp, malfunction code and display of malfunctioning unit No. let you know the contents and location of the malfunction.

When there is a stop due to malfunction, the contents of the malfunction given below can be diagnosed by a combination of operation lamp, INSPECTION display of the liquid crystal display and display of malfunction code. It also lets you know the unit No. during group control.



	Malfunction code	Operation lamp	Inspection display	Unit No.	Malfunction contents	Page Referred
Indoor	A0	•	0	•	Error of external protection device	178
Unit	A1	•	0	0	PC board defect, E ² PROM defect	179
	A3	•	•	0	Malfunction of drain level control system (33H)	180
	A6	•	•	0	Fan motor (MF) lock, overload	182
	A7	0	•	•	Malfunction of swing flap motor (MA)	183
	A9	•	•	0	Malfunction of moving part of electronic expansion valve (20E)	185
	AF	0	•	0	Drain level about limit	187
	AH	0	•	•	Malfunction of air filter maintenance	_
	AJ	•	0	0	Malfunction of capacity setting	188
	C4	•	•	•	Malfunction of thermistor (R2T) for heat exchange (loose connection, disconnection, short circuit, failure)	189
	C5	•	•	•	Malfunction of thermistor (R3T) for gas pipes (loose connection, disconnection, short circuit, failure)	190
	C9	•	•	0	Malfunction of thermistor (R1T) for air inlet (loose connection, disconnection, short circuit, failure)	191
	CJ	0	0	0	Malfunction of thermostat sensor in remote controller	192
Outdoor Unit	E1	•	•	•	PC board defect	193
Offic	E3	•	•	0	Actuation of high pressure switch	194
	E4	•	0	•	Actuation of low pressure sensor	195
	E5	•	0	•	Compressor motor lock	196
	E6	•	•	•	Standard compressor lock or over current	197
	E7	•	•	•	Malfunction of outdoor unit fan motor	198
	E9	•	•	 Malfunction of moving part of electronic expar valve (Y1E~3E) 		200
	F3	•	0	•	Abnormal discharge pipe temperature	202
	F6	•	0	•	Refrigerant overcharged	203
	НЗ	0	•	•	Malfunction of High pressure switch	_
	H4	•	•	•	Actuation of Low pressure switch	_
	H7	•	•	•	Abnormal outdoor fan motor signal	204
	H9	•	•	•	Malfunction of thermistor (R1T) for outdoor air (loose connection, disconnection, short circuit, failure)	205
	J2	•	•	•	Current sensor malfunction	206
	J3	•	•	•	Malfunction of discharge pipe thermistor (R31~33T) (loose connection, disconnection, short circuit, failure)	207
	J5	•	•	•	Malfunction of thermistor (R2T) for suction pipe (loose connection, disconnection, short circuit, failure)	208
	J6	•	•	•	Malfunction of thermistor (R4T) for heat exchanger (loose connection, disconnection, short circuit, failure)	209
	J7	•	•	0	Malfunction of header thermistor	_
	J8	•	•	•	Malfunction of thermistor (R7T) for oil equalizing pipe. (loose connection, disconnection, short circuit, failure)	_
	J9	•	•	0	Malfunction of receiver gas pipe thermistor (R5T)	210
	JA	•	0 0		Malfunction of discharge pipe pressure sensor	211
	JC	•	•	0	Malfunction of suction pipe pressure sensor	212
	L0	•	•	0	Inverter system error	_
	L4	•	•	0	Malfunction of inverter radiating fin temperature rise	213
	L5	•	•	0	Inverter compressor motor grounding, short circuit	214
	L6	•	•	0	Compressor motor coil grounding on short circuit	_
	L8	•	•	0	Inverter current abnormal	215
	L9	•	0	0	Inverter start up error	216

	Malfunction Operation Inspection Unit No.			Malfunction contents	Page Referred	
Outdoor LA		•	•	•	Malfunction of power unit	_
Unit	LC	•	•	0	Malfunction of transmission between inverter and control PC board	217
	P1	•	•	•	Inverter over-ripple protection	219
	P4	•	•	0	Malfunction of inverter radiating fin temperature rise sensor	220
System	U0	0	•	•	Low pressure drop due to refrigerant shortage or electronic expansion valve failure	221
	U1	•	•	•	Reverse phase / open phase	222
	U2	•	•	•	Power supply insufficient or instantaneous failure	223
	U3	•	•	•	Check operation is not conducted.	225
	U4	•	•	0	Malfunction of transmission between indoor and outdoor units	226
	U5	•	•	0	Malfunction of transmission between remote controller and indoor unit	228
	U5	•	0	•	Failure of remote controller PC board or setting during control by remote controller	228
	U7	•	•	•	Malfunction of transmission between outdoor units	229
U8 0			•	•	Malfunction of transmission between master and slave remote controllers (malfunction of slave remote controller)	231
	U9	•	•	0	Malfunction of transmission between indoor unit and outdoor unit in the same system	232
	UA	•	0	•	Excessive number of indoor units etc.	234
	UC	0	0	0	Address duplication of central remote controller	235
	UE	•	•	•	Malfunction of transmission between central remote controller and indoor unit	236 240 246
	UF	•	•	0	Refrigerant system not set, incompatible wiring / piping	238
	UH	•	•	•	Malfunction of system, refrigerant system address undefined	239
Centrali zed	M1	o or ●	•	•	PC board defect	241 248
Control and Schedu	M8	o or ●	•	0	Malfunction of transmission between optional controllers for centralized control	242 249
le Timer	MA	o or ●	•	0	Improper combination of optional controllers for centralized control	243 250
	MC	○ or •	•	0	Address duplication, improper setting	245 252
Heat	64	0	•	0	Indoor unit's air thermistor error	_
Reclai m	65	0	•	0	Outside air thermistor error	
Ventilat	68	0	•	0		_
ion	6A	0	•	0	Damper system alarm	_
	6A	•	•	0	Damper system + thermistor error	_
	6F	0	•	0	Malfunction of simple remote controller	_
	6H	0	•	0	Malfunction of door switch or connector	_
	94	•	•	•	Internal transmission error	—

The system operates for malfunction codes indicated in black squares, however, be sure to check and repair.

Malfunction code indication by outdoor unit PCB

To enter the monitor mode, push the MODE button (BS1) when in "Setting mode 1".

* Refer P.124 for Monitor mode.

<Selection of setting item>

Push the SET button (BS2) and set the LED display to a setting item.

* Refer P.124 for Monitor mode.

<Confirmation of malfunction 1>

Push the RETURN button (BS3) once to display "First digit" of malfunction code.

<Confirmation of malfunction 2>

Push the SET button (BS2) once to display "Second digit" of malfunction code.

Detail

on next page.

description

<Confirmation of malfunction 3>

Push the SET button (BS2) once to display "master or slave1 or slave2" and "malfunction location".

Push the RETURN button (BS3) and switches to the initial status of "Monitor mode".

* Push the MODE button (BS1) and returns to "Setting mode 1".

Contents of	malfunction	Malfunction
		code
Abnormal discharge pressure	HPS activated	E3
Abnormal suction pressure	Abnormal Pe	E4
Compressor lock	Detection of INV compressor lock	E5
Activation of OC	Detection of STD1 compressor lock	E6
	Detection of STD2 compressor lock	
Over load, over current,	Instantaneous over current of DC fan motor	E7
abnormal lock of outdoor unit fan motor	Detection of DC fan motor lock	
Malfunction of electronic expansion valve	EV1	E9
	EV2	
	EV3	
Abnormal position signal of outdoor unit fan motor	Abnormal position signal of DC fan motor	H7
Faulty sensor of outdoor air temperature	Faulty Ta sensor	H9
Faulty sensor of heat storage unit	,	НС
Abnormality in water system of heat storage unit		HJ
Transmission error between heat storage unit and o	controller	HF
Abnormal discharge pipe temperature	Abnormal Td	F3
Abnormal heat exchanger temperature	Refrigerant over charge	F6
Faulty current sensor	Faulty CT1 sensor	J2
. daily surroin soriou	Faulty CT2 sensor	32
Faulty cancer of discharge pine temperature	, , , , , , , , , , , , , , , , , , ,	J3
Faulty sensor of discharge pipe temperature	Faulty Tdi sensor Faulty Tds1 sensor	- 33
		1
	Faulty Tds2 sensor	
Faulty sensor of suction pipe temperature	Faulty Ts sensor	J5
Faulty sensor of heat exchanger temperature	Faulty Tb sensor	J6
Faulty sensor of receiver temperature	Faulty TI sensor	J7
Faulty sensor of oil pressure equalizing pipe temperature	Faulty To sensor	J8
Faulty sensor of subcool heat exchanger temperature	Faulty Tsh sensor	J9
Faulty sensor of discharge pressure	Faulty Pc sensor	JA
Faulty sensor of suction pressure	Faulty Pe sensor	JC
Inverter radiation fin temperature rising	Over heating of inverter radiation fin temperature	L4
DC output over current	Inverter instantaneous over current	L5
Electronic thermal switch	Electronic thermal switch 1	L8
	Electronic thermal switch 2	
	Out-of-step	
	Speed down after startup	
	Lightening detection	
Stall prevention (Limit time)	Stall prevention (Current increasing)	L9
	Stall prevention (Faulty startup)	1
	Abnormal wave form in startup	1
	Out-of-step	1
Transmission error between inverter and outdoor unit	Inverter transmission error	LC
Open phase/Power supply imbalance	Imbalance of inverter power supply voltage	P1
Faulty temperature sensor inside switch box	Faulty thermistor of inverter box	P3
Faulty temperature sensor of inverter radiation fin	Faulty thermistor of inverter box	P4
Incorrect combination of inverter and fan driver	Incorrect combination of inverter and fan driver	PJ
		U0
Gas shortage	Gas shortage alarm	
Abnormal power supply veltage	Reverse phase error	U1
Abnormal power supply voltage	Insufficient inverter voltage	U2
	Inverter open phase (phase T)	1
No involventation (1)	Charging error of capacitor in inverter main circuit	
No implementation of test-run	110.	U3
Transmission error between indoor and outdoor unit	I/O transmission error	U4
Transmission error between outdoor units, transmission error	O/O transmission error	U7
between thermal storage units, duplication of IC address		-
Transmission error of other system	Indoor unit system malfunction in other system or other unit of own system	U9
	Abnormal connection with excessive number of indoor units	UA
Erroneous on-site setting	Conflict of refrigerant type in indoor units	
	Conflict of refrigerant type in indoor units Incorrect wiring (Auto address error)	UH
Erroneous on-site setting Faulty system function Transmission error in accessory devices, conflict	Conflict of refrigerant type in indoor units Incorrect wiring (Auto address error) Malfunction of multi level converter, abnormality in	UH

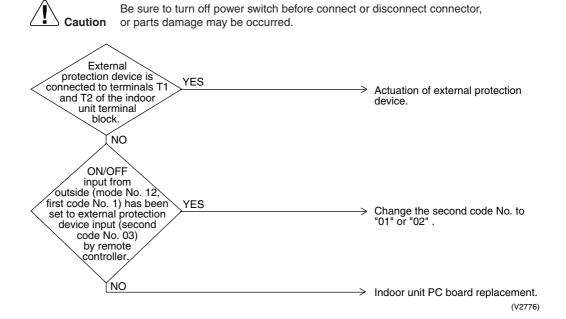
Malfunction		С	onfirmat	ion of ma	alfunction	1			С	onfirmati	on of ma	lfunction	12			С	onfirmat	ion of ma	lfunction	3	
code	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED1	LED2	LED3	LED4	LED5	LED6	LED7
E3	0	•	0	•			0	0	0	•	•	•	0	0	0	0	0			•	•
E4 E5								0	0	•	•	0	•	0	0	0	0			•	•
E6								0	0	•		0	0	•	0	0	0				0
								0	0	•	•	0	0	•	0	0	0			0	•
E7								0	0	•	•	0	0	0	0	0	0			•	0
E9								0	0	•	0	•	•	0	0	0	0			•	0
															0	0	0			0	
H7	0	•	0		0	•	•	0	0	•	•	0	0	0	0	0	0			0	0
H9								0	0	•	0	•	•	0	0	0	0			•	•
HC								0	0	•	0	0	•	•	0	0	0			•	•
HJ								0	0	•	0	0	•	0	0	0	0			•	•
HF								0	0	•	0	0	0	0	0	0	0			•	•
F3 F6	0	•	0				0	0	0	•	•	<u> </u>	0	0	0	0	0			•	•
J2	0	•	0	•	0	0	•	0	0	•		•	0		0	0	0			•	0
						Ŭ									0	0	0			0	•
J3								0	0	•	•	•	0	0	0	0	0			•	0
															0	0	0			0	•
															0	0	0			0	0
J5								0	0	•	•	0		0	0	0	0			•	•
J6 J7								0	0	•	•	0	0	0	0	0	0			•	•
J8								0	0	•	0	•	•	•	0	0	0			•	•
J9								0	0	•	0	•	•	0	0	0	0			•	•
JA								0	0	•	0	•	0	•	0	0	0			•	•
JC								0	0	•	0	0	•	•	0	0	0			•	•
L4								0	0	•	•	0		O	0	0	0			•	•
L5 L8								0	0	•	<u> </u>		•		0	0	0			•	•
L9								0	0	•	©	•	•	0	0	0	0			•	•
LC								0	0	•	0	0	•	•	0	0	0			•	•
P1	0	•	0	0	•	•	•	0	0	•	•	•	•	0	0	0	0			•	•
P3								0	0	•	•	•	0	0	0	0	0			•	•
P4								0	0	•	•	0	•	•	0	0	0			•	•
PJ	0	•	0	0	•	•	0	0	0	•	0	0	•	0	0	0	0			•	•
U0 U1							0	0	0	•	•	•	•	0	0	0	0			•	•
U2								0	0	•	•	•	0	•	0	0	0			•	•
110																					
U3 U4								0	0	•	•	O	OI	0	0	0	0			•	•
U7								0	0	•	•	0	0	0	0	0	0			•	•
U9								0	0	•	0	•	•	0	0	0	0			•	•
UA								0	0	•	0	•	0	•	0	0	0			•	•
UH								0	0	•	0	•	0	0	0	0	0			•	•
UJ UF								0	0	•	0	0 0	• ©	0	0	0	0			•	• •
		0	: ON : Blink : OFF		lalfunction			,	0	: ON : Blink : OFF			on code 2 ay sectio		,			Master Slave 1 Slave 2		locat	unction

2. Troubleshooting by Indication on the Remote Controller

2.1 "RD" Indoor Unit: Error of External Protection Device

Remote Controller Display	RO
Applicable Models	All indoor unit models
Method of Malfunction Detection	
Malfunction Decision Conditions	
Supposed Causes	 Actuation of external protection device Improper field set Defect of indoor unit PC board

Troubleshooting



2.2 "A?" Indoor Unit: PC Board Defect

Remote Controller Display *R1*

Applicable Models

All indoor unit models

Method of Malfunction Detection

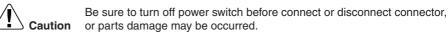
Check data from E2PROM.

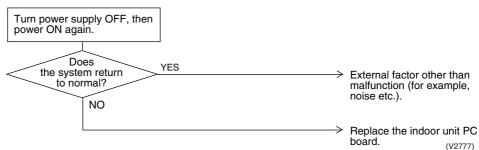
Malfunction Decision Conditions When data could not be correctly received from the E²PROM E²PROM: Type of nonvolatile memory. Maintains memory contents even when the power supply is turned off.

Supposed Causes

■ Defect of indoor unit PC board

Troubleshooting





179

2.3 "A3" Indoor Unit: Malfunction of Drain Level Control System (33H)

Remote
Controller
Display

83

Applicable Models

FXC, FXF, FXS, FXA, FXK, FXH (Option), FXM (Option), FXYB

Method of Malfunction Detection

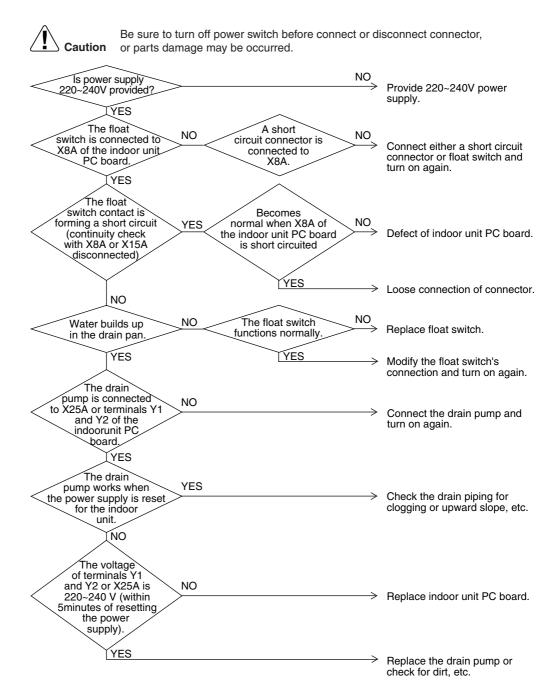
By float switch OFF detection

Malfunction Decision Conditions When rise of water level is not a condition and the float switch goes OFF.

Supposed Causes

- 220~240V power supply is not provided
- Defect of float switch or short circuit connector
- Defect of drain pump
- Drain clogging, upward slope, etc.
- Defect of indoor unit PC board
- Loose connection of connector

Troubleshooting



(V2778)

2.4 "85" Indoor Unit: Fan Motor (M1F) Lock, Overload

Remote Controller Display 88

Applicable Models

All indoor units

Method of Malfunction Detection

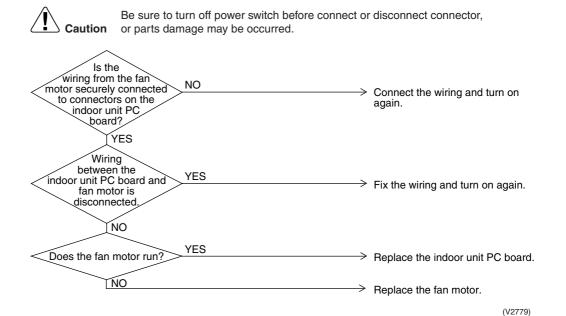
Detection by failure of signal for detecting number of turns to come from the fan motor

Malfunction Decision Conditions When number of turns can't be detected even when output voltage to the fan is maximum

Supposed Causes

- Fan motor lock
- Disconnected or faulty wiring between fan motor and PC board

Troubleshooting



2.5 "87" Indoor Unit: Malfunction of Swing Flap Motor (MA)

Remote Controller Display 87

Applicable Models

FXC, FXA, FXF, FXH, FXK

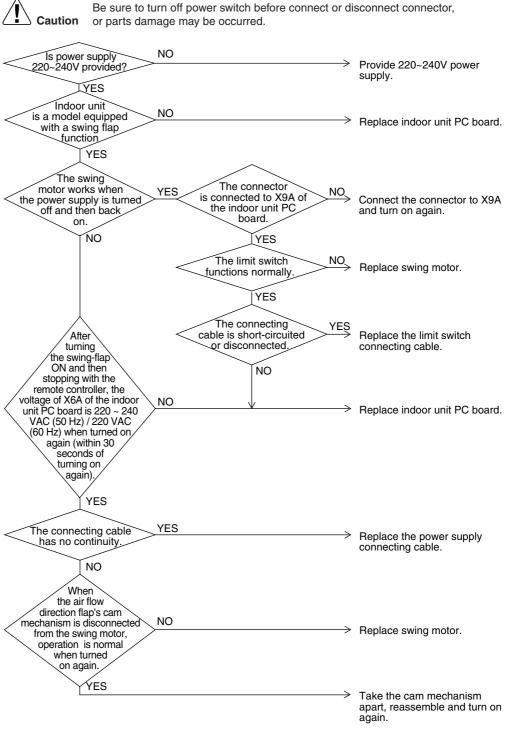
Method of Malfunction Detection Utilizes ON/OFF of the limit switch when the motor turns.

Malfunction Decision Conditions When ON/OFF of the microswitch for positioning cannot be reversed even though the swing flap motor is energized for a specified amount of time (about 30 seconds).

Supposed Causes

- Defect of swing motor
- Defect of connection cable (power supply and limit switch)
- Defect of air flow direction adjusting flap-cam
- Defect of indoor unit PC board

Troubleshooting



(V2780)

"89" Indoor Unit: Malfunction of Moving Part of Electronic 2.6 **Expansion Valve (20E)**

Remote Controller Display

89

Applicable Models

All indoor unit models

Method of Malfunction **Detection**

Detection by failure of signal for detecting number of turns to come from the fan motor

Malfunction **Decision Conditions**

When number of turns can't be detected even when output voltage to the fan is maximum

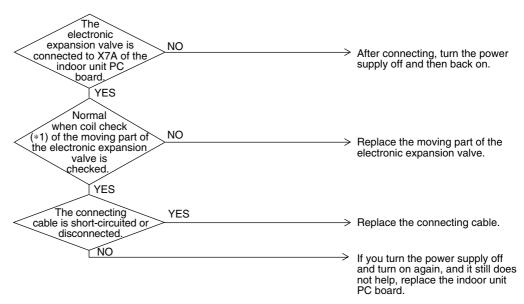
Supposed **Causes**

- Malfunction of moving part of electronic expansion valve
- Defect of indoor unit PC board
- Defect of connecting cable

Troubleshooting



Be sure to turn off power switch before connect or disconnect connector, or parts damage may be occurred.



(V2781)

*1: Coil check method for the moving part of the electronic expansion valve Discount the electronic expansion valve from the PC board and check the continuity between the connector pins.

(Normal)

Pin No.	1. White	2. Yellow	3. Orange	4. Blue	5. Red	6. Brown
1. White		×	O Approx. 300Ω	×	O Approx. 150Ω	×
2. Yellow			×	O Approx. 300Ω	×	O Approx. 150Ω
3. Orange				×	O Approx. 150Ω	×
4. Blue					×	O Approx. 150Ω
5. Red						×
6. Brown						

O: Continuity

x: No continuity

2.7 "AF" Indoor Unit: Drain Level above Limit

Remote Controller Display RF

Applicable Models

FXC, FXF, FXS, FXK, FXM, FXYB

Method of Malfunction Detection

Water leakage is detected based on float switch ON/OFF operation while the compressor is in non-operation.

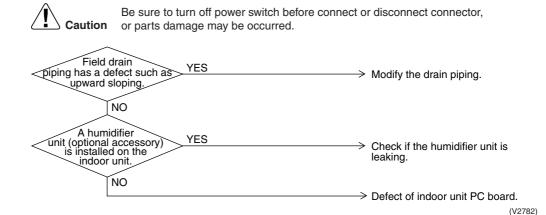
Malfunction Decision Conditions

When the float switch changes from ON to OFF while the compressor is in non-operation.

Supposed Causes

- Humidifier unit (optional accessory) leaking
- Defect of drain pipe (upward slope, etc.)
- Defect of indoor unit PC board

Troubleshooting



Troubleshooting 187

2.8 "AJ" Indoor Unit: Malfunction of Capacity Determination Device

Remote controller display

RJ

Applicable Models

All indoor unit models

Method of Malfunction Detection

Capacity is determined according to resistance of the capacity setting adaptor and the memory inside the IC memory on the indoor unit PC board, and whether the value is normal or abnormal is determined.

Malfunction Decision Conditions

Operation and:

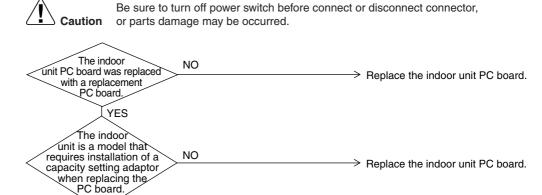
- 1. When the capacity code is not contained in the PC board's memory, and the capacity setting adaptor is not connected.
- 2. When a capacity that doesn't exist for that unit is set.

Supposed Causes

- You have forgotten to install the capacity setting adaptor.
- Defect of indoor unit PC board

YES

Troubleshooting



(V2783

Install a capacity setting adaptor.

2.9 "[4" Indoor Unit: Malfunction of Thermistor (R2T) for Heat Exchanger

Remote Controller Display LA

Applicable Models

All indoor unit models

Method of Malfunction Detection

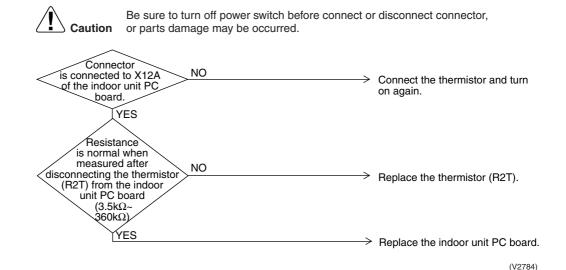
Malfunction detection is carried out by temperature detected by heat exchanger thermistor.

Malfunction Decision Conditions When the heat exchanger thermistor becomes disconnected or shorted while the unit is running.

Supposed Causes

- Defect of thermistor (R2T) for liquid pipe
- Defect of indoor unit PC board

Troubleshooting



5

*2: Refer to thermistor resistance / temperature characteristics table on P321.

Troubleshooting 189

2.10 "[5" Indoor Unit: Malfunction of Thermistor (R3T) for Gas Pipes

Remote Controller Display *C*5

Applicable Models

All indoor unit models

Method of Malfunction Detection

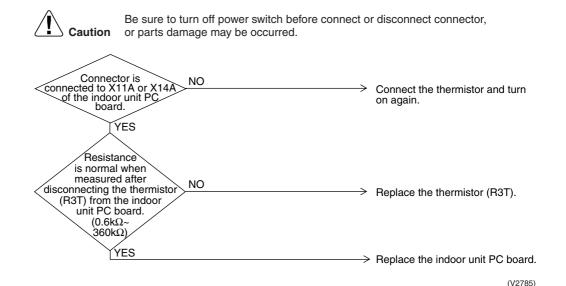
Malfunction detection is carried out by temperature detected by gas pipe thermistor.

Malfunction Decision Conditions When the gas pipe thermistor becomes disconnected or shorted while the unit is running.

Supposed Causes

- Defect of indoor unit thermistor (R3T) for gas pipe
- Defect of indoor unit PC board

Troubleshooting



2.11 "[3" Indoor Unit: Malfunction of Thermistor (R1T) for Suction Air

Remote Controller Display *E*9

Applicable Models

All indoor unit models

Method of Malfunction Detection

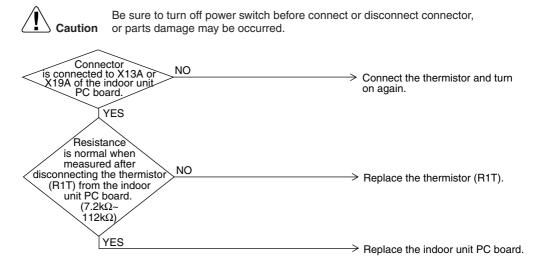
Malfunction detection is carried out by temperature detected by suction air temperature thermistor.

Malfunction Decision Conditions When the suction air temperature thermistor becomes disconnected or shorted while the unit is running.

Supposed Causes

- Defect of indoor unit thermistor (R1T) for air inlet
- Defect of indoor unit PC board

Troubleshooting



(V2786)

G

2.12 "[J" Indoor Unit: Malfunction of Thermostat Sensor in Remote Controller

Remote Controller Display Applicable Models

All indoor unit models

Method of Malfunction Detection

Malfunction detection is carried out by temperature detected by remote controller air temperature thermistor. (Note1)

Malfunction Decision Conditions When the remote controller air temperature thermistor becomes disconnected or shorted while the unit is running.

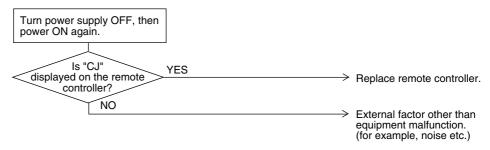
Supposed Causes

- Defect of remote controller thermistor
- Defect of remote controller PC board

Troubleshooting



Be sure to turn off power switch before connect or disconnect connector, or parts damage may be occurred.



(V2787)

Note

In case of remote controller thermistor malfunction, unit is still operable by suction air thermistor on indoor unit.



2.13 "El" Outdoor Unit: PC Board Defect

Remote Controller Display EI

Applicable Models

RX(Y)5~48M

Method of Malfunction Detection

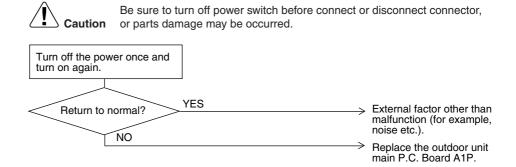
Check data from E2PROM

Malfunction Decision Conditions When data could not be correctly received from the E²PROM E²PROM: Type of nonvolatile memory. Maintains memory contents even when the power supply is turned off.

Supposed Causes

■ Defect of outdoor unit PC board (A1P)

Troubleshooting



(V3064)

2.14 "E3" Outdoor Unit: Actuation of High Pressure Switch

Remote Controller Display E3

Applicable Models

RX(Y)5~48M

Method of Malfunction Detection

Abnormality is detected when the contact of the high pressure protection switch opens.

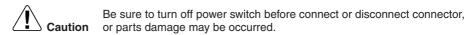
Malfunction Decision Conditions

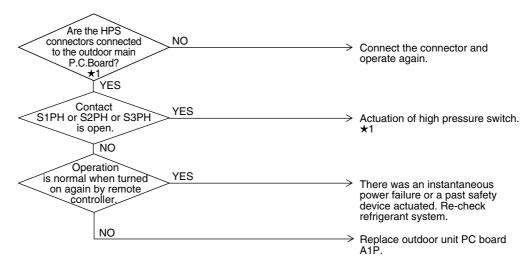
Error is generated when the HPS activation count reaches the number specific to the operation mode.

Supposed Causes

- Actuation of outdoor unit high pressure switch
- Defect of High pressure switch
- Defect of outdoor unit PC board
- Instantaneous power failure
- Faulty high pressure sensor

Troubleshooting





(V3065)

- ★1: Actuation of high pressure switch (HPS)
- The outdoor unit PC board's connector is disconnected.
- Is the outdoor unit heat exchanger dirty?
- · Defect of outdoor fan
- Is the refrigerant over-charged?
- · Faulty high pressure sensor

2.15 "EY" Outdoor Unit: Actuation of Low Pressure Sensor

Remote Controller Display EY

Applicable Models

RX(Y)5~48M

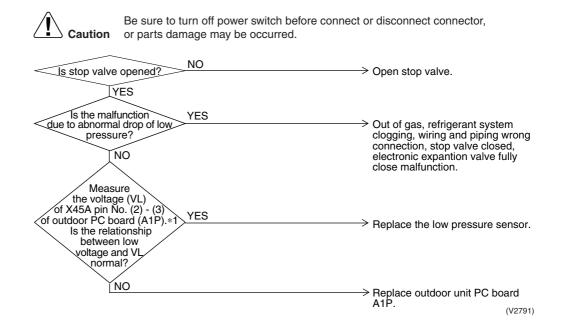
Method of Malfunction Detection

Malfunction Decision Conditions Error is generated when the low pressure is dropped under specific pressure.

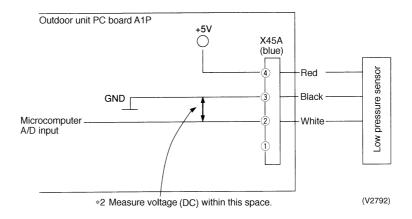
Supposed Causes

- Abnormal drop of low pressure (Refer to page 106 for Low Pressure Control)
- Defect of low pressure sensor
- Defect of outdoor unit PC board
- Stop valve is not opened.

Troubleshooting



*1: Voltage measurement point



*2: Refer to pressure sensor, pressure / voltage characteristics table on P323.

2.16 "E5" Compressor Motor Lock

Remote Controller Display *E*5

Applicable Models

RX(Y)5~48M

Method of Malfunction Detection

Inverter PC board takes the position signal from UVWN line connected between the inverter and compressor, and detects the position signal pattern.

Malfunction Decision Conditions

The position signal with 3 times cycle as imposed frequency is detected when compressor motor operates normally, but 2 times cycle when compressor motor locks. When the position signal in 2 times cycle is detected.

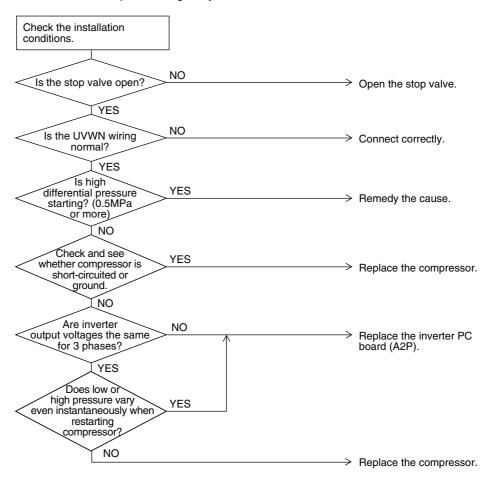
Supposed Causes

- Compressor lock
- High differential pressure (0.5MPa or more)
- Incorrect UVWN wiring
- Faulty inverter PC board
- Stop valve is left in closed.

Troubleshooting



Be sure to turn off power switch before connect or disconnect connector, or parts damage may be occurred.



(V2793)

2.17 "E6" Standard Compressor Motor Overcurrent/Lock

Remote Controller Display *E*6

Applicable Models

RX(Y)5~48M

Method of Malfunction Detection

Detects the overcurrent with current sensor (CT).

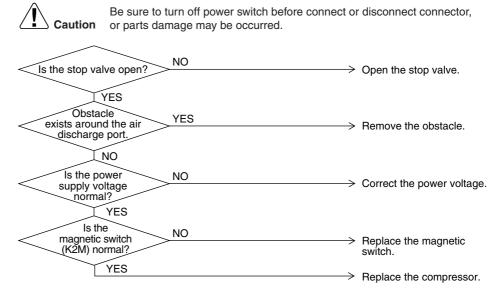
Malfunction Decision Conditions Malfunction is decided when the detected current value exceeds the below mentioned value for 2 seconds.

400 V unit : 15.0 A200 V unit : 28.8 A

Supposed Causes

- Closed stop value
- Obstacles at the discharge port
- Improper power voltage
- Faulty magnetic switch
- Faulty compressor

Troubleshooting



(V3051)

2.18 "E7" Malfunction of Outdoor Unit Fan Motor

Remote Controller Display *E*7

Applicable Models

RX(Y)5~48M

Method of Malfunction Detection

Malfunction of fan motor system is detected according to the fan speed detected by hall IC when the fan motor runs.

Malfunction Decision Conditions

- When the fan runs with speed less than a specified one for 15 seconds or more when the fan motor running conditions are met
- When connector detecting fan speed is disconnected
- When malfunction is generated 4 times, the system shuts down.

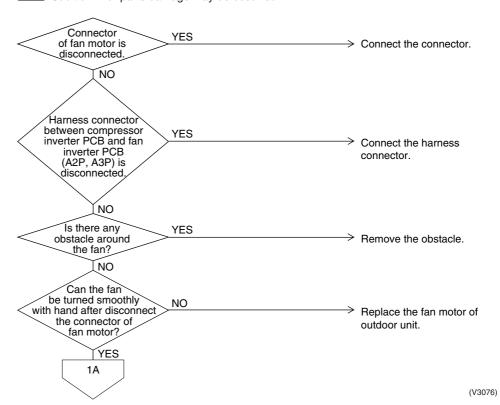
Supposed Causes

- Malfunction of fan motor
- The harness connector between fan motor and PC board is left in disconnected, or faulty connector
- Fan does not run due to foreign matters tangled
- Clearing condition: Operate for 5 minutes (normal)

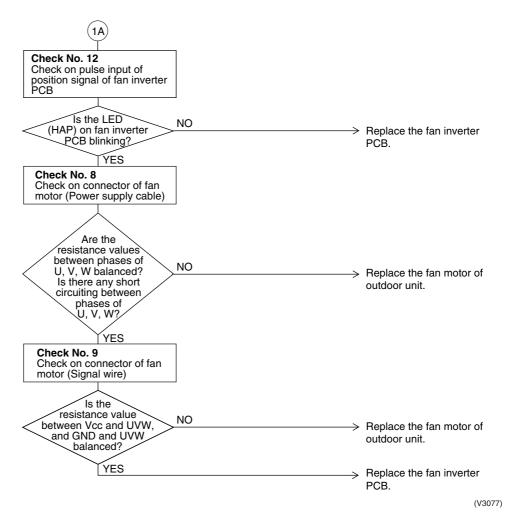
Troubleshooting



Be sure to turn off power switch before connect or disconnect connector, or parts damage may be occurred.



Troubleshooting



Refer check 8, 9 and 12 to P.259~260.

2.19 "E9" Outdoor Unit: Malfunction of Moving Part of Electronic Expansion Valve (Y1E, Y2E)

Remote Controller Display E9

Applicable Models

RX(Y)5~48M

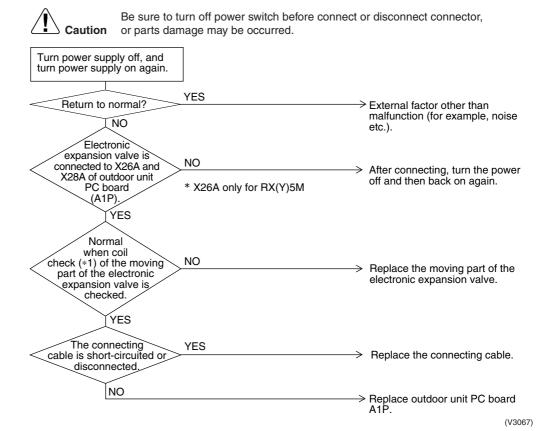
Method of Malfunction Detection Check disconnection of connector Check continuity of expansion valve coil

Malfunction Decision Conditions Error is generated under no common power supply when the power is on.

Supposed Causes

- Defect of moving part of electronic expansion valve
- Defect of outdoor unit PC board (A1P)
- Defect of connecting cable

Troubleshooting



*1 Coil check method for the moving part of the electronic expansion valve Disconnect the electronic expansion valve from the PC board and check the continuity between the connector pins.

(Normal)

Pin No.	1. White	2. Yellow	3. Orange	4. Blue	5. Red	6. Brown
1. White		×	©	×	0	×
2. Yellow			×	©	×	0
3. Orange				×	0	×
4. Blue					×	0
5. Red						×
6. Brown						

©: Continuity Approx. 300Ω $\ensuremath{\textsc{O}}$: Continuity Approx. 150 $\!\Omega$

x: No continuity

2.20 "F3" Outdoor Unit: Abnormal Discharge Pipe Temperature

Remote Controller Display F3

Applicable Models

RX(Y)5~48M

Method of Malfunction Detection

Abnormality is detected according to the temperature detected by the discharge pipe temperature sensor.

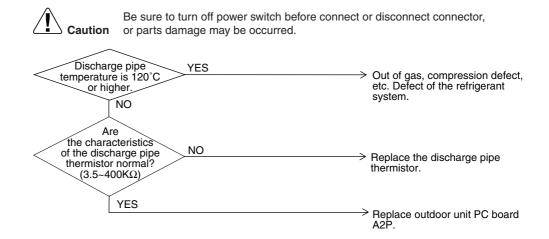
Malfunction Decision Conditions

- When the discharge pipe temperature rises to an abnormally high level
- When the discharge pipe temperature rises suddenly

Supposed Causes

- Faulty discharge pipe temperature sensor
- Faulty connection of discharge pipe temperature sensor
- Faulty outdoor unit PCB

Troubleshooting



*2: Refer to thermistor resistance / temperature characteristics table on P321.

G

(V3068)

2.21 "F6" Refrigerant Overcharged

Remote Controller Display <u>F6</u>

Applicable Models

RX(Y)5~48M

Method of Malfunction Detection

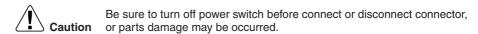
Refrigerant overcharge is detected from the receiver gas pipe temperature during test operation.

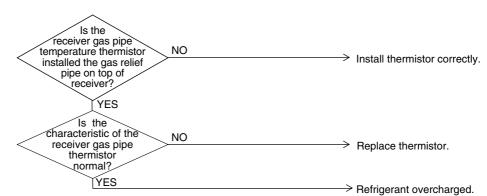
Malfunction Decision Conditions When the receiver gas pipe temperature is lower than evaporating temperature during test operation.

Supposed Causes

- Refrigerant overcharge
- Disconnection of the receiver gas pipe thermistor

Troubleshooting





(V2797)

2.22 "H7" Abnormal Outdoor Fan Motor Signal

Remote Controller Display H7

Applicable Models RX(Y)5~48M

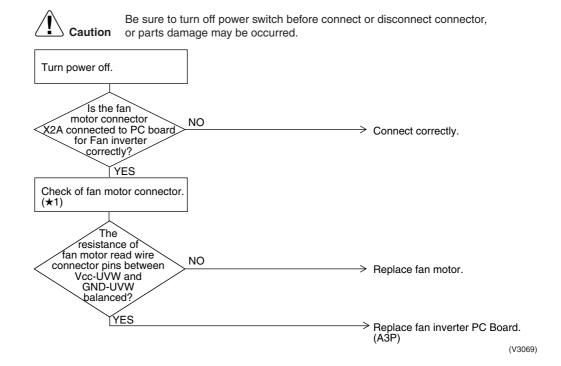
Method of Malfunction Detection Detection of abnormal signal from fan motor.

Malfunction Decision Conditions In case of detection of abnormal signal at starting fan motor.

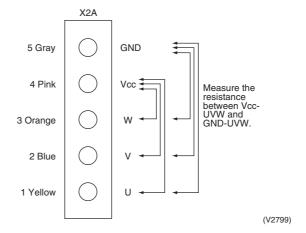
Supposed Causes

- Abnormal fan motor signal (circuit malfunction)
- Broken, short or disconnection connector of fan motor connection cable
- Fan Inverter PC board malfunction

Troubleshooting



★1: Disconnect connector (X2A) and measure the following resistance.



2.23 "H9" Outdoor Unit: Malfunction of Thermistor for Outdoor Air (R1T)

Remote Controller Display

H9

Applicable Models

RX(Y)5~48M

Method of Malfunction **Detection**

The abnormal detection is based on current detected by current sensor.

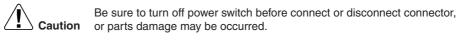
Malfunction **Decision Conditions**

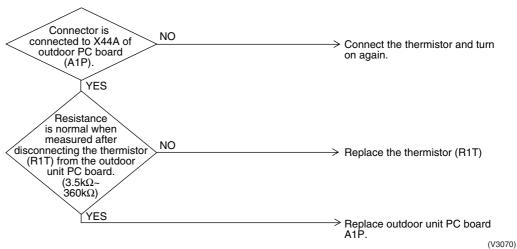
When the outside air temperature sensor has short circuit or open circuit.

Supposed Causes

- Defect of thermistor (R1T) for outdoor air
- Defect of outdoor unit PC board (A1P)

Troubleshooting





The alarm indicator is displayed when the fan only is being used also.

2.24 "J≥" Current Sensor Malfunction

Remote Controller Display 2ل

Applicable Models

RX(Y)5~48M

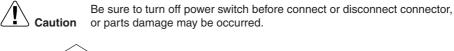
Method of Malfunction Detection Malfunction is detected according to the current value detected by current sensor.

Malfunction Decision Conditions When the current value detected by current sensor becomes 5A (400 V unit) and 3A (200 V unit) or lower during STD compressor operation and 40A or more during STD compressor stop.

Supposed Causes

- Faulty current sensor
- Faulty outdoor unit PC board

Troubleshooting





(V3071)

2.25 "J∃" Outdoor Unit: Malfunction of Discharge Pipe Thermistor (R31~33T)

Remote Controller Display JЗ

Applicable Models

RX(Y)5~48M

Method of Malfunction Detection

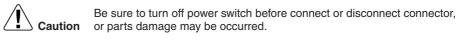
Malfunction is detected from the temperature detected by discharge pipe temperature thermistor.

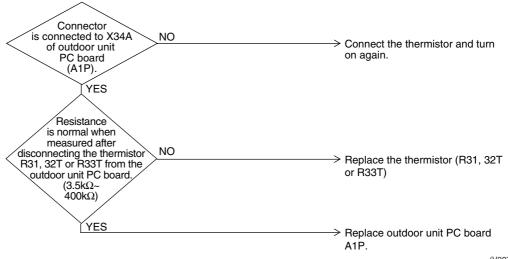
Malfunction Decision Conditions When a short circuit or an open circuit in the discharge pipe temperature thermistor is detected.

Supposed Causes

- Defect of thermistor (R31T, R32T or R33T) for outdoor unit discharge pipe
- Defect of outdoor unit PC board (A1P)

Troubleshooting





(V3072)

The alarm indicator is displayed when the fan is being used also.

Note:

5 HP class ··· R31T

8~12 HP class ··· R31T, R32T

14, 16HP class ··· R31T, R32T and R33T

2.26 "J5" Outdoor Unit: Malfunction of Thermistor (R2T) for Suction Pipe

Remote Controller Display J5

Applicable Models

RX(Y)5~48M

Method of Malfunction Detection

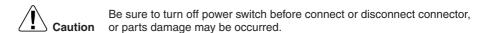
Malfunction is detected from the temperature detected by the suction pipe temperature thermistor.

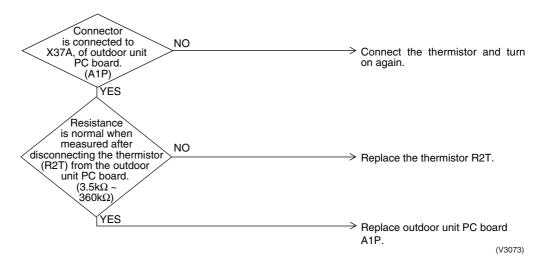
Malfunction Decision Conditions When a short circuit or an open circuit in the suction pipe temperature thermistor is detected.

Supposed Causes

- Defect of thermistor (R2T) for outdoor unit suction pipe
- Defect of outdoor unit PC board (A1P)

Troubleshooting







2.27 "Jb" Outdoor Unit: Malfunction of Thermistor (R4T) for **Outdoor Unit Heat Exchanger**

Remote Controller Display

J8

Applicable Models

RX(Y)5~48M

Method of Malfunction **Detection**

Malfunction is detected from the temperature detected by the heat exchanger thermistor.

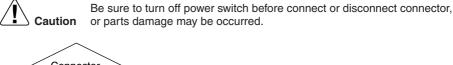
Malfunction **Decision Conditions**

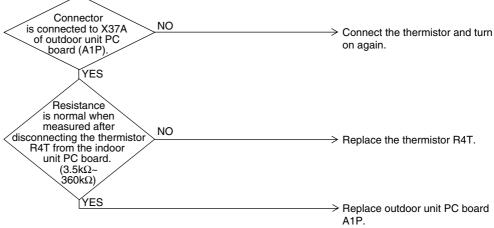
When a short circuit or an open circuit in the heat exchange thermistor is detected.

Supposed **Causes**

- Defect of thermistor (R4T) for outdoor unit coil
- Defect of outdoor unit PC board (A1P)

Troubleshooting





(V3074)

2.28 "J9" Malfunction of Receiver Gas Pipe Thermistor (R5T)

Remote Controller Display J9

Applicable Models RX(Y)5~48M

Method of Malfunction Detection

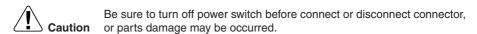
Malfunction is detected according to the temperature detected by receiver gas pipe thermistor (= Subcooling heat exchanger gas pipe thermistor).

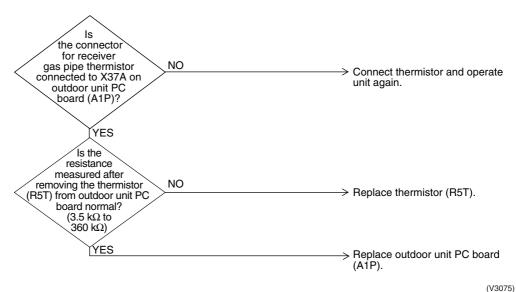
Malfunction Decision Conditions When the receiver gas pipe thermistor is short circuited or open.

Supposed Causes

- Faulty receiver gas pipe thermistor (R5T)
- Faulty outdoor unit PC board

Troubleshooting







2.29 "JR" Outdoor Unit: Malfunction of High Pressure Sensor

Remote Controller **Display**

JЯ

Applicable Models

RX(Y)5~48M

Method of Malfunction **Detection**

Malfunction is detected from the pressure detected by the high pressure sensor.

Malfunction **Decision Conditions**

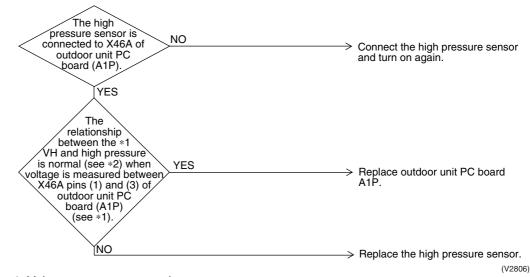
When the high pressure sensor is short circuit or open circuit.

Supposed Causes

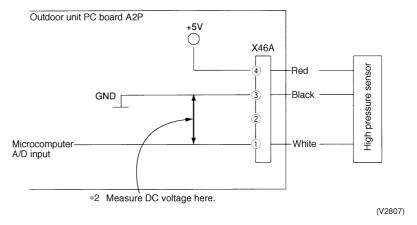
- Defect of high pressure sensor system
- Connection of low pressure sensor with wrong connection.
- Defect of outdoor unit PC board.

Troubleshooting

Be sure to turn off power switch before connect or disconnect connector, or parts damage may be occurred.



*1: Voltage measurement point



*2: Refer to pressure sensor, pressure / voltage characteristics table on P323.

2.30 "Jℂ" Outdoor Unit: Malfunction of Low Pressure Sensor

Remote Controller Display JE

Applicable Models

RX(Y)5~48M

Method of Malfunction Detection

Malfunction is detected from pressure detected by low pressure sensor.

Malfunction Decision Conditions

When the low pressure sensor is short circuit or open circuit.

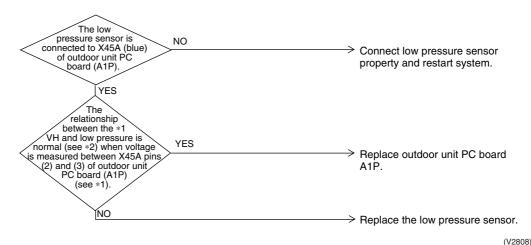
Supposed Causes

- Defect of low pressure sensor system
- Connection of high pressure sensor with wrong connection.
- Defect of outdoor unit PC board.

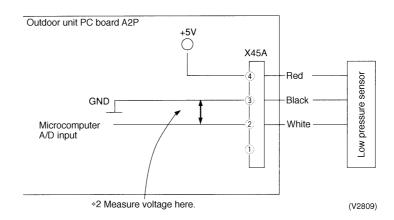
Troubleshooting



Be sure to turn off power switch before connect or disconnect connector, or parts damage may be occurred.



*1: Voltage measurement point



*2: Refer to pressure sensor, pressure/voltage characteristics table on P323.

2.31 "L4" Outdoor Unit: Malfunction of Inverter Radiating Fin Temperature Rise

Remote Controller Display 14

Applicable Models

RX(Y)5~48M

Method of Malfunction Detection

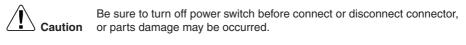
Fin temperature is detected by the thermistor of the radiation fin.

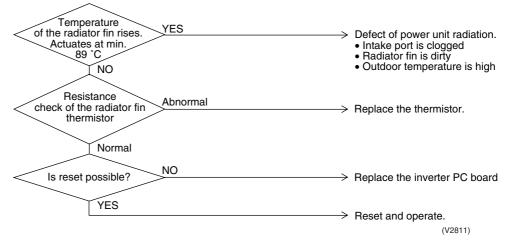
Malfunction Decision Conditions When the temperature of the inverter radiation fin increases above 89°C.

Supposed Causes

- Actuation of fin thermal (Actuates above 89°C)
- Defect of inverter PC board
- Defect of fin thermistor

Troubleshooting







*2: Refer to thermistor resistance / temperature characteristics table on P321.

2.32 "L5" Outdoor Unit: Inverter Compressor Abnormal

Remote Controller Display L5

Applicable Models

RX(Y)5~48M

Method of Malfunction Detection

Malfunction is detected from current flowing in the power transistor.

Malfunction Decision Conditions

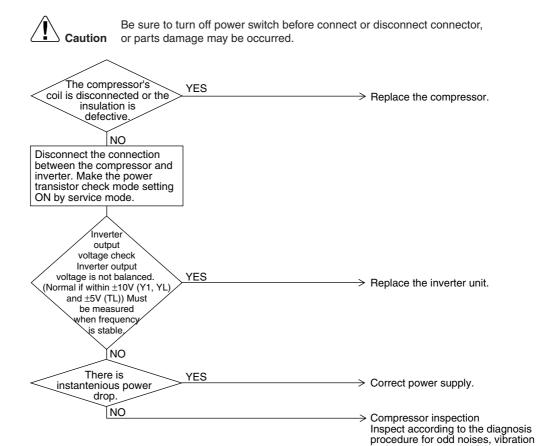
When an excessive current flows in the power transistor. (Instantaneous overcurrent also causes activation.)

Supposed Causes

- Defect of compressor coil (disconnected, defective insulation)
- Compressor start-up malfunction (mechanical lock)
- Defect of inverter PC board

Troubleshooting

Compressor inspection



Higher voltage than actual is displayed when the inverter output voltage is checked by tester.

and operating status of the

compressor.

2.33 "L8" Outdoor Unit: Inverter Current Abnormal

Remote Controller Display L8

Applicable Models

RX(Y)5~48M

Method of Malfunction Detection Malfunction is detected by current flowing in the power transistor.

Malfunction Decision Conditions When overload in the compressor is detected.

Supposed Causes

- Compressor overload
- Compressor coil disconnected
- Defect of inverter PC board

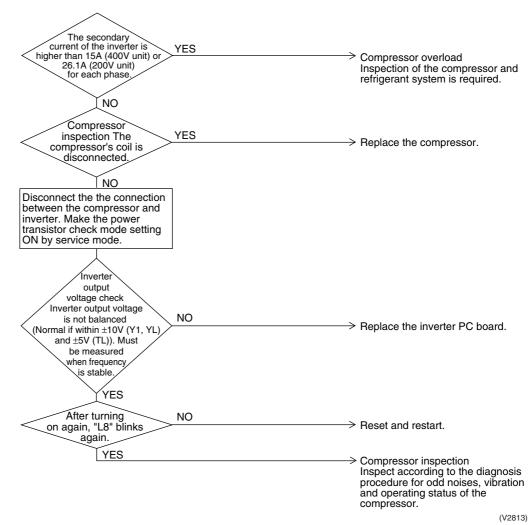
Troubleshooting

Output current check



В

Be sure to turn off power switch before connect or disconnect connector, or parts damage may be occurred.



2.34 "L9" Outdoor Unit: Inverter Start up Error

Remote Controller Display LS

Applicable Models RX(Y)5~48M

Method of Malfunction Detection Malfunction is detected from current flowing in the power transistor.

Malfunction Decision Conditions When overload in the compressor is detected during startup

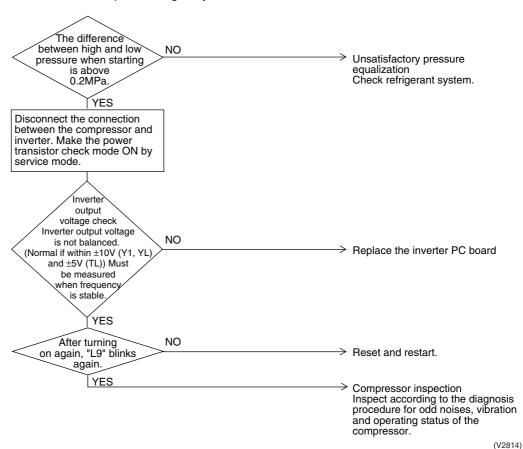
Supposed Causes

- Defect of compressor
- Pressure differential start
- Defect of inverter PC board

Troubleshooting



Be sure to turn off power switch before connect or disconnect connector, or parts damage may be occurred.



(*2014)

2.35 "LC" Outdoor Unit: Malfunction of Transmission Between Inverter and Control PC Board

Remote Controller Display LE

Applicable Models

RX(Y)5~48M

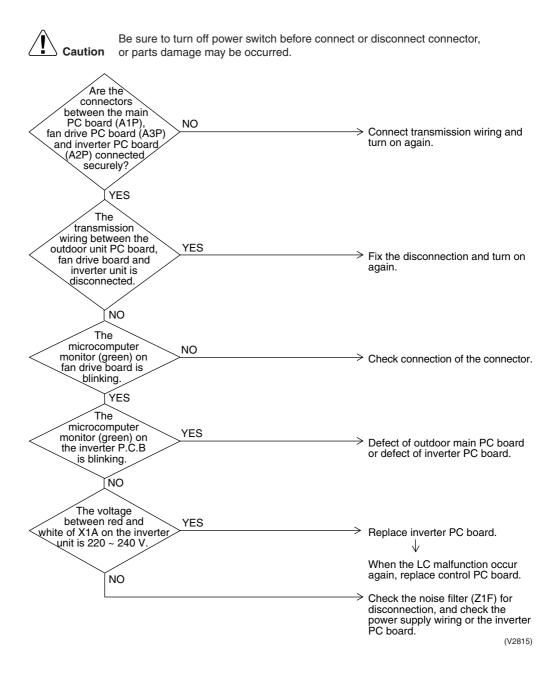
Method of Malfunction Detection

Check the communication state between inverter PC board and control PC board by microcomputer.

Malfunction Decision Conditions When the correct communication is not conducted in certain period.

Supposed Causes

- Malfunction of connection between the inverter PC board and outdoor control PC board
- Defect of outdoor control PC board (transmission section)
- Defect of inverter PC board
- Defect of noise filter
- External factor (Noise etc.)



2.36 "Pi" Outdoor Unit: Inverter Over-Ripple Protection

Remote Controller Display P1

Applicable Models

RX(Y)5~48M

Method of Malfunction Detection

Imbalance in supply voltage is detected in PC board.

Malfunction Decision Conditions

When the resistance value of thermistor becomes a value equivalent to open or short circuited status.

Malfunction is not decided while the unit operation is continued.
 "P1" will be displayed by pressing the inspection button.

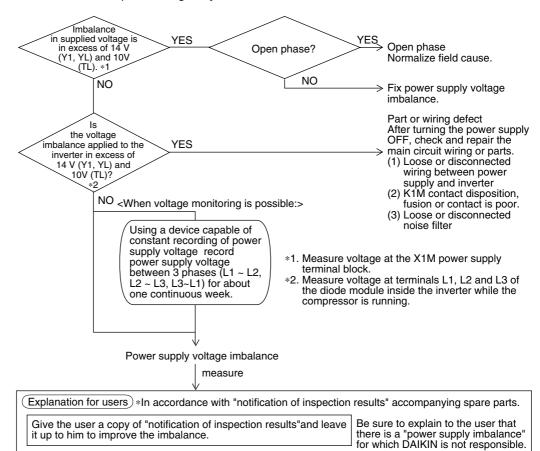
Supposed Causes

- Open phase
- Voltage imbalance between phases
- Defect of main circuit capacitor
- Defect of inverter PC board
- Defect of K1M
- Improper main circuit wiring

Troubleshooting



Be sure to turn off power switch before connect or disconnect connector, or parts damage may be occurred.



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2.37 "P4" Outdoor Unit: Malfunction of Inverter Radiating Fin Temperature Rise Sensor

Remote Controller Display PY

Applicable Models

RX(Y)5~48M

Method of Malfunction Detection

Resistance of radiation fin thermistor is detected when the compressor is not operating.

Malfunction Decision Conditions When the resistance value of thermistor becomes a value equivalent to open or short circuited status.

Malfunction is not decided while the unit operation is continued.
 "P4" will be displayed by pressing the inspection button.

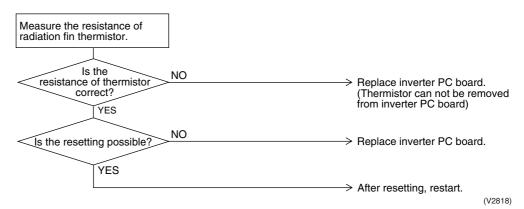
Supposed Causes

- Defect of radiator fin temperature sensor
- Defect of inverter PC board

Troubleshooting



Be sure to turn off power switch before connect or disconnect connector, or parts damage may be occurred.





2.38 "UD" Low Pressure Drop Due to Refrigerant Shortage or **Electronic Expansion Valve Failure**

Remote Controller Display

ШΠ

Applicable Models

RX(Y)5~48M

Method of Malfunction **Detection**

Short of gas malfunction is detected by discharge pipe temperature thermistor.

Malfunction **Decision Conditions**

Microcomputer judge and detect if the system is short of refrigerant.

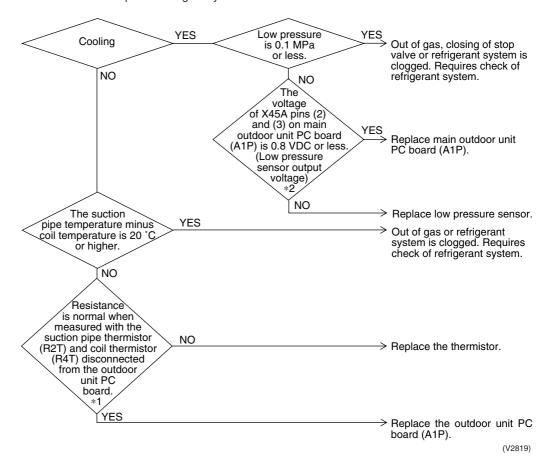
★Malfunction is not decided while the unit operation is continued.

Supposed **Causes**

- Out of gas or refrigerant system clogging (incorrect piping)
- Defect of pressure sensor
- Defect of outdoor unit PC board (A1P)
- Defect of thermistor R2T or R4T

Troubleshooting

Be sure to turn off power switch before connect or disconnect connector, or parts damage may be occurred.



- *1: Refer to thermistor resistance / temperature characteristics table on P321.
- *2: Refer to pressure sensor, pressure / voltage characteristics table on P323.

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

2.39 "Ul" Reverse Phase, Open Phase

Remote Controller Display Ш

Applicable Models

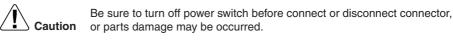
RX(Y)5~48M

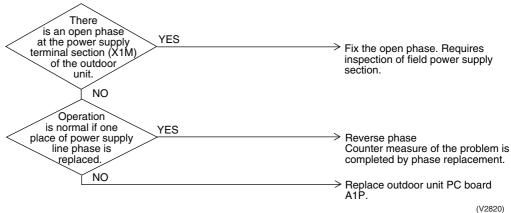
Method of Malfunction Detection Detection is based on the voltage in main circuit capacitor for inverter and supply voltage. The phase of each phase are detected by reverse phase detection circuit and right phase or reverse phase are judged.

Malfunction Decision Conditions

Supposed Causes

- Power supply reverse phase
- Power supply open phase
- Defect of outdoor PC board A1P





2.40 "U≥" Power Supply Insufficient or Instantaneous Failure

Remote Controller Display U2

Applicable Models

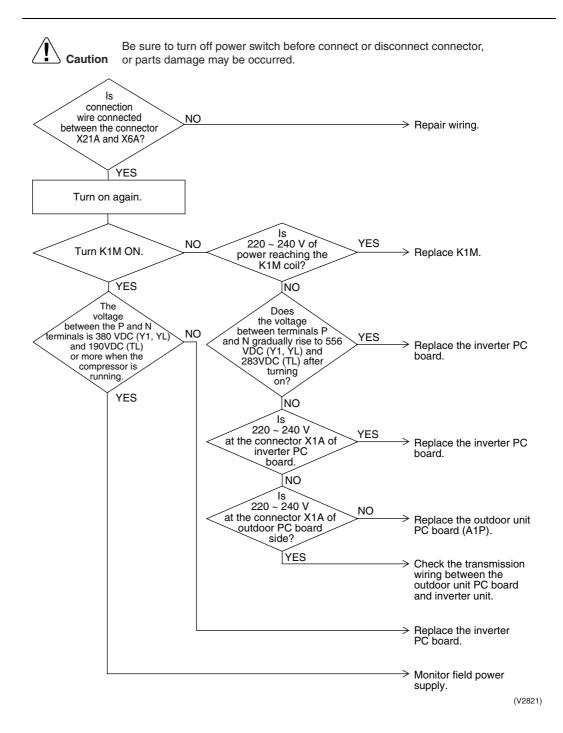
RX(Y)5~48M

Method of Malfunction Detection Detection of voltage of main circuit capacitor built in the inverter and power supply voltage.

Malfunction Decision Conditions

Supposed Causes

- Power supply insufficient
- Instantaneous failure
- Open phase
- Defect of inverter PC board
- Defect of outdoor control PC board
- Defect of K1M.
- Main circuit wiring defect



2.41 "U3" Check Operation not executed

Remote Controller **Display**

UЗ

Applicable Models

RX(Y)5~48M

Method of Malfunction **Detection**

Check operation is executed or not

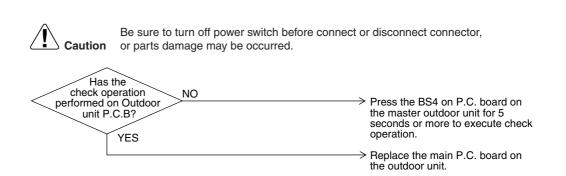
Malfunction **Decision Conditions**

Malfunction is decided when the unit starts operation without check operation.

Supposed Causes

Check operation is not executed.

Troubleshooting



(V3052)

2.42 "UY" Malfunction of Transmission Between Indoor Units

Remote Controller Display \overline{UY}

Applicable Models

All model of indoor unit

RX(Y)5~48M

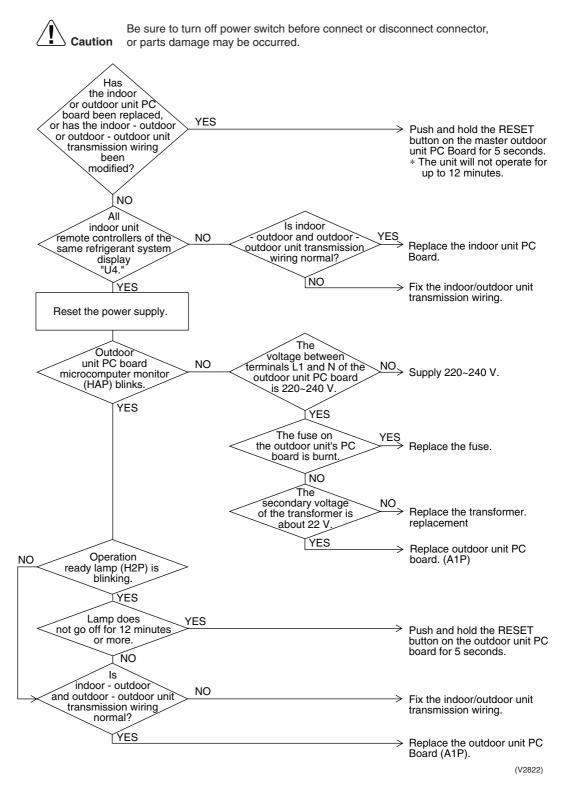
Method of Malfunction Detection Microcomputer checks if transmission between indoor and outdoor units is normal.

Malfunction Decision Conditions When transmission is not carried out normally for a certain amount of time

Supposed Causes

- Indoor to outdoor,outdoor to outdoor transmission wiring F1, F2 disconnection, short circuit or wrong wiring
- Outdoor unit power supply is OFF
- System address doesn't match
- Defect of indoor unit PC board
- Defect of outdoor unit PC board

Troubleshooting



Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

2.43 "U5" Malfunction of Transmission Between Remote Controller and Indoor Unit

Remote Controller Display **U**5

Applicable Models

All models of indoor units

Method of Malfunction Detection

In case of controlling with 2-remote controller, check the system using microcomputer is signal transmission between indoor unit and remote controller (main and sub) is normal.

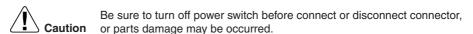
Malfunction Decision Conditions

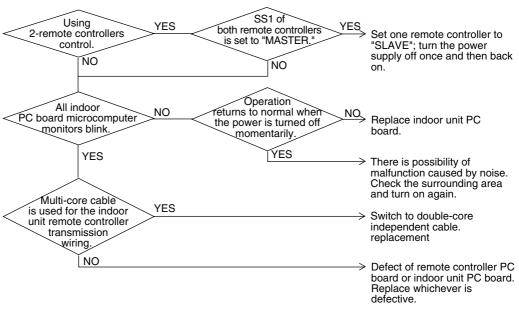
Normal transmission does not continue for specified period.

Supposed Causes

- Malfunction of indoor unit remote controller transmission
- Connection of two main remote controllers (when using 2 remote controllers)
- Defect of indoor unit PC board
- Defect of remote controller PC board
- Malfunction of transmission caused by noise

Troubleshooting





(V2823)

2.44 "U7" Malfunction of Transmission Between Outdoor Units

Remote
Controller
Display

Ц7

Applicable Models

All models of indoor units

Method of Malfunction **Detection**

Microcomputer checks if transmission between indoor unit and remote controller is normal.

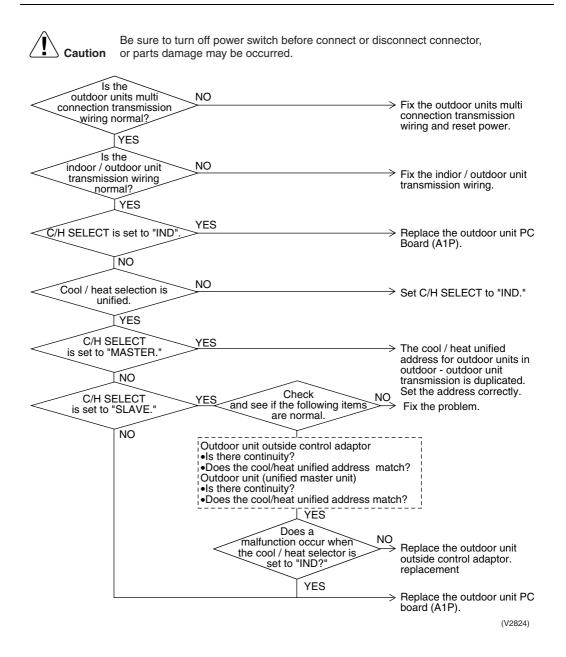
Malfunction **Decision Conditions**

When transmission is not carried out normally for a certain amount of time

Supposed Causes

- Improper connection of transmission wiring between outdoor unit and outdoor unit outside control adaptor
- Improper cool/heat selection
- Improper cool/heat unified address (outdoor unit, external control adaptor for outdoor unit)
- Defect of outdoor unit PC board (A1P)
- Defect of outdoor unit outside control adaptor
- Improper connection of transmission wiring between outdoor units of multi outdoor unit connection.

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html



2.45 "U8" Malfunction of Transmission Between Master and Slave Remote Controllers

Remote Controller Display *U8*

Applicable Models

All models of indoor units

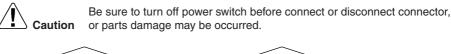
Method of Malfunction Detection

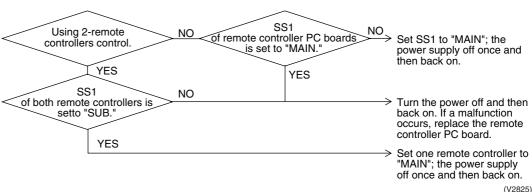
In case of controlling with 2-remote controller, check the system using microcomputer if signal transmission between indoor unit and remote controller (main and sub) is normal.

Malfunction Decision Conditions Normal transmission does not continue for specified period.

Supposed Causes

- Malfunction of transmission between main and sub remote controller
- Connection between sub remote controllers
- Defect of remote controller PC board

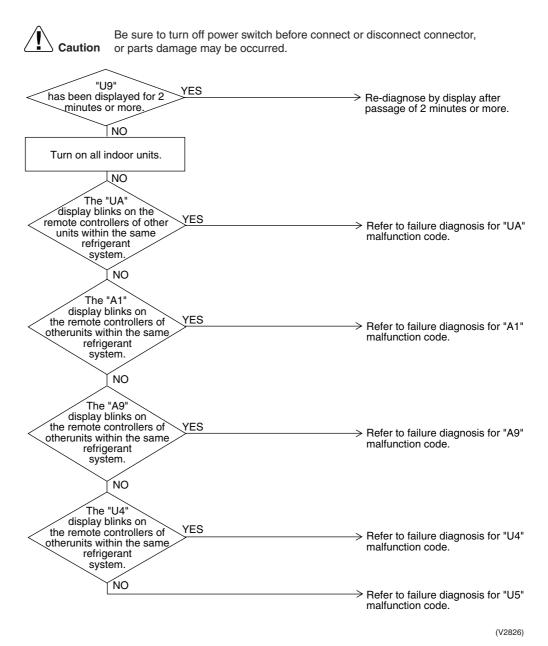




2.46 "U9" Malfunction of Transmission Between Indoor and Outdoor Units in the Same System

Remote Controller Display	U9
Applicable Models	All models of indoor units
Method of Malfunction Detection	
Malfunction Decision Conditions	
Supposed Causes	 Malfunction of transmission within or outside of other system Malfunction of electronic expansion valve in indoor unit of other system Defect of PC board of indoor unit in other system Improper connection of transmission wiring between indoor and outdoor unit

Troubleshooting



Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

2.47 "UR" Excessive Number of Indoor Units

Remote Controller Display UR

Applicable Models All models of indoor unit

RX(Y)5~48M

Method of Malfunction Detection

Malfunction Decision Conditions

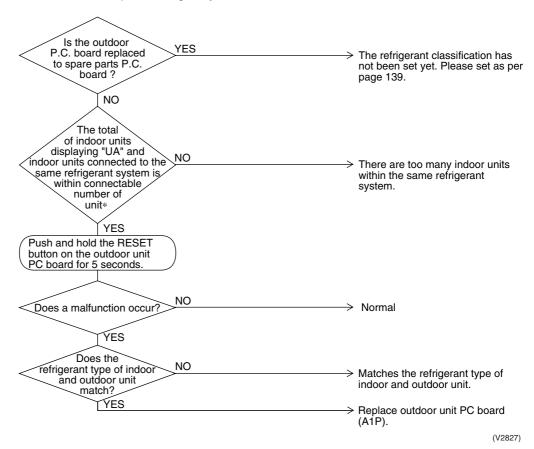
Supposed Causes

- Excess of connected indoor units
- Defect of outdoor unit PC board (A1P)
- Mismatching of the refrigerant type of indoor and outdoor unit.
- Setting of outdoor P.C. board was not conducted after replacing to spare parts P.C. board.

Troubleshooting



Be sure to turn off power switch before connect or disconnect connector, or parts damage may be occurred.



* The number of indoor units that can be connected to a single outdoor unit system depends on the type of outdoor unit.

2.48 "UC" Address Duplication of Central Remote Controller

Remote Controller Display UC

Applicable Models All models of indoor unit Centralized controller

Method of Malfunction Detection

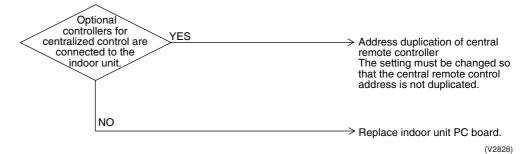
Malfunction Decision Conditions

Supposed Causes

- Address duplication of centralized remote controller
- Defect of indoor unit PC board

Troubleshooting

Be sure to turn off power switch before connect or disconnect connector, or parts damage may be occurred.



2.49 "UE" Malfunction of Transmission Between Central Remote Controller and Indoor Unit

Remote
Controller
Display

UE

Applicable Models

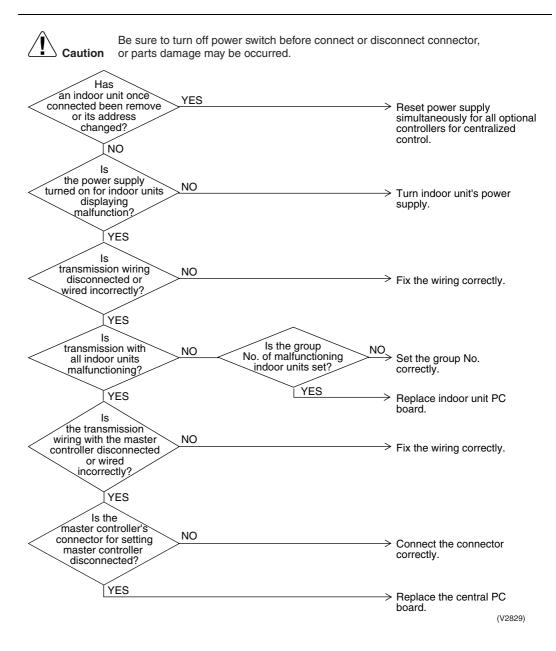
All models of indoor units Centralized controller

Method of Malfunction Detection Microcomputer checks if transmission between indoor unit and centralized remote controller is normal.

Malfunction Decision Conditions When transmission is not carried out normally for a certain amount of time

Supposed Causes

- Malfunction of transmission between optional controllers for centralized control and indoor unit
- Connector for setting master controller is disconnected.
- Failure of PC board for centralized remote controller
- Defect of indoor unit PC board



2.50 "UF" Refrigerant System not Set, Incompatible Wiring/ Piping

Remote Controller Display UF

Applicable Models

All models of indoor units

RX(Y)5~48M

Method of Malfunction Detection

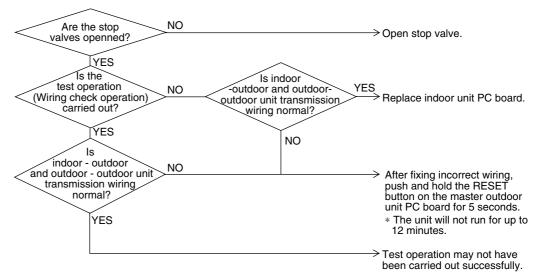
Malfunction Decision Conditions

Supposed Causes

- Improper connection of transmission wiring between outdoor unit and outdoor unit outside control adaptor
- Failure to execute wiring check operation
- Defect of indoor unit PC board

Troubleshooting

Be sure to turn off power switch before connect or disconnect connector, or parts damage may be occurred.



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Note

Test operation may not be successful if carried out after the outdoor unit has been off for more than 12 hours, or if it is not carried out after running all connected indoor units in the fan mode for at least an hour.

2.51 "UH" Malfunction of System, Refrigerant System Address Undefined

Remote Controller Display UH

Applicable Models

All models of indoor units

RX(Y)5~48M

Method of Malfunction Detection

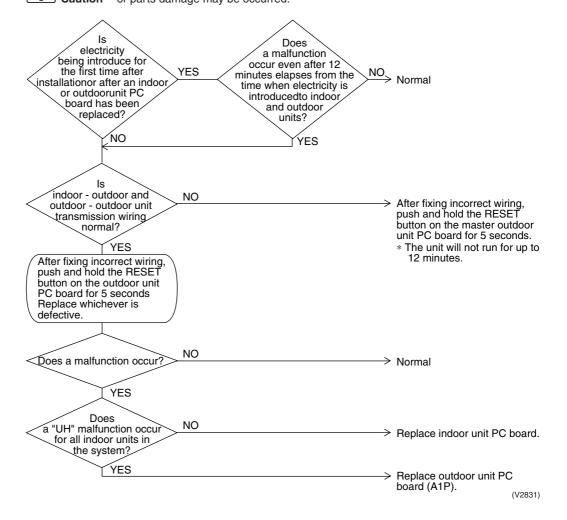
Malfunction Decision Conditions

Supposed Causes

- Improper connection of transmission wiring between outdoor unit and outdoor unit outside control adaptor
- Defect of indoor unit PC board
- Defect of outdoor unit PC board (A1P)

Troubleshooting

Be sure to turn off power switch before connect or disconnect connector, or parts damage may be occurred.



3. Troubleshooting (OP: Central Remote Controller)

3.1 "UE" Malfunction of Transmission Between Central Remote Controller and Indoor Unit

Remote Controller Display LIE

Applicable Models

All models of indoor units

RX(Y)5~48M

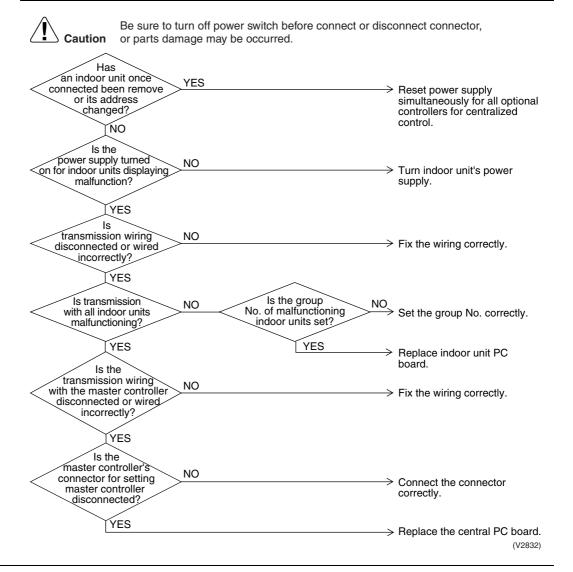
Method of Malfunction Detection

Microcomputer checks if transmission between indoor unit and central remote controller is normal.

Malfunction Decision Conditions When transmission is not carried out normally for a certain amount of time

Supposed Causes

- Malfunction of transmission between optional controllers for centralized control and indoor unit
- Connector for setting master controller is disconnected.
- Failure of PC board for central remote controller
- Defect of indoor unit PC board



Troubleshooting

3.2 "M" PC Board Defect

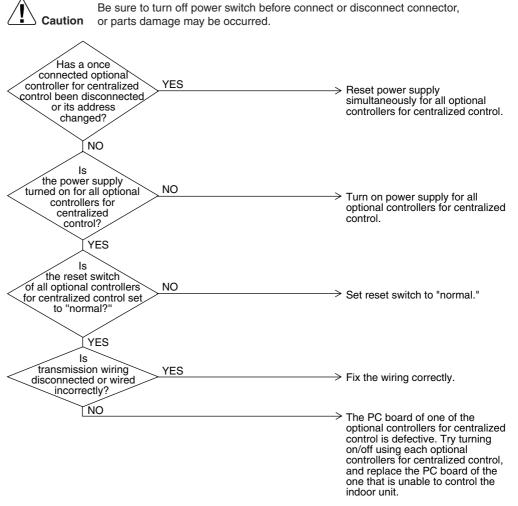
Remote Controller Display	MI
Applicable Models	Centralized remote controller
Method of Malfunction Detection	
Malfunction Decision Conditions	
Supposed Causes	■ Defect of central remote controller PC board

Replace the central remote controller PC board.

3.3 "#8" Malfunction of Transmission Between Optional Controllers for Centralized Control

Remote Controller Display	M8
Applicable Models	Centralized remote controller
Method of Malfunction Detection	
Malfunction Decision Conditions	
Supposed Causes	 Malfunction of transmission between optional controllers for centralized control Defect of PC board of optional controllers for centralized control

Troubleshooting

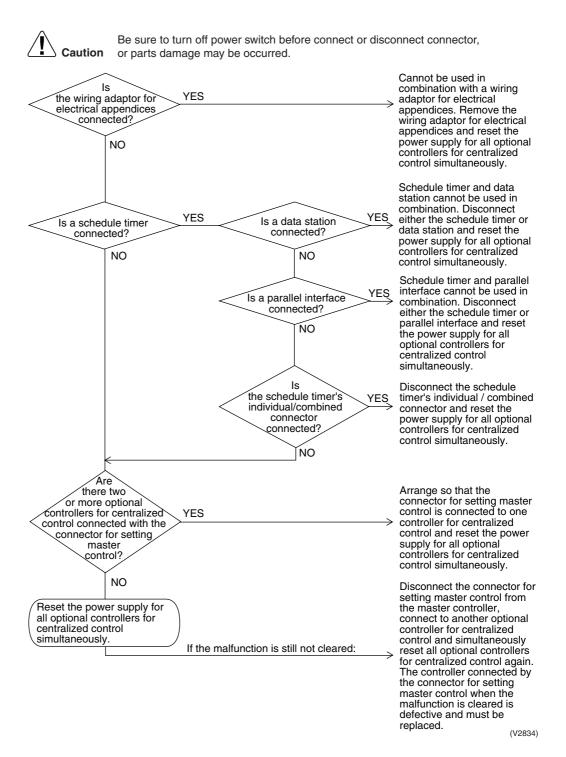


(V2833)

"PR" Improper Combination of Optional Controllers for 3.4 **Centralized Control**

Remote Controller Display	ПЯ
Applicable Models	Centralized remote controller
Method of Malfunction Detection	
Malfunction Decision Conditions	
Supposed Causes	 Improper combination of optional controllers for centralized control More than one master controller is connected Defect of PC board of optional controller for centralized control

Troubleshooting



3.5 "MC" Address Duplication, Improper Setting

Remote Controller Display ME

Applicable Models Centralized remote controller

Method of Malfunction Detection

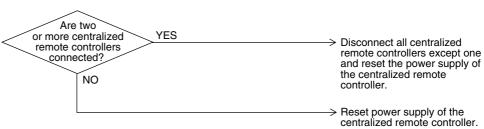
Malfunction Decision Conditions

Supposed Causes

Address duplication of centralized remote controller

Troubleshooting

Be sure to turn off power switch before connect or disconnect connector, or parts damage may be occurred.



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4. Troubleshooting (OP: Schedule Timer)

4.1 "UE" Malfunction of Transmission Between Central Remote Controller and Indoor Unit

Remote
Controller
Display
Applicable
Models

UE

Schedule timer

Method of Malfunction Detection

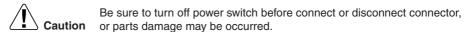
Microcomputer checks if transmission between indoor unit and centralized remote controller is normal.

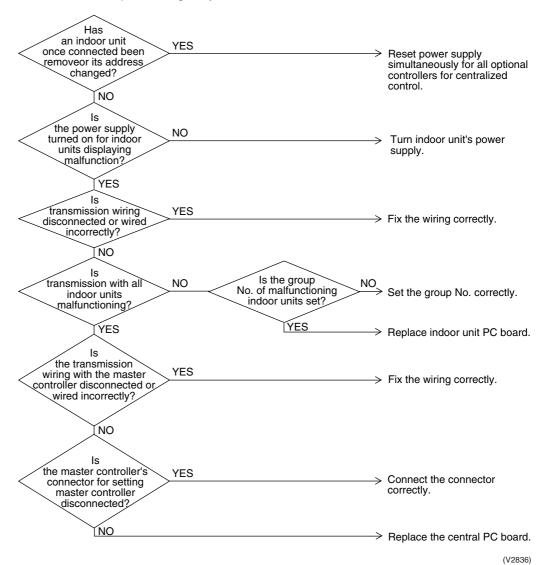
Malfunction Decision Conditions When transmission is not carried out normally for a certain amount of time

Supposed Causes

- Malfunction of transmission between central remote controller and indoor unit
- Disconnection of connector for setting master controller (or individual/combined switching connector)
- Defect of schedule timer PC board
- Defect of indoor unit PC board

Troubleshooting





4.2 """ PC Board Defect

Remote Controller Display MI

Applicable Models

Schedule timer

Method of Malfunction Detection

Malfunction Decision Conditions

Supposed Causes

■ Defect of schedule timer PC board

Troubleshooting

Be sure to turn off power switch before connect or disconnect connector, or parts damage may be occurred.



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and replace the PC board of the one that is unable to control the

(V2838)

indoor unit.

4.3 "#8" Malfunction of Transmission Between Optional Controllers for Centralized Control

Remote Controller Display M8

Applicable Models All models of indoor units, schedule timer

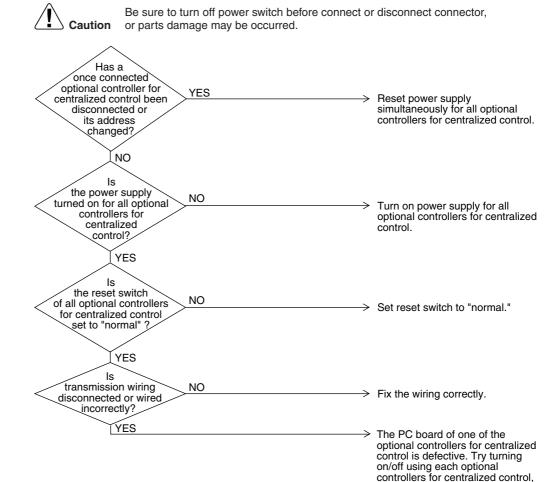
Method of Malfunction Detection

Malfunction Decision Conditions

Supposed Causes

- Malfunction of transmission between optional controllers for centralized control
- Defect of PC board of optional controllers for centralized control

Troubleshooting

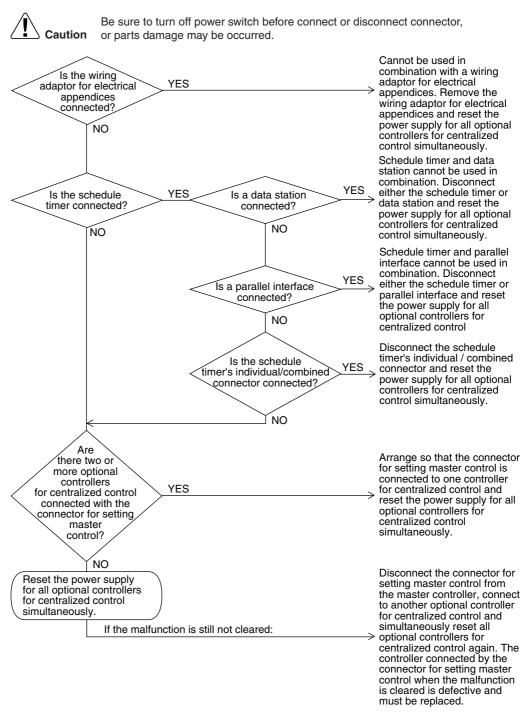


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4.4 "PR" Improper Combination of Optional Controllers for Centralized Control

Remote Controller Display	ПЯ
Applicable Models	All models of indoor units, schedule timer
Method of Malfunction Detection	
Malfunction Decision Conditions	
Supposed Causes	 Improper combination of optional controllers for centralized control More than one master controller is connected. Defect of PC board of optional controller for centralized control

Troubleshooting



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4.5 "MC" Address Duplication, Improper Setting

Remote Controller Display ME

Applicable Models All models of indoor units, schedule timer

Method of Malfunction Detection

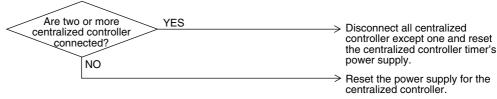
Malfunction Decision Conditions

Supposed Causes

Address duplication of optional controller for centralized control

Troubleshooting

Be sure to turn off power switch before connect or disconnect connector, or parts damage may be occurred.



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5. Troubleshooting (OP: Unified ON/OFF Controller)

5.1 Operation Lamp Blinks

Remote Controller Display Operation lamp blinks

Applicable Models

All models of indoor units Unified ON/OFF controller

Method of Malfunction Detection

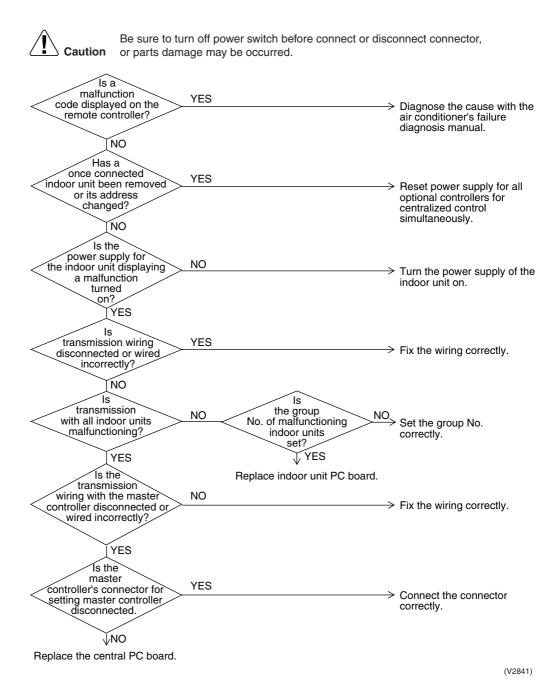
Malfunction Decision Conditions

Malfunction of transmission between optional controller and indoor unit

Connector for setting master controller is disconnected

- Supposed Causes
- Defect of unified ON/OFF controller
- Defect of indoor unit PC board
- Malfunction of air conditioner

Troubleshooting



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5.2 **Display "Under Host Computer Integrate Control" Blinks** (Repeats Single Blink)

Remote Controller **Display**

"under host computer integrated control" (Repeats single blink)

Applicable Models

Unified ON/OFF controller Central controller. Schedule timer

Method of Malfunction **Detection**

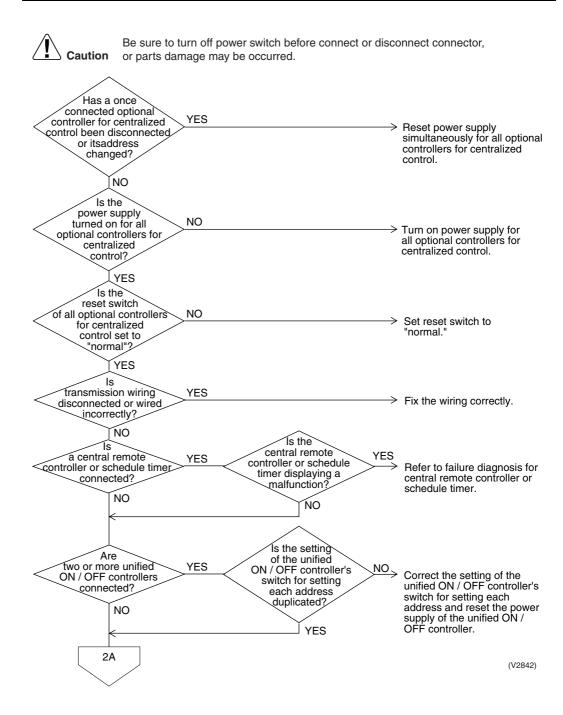
Malfunction **Decision Conditions**

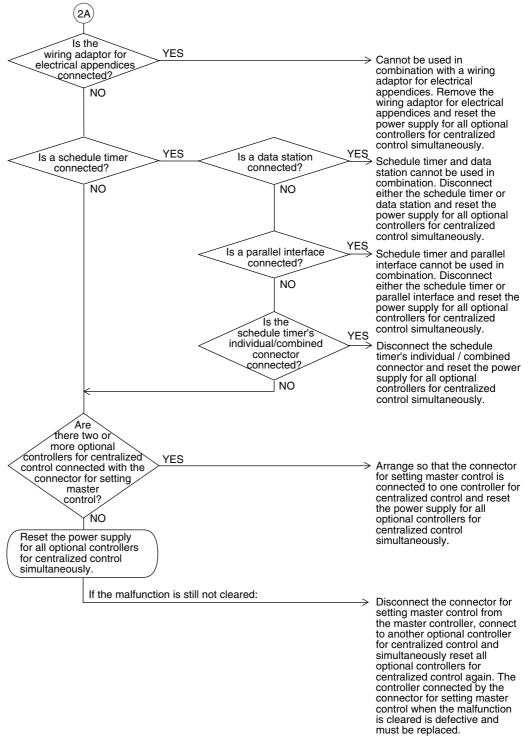
Supposed **Causes**

- Address duplication of central remote controller
- Improper combination of optional controllers for centralized control
- Connection of more than one master controller
- Malfunction of transmission between optional controllers for centralized control
- Defect of PC board of optional controllers for centralized control

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

Troubleshooting





(V2843)

5.3 Display "Under Host Computer Integrate Control" Blinks (Repeats Double Blink)

Remote Controller Display "under host computer integrated control" (Repeats double blink)

Applicable Models

Unified ON/OFF controller

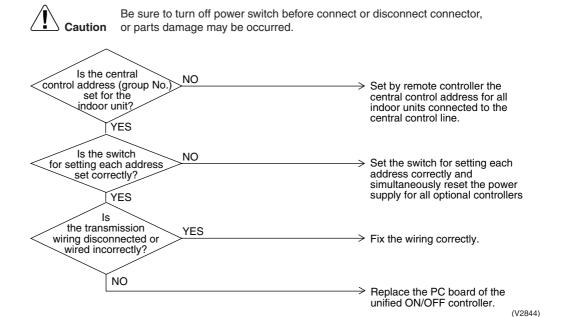
Method of Malfunction Detection

Malfunction Decision Conditions

Supposed Causes

- Central control address (group No.) is not set for indoor unit.
- Improper address setting
- Improper wiring of transmission wiring

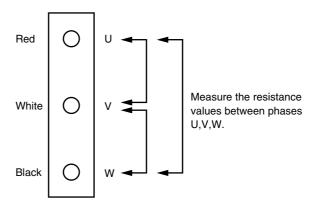
Troubleshooting



Check No. 8 Check on connector of fan motor (Power supply cable)

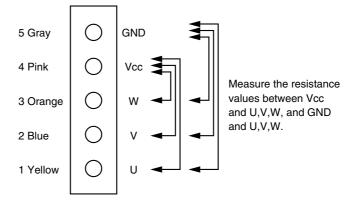
(1) Turn off the power supply.

Measure the resistance between phases of U,V,W at the motor side connectors (three-core wire) to check that the values are balanced and there is no short circuiting, while connector or relay connector is disconnected.



Check No. 9

- (1) Turn off the power supply.
- (2) Measure the resistance between Vcc and each phase of U,V,W, and GND and each phase at the motor side connectors (five-core wire) to check that the values are balanced within the range of \pm 20 %, while connector or relay connector is disconnected.



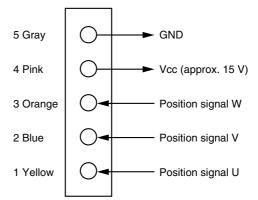
Check No. 12

Check on pulse input of position signal of fan inverter PCB

- (1) Disconnect the connector X2A while power supply OFF and operation OFF.
- (2) Is the voltage between pins No. 4 and 5 on X2A approx. 15 V after power supply is turned on?
- (3) Connect the connector X2A while power supply OFF and operation OFF.
- (4) Check below conditions when the fan motor is rotated one turn manually under the condition of operation OFF after power supply is turned ON.

Are the pulse (approx. 0 V and 5 V) generated 4 times between No. 1 and 5 on X2A? Are the pulse (approx. 0 V and 5 V) generated 4 times between No. 2 and 5 on X2A? Are the pulse (approx. 0 V and 5 V) generated 4 times between No. 3 and 5 on X2A?

The condition (2) dose not appear \rightarrow Faulty PCB \rightarrow Replacing the PCB The conditions (4) do not appear \rightarrow Faulty hall IC \rightarrow Replacing fan motor of outdoor unit



Part 7 Replacement procedure for INV compressor, VRV II RX(Y)5M to 48M

1.	Replacement procedure for INV compressor, VRV II	
	RX(Y)5M-48M	262
	1.1 Replacement procedure	

1. Replacement procedure for INV compressor, VRV II RX(Y)5M-48M

1.1 Replacement procedure

- (1) Collect the refrigerant by using refrigerant recovery unit.
 - (Since the setting on outdoor unit PCB is required for refrigerant recovery, refer to the warning plate "Precautions in service work" attached on the switch box cover.)
- (2) Remove the sound insulator mat covering the faulty compressor, and disconnect the power cable from terminal board of the compressor.
- (3) Disconnect the brazing sections of suction pipe and discharge pipe by using brazing torch after the refrigerant has been collected completely.
- (4) Pinch the oil pressure equalizing pipe of the faulty compressor at the lower part of the brazed joint as shown in figure 1, and cut it between the pinched section and brazed joint in order to prevent residual oil from discharging.
- (5) Remove three bolts at cushion rubber section to take out the faulty compressor outside the unit.
- (6) Check that no oil remains in the oil pressure equalizing pipe as shown in figure 2, then remove the cut pipe from the brazed joint with brazing torch.
- (7) Install the new compressor in the unit.
 (Be sure to insert the cushion rubbers before tightening the fixing bolts of compressor.)
- (8) Remove the rubber caps put on the suction and discharge pipe of the new compressor to release the sealing nitrogen gas. (Take note that oil may spout due to the pipe inside pressure if the plug put on the equalizing
- seat is removed before removing of rubber cap.)(9) Remove the plug put on the equalizing seat of the new compressor.
- (10) Install the outlet pipe on the equalizing seat of the new compressor.
- (11) Braze the equalizing seat outlet pipe to the oil pressure equalizing pipe with brazing torch.
 - * Since an O-ring is put in the equalizing seat, be sure to maintain the parts around O-ring in cool.
- (12) Braze the suction and discharge pipe with brazing torch to the compressor.
- (13) Conduct air tight test to check the piping system is free from leakage.
- (14) Connect power cable to the terminal board of compressor and cover the compressor with sound insulator mat.

Discharge pipe

Oil equalizing compressor

pipe

Equalizing seat

Bolts

Cushion rubber

Brazed section

1. Pinch

Equalizing seat

Fig. 1

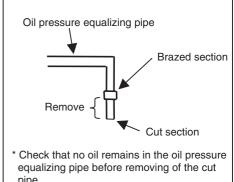


Fig. 2

- (15) Conduct vacuum drying.
 - (Since the setting on outdoor unit PCB is required for vacuum drying, refer to the warning plate "Precautions in service work" attached on the switch box cover.)
- (16) Charge refrigerant after the completion of vacuum drying, and check the function of compressor with cooling or heating operation.

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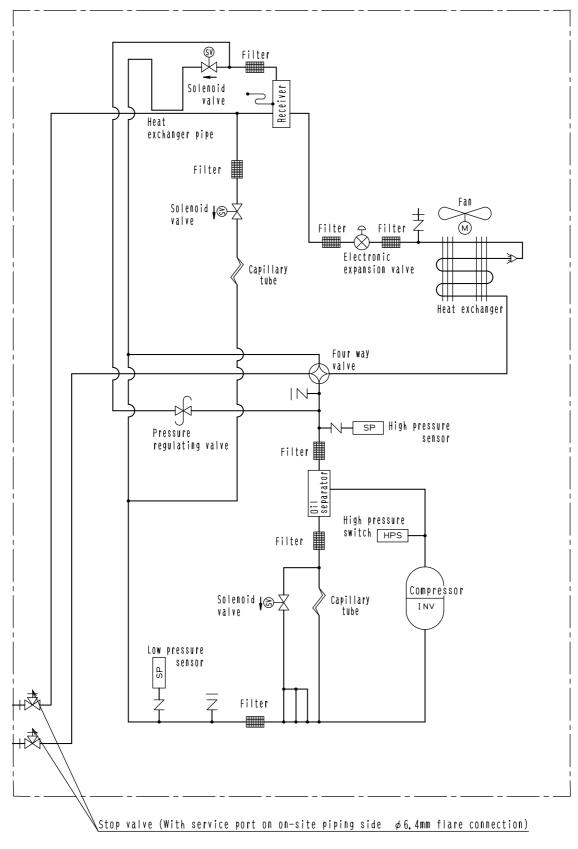
Piping Diagrams Si38-304

1. Piping Diagrams

1.1 Outdoor Unit

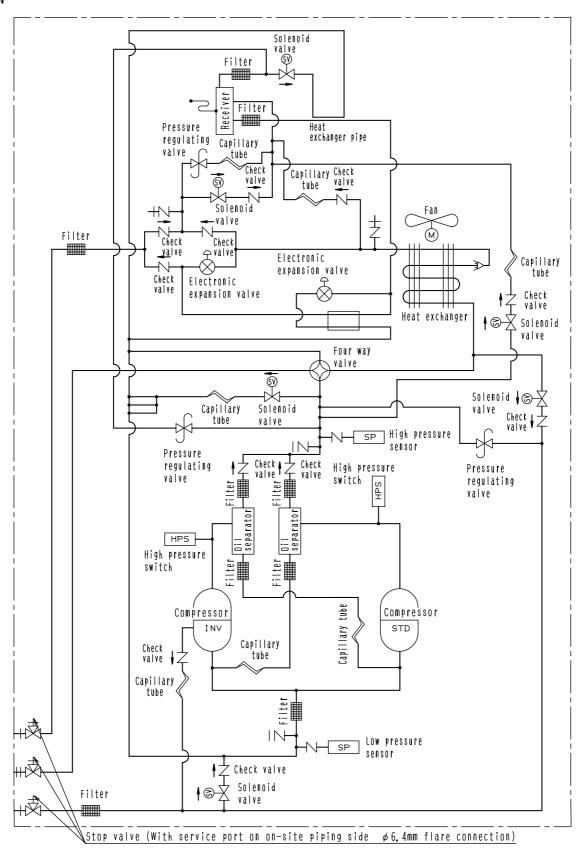
1.1.1 Heat Pump

RXY5M



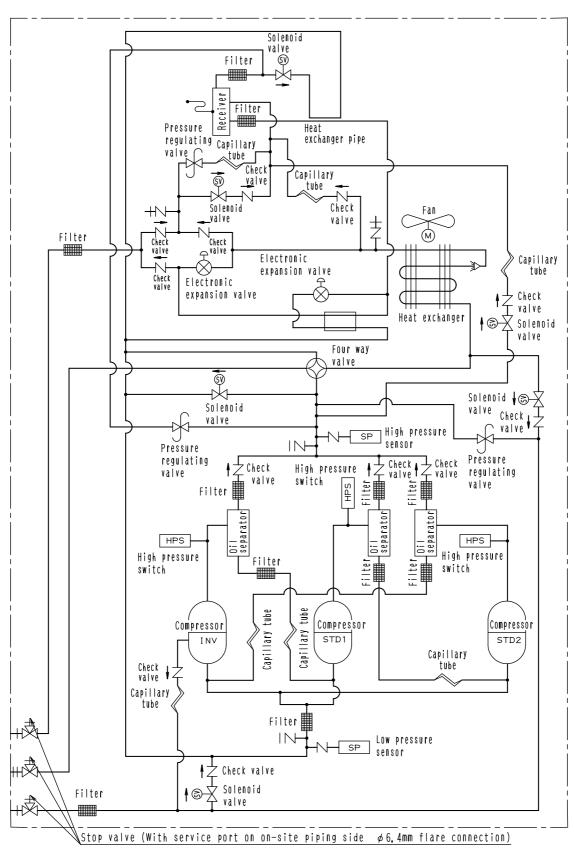
Si38-304 Piping Diagrams

RXY8M RXY10M RXY12M



Piping Diagrams Si38-304

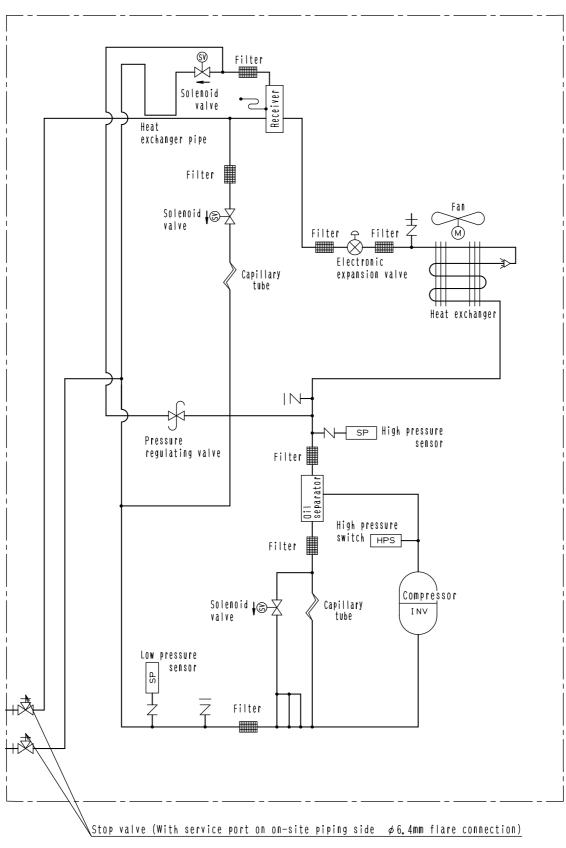
RXY14M RXY16M



Si38-304 Piping Diagrams

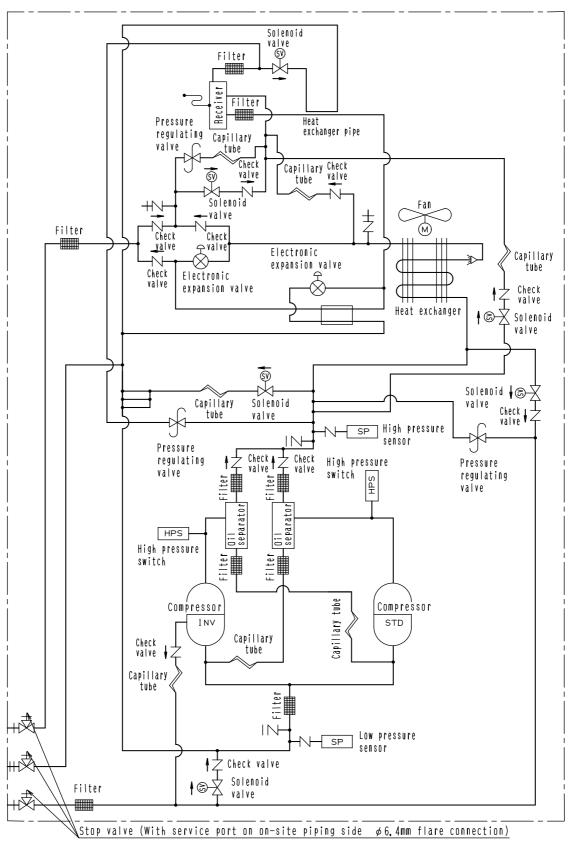
1.1.2 Cooling Only

RX5M



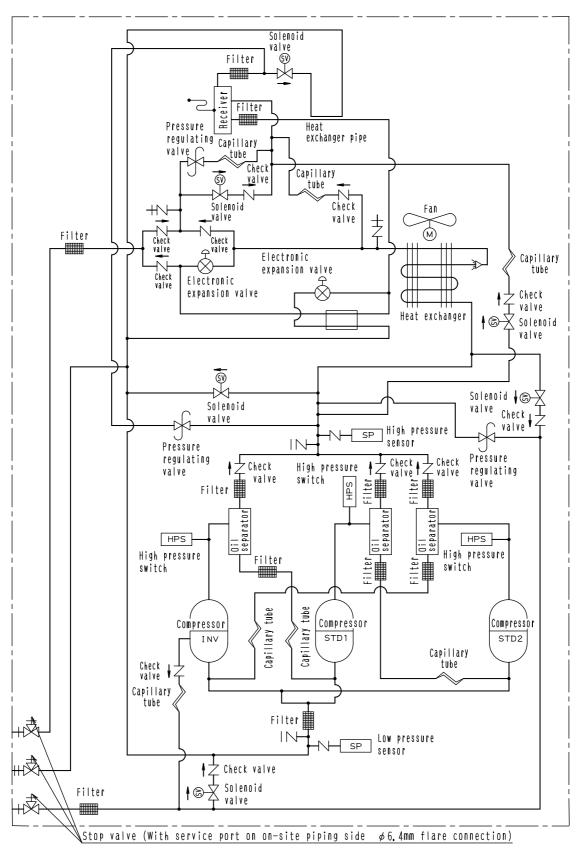
Piping Diagrams Si38-304

RX8M RX10M RX12M



Si38-304 Piping Diagrams

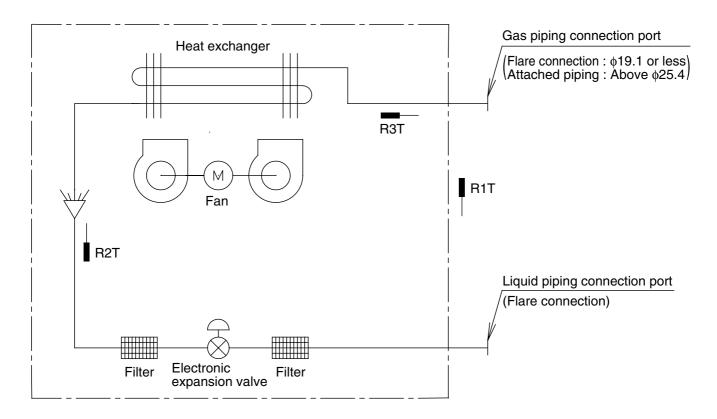
RX14M RX16M



Piping Diagrams Si38-304

1.2 Indoor Unit

FXC, FXF, FXK, FXYD, FXS, FXYB, FXM, FXH, FXA, FXL, FXN



DU220-602D

R1T : Thermistor for suction air temperature R2T : Thermistor for liquid line temperature R3T : Thermistor for gas line temperature

(mm)

Capacity	GAS	Liquid
20 / 25 / 32 / 40 L	φ12.7	φ6.4
50 / 63 / 80 L	φ15.9	φ9.5
100 / 125 L	φ19.1	ф9.5
200 L	φ25.4	φ12.7
250 L	ф28.6	φ12.7

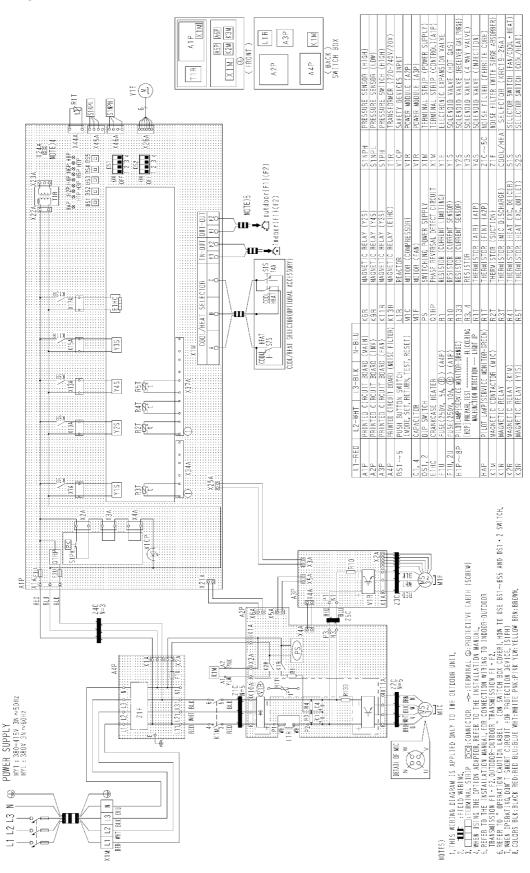
D041456B

2. Wiring Diagrams for Reference

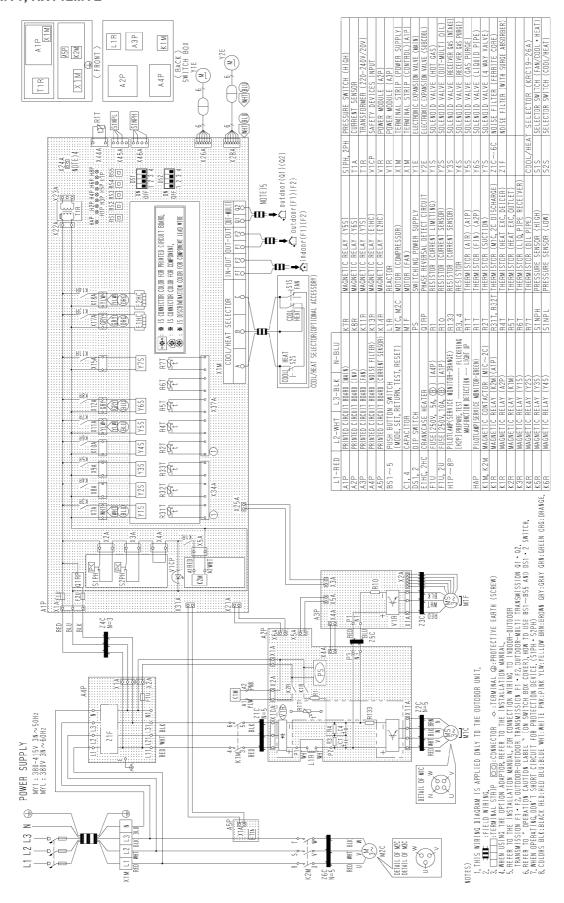
2.1 Outdoor Unit

2.1.1 Heat Pump

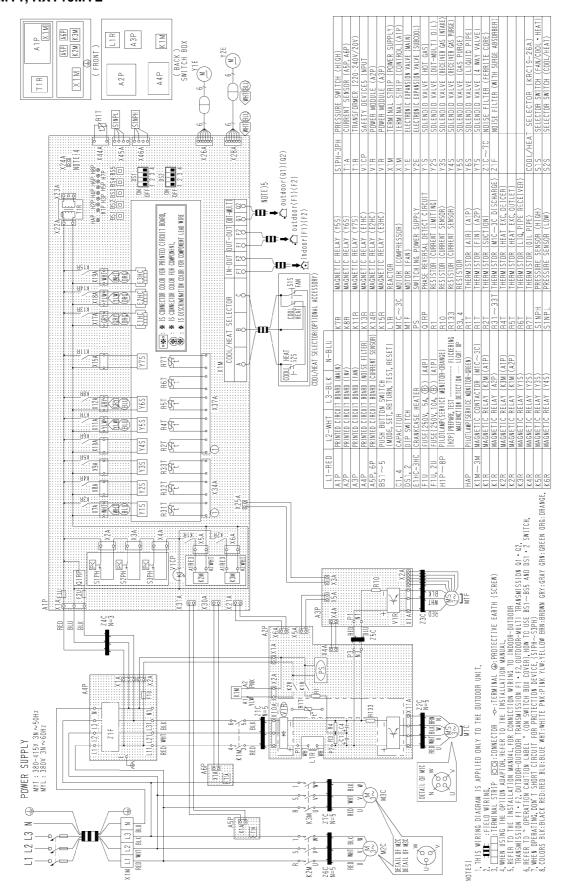
RXY5MY1, RXY5MYL



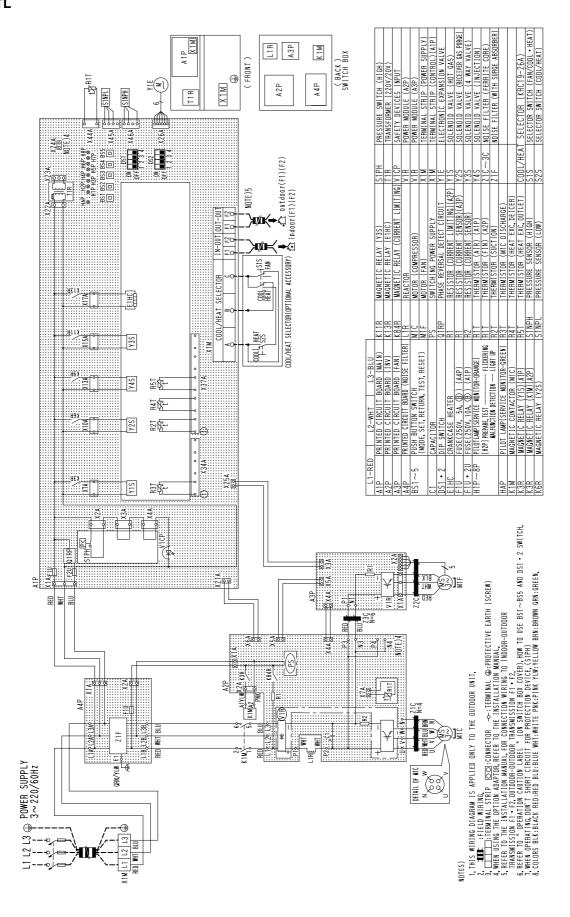
RXY8MY1, RXY8MYL RXY10MY1, RXY10MYL RXY12MY1, RXY12MYL



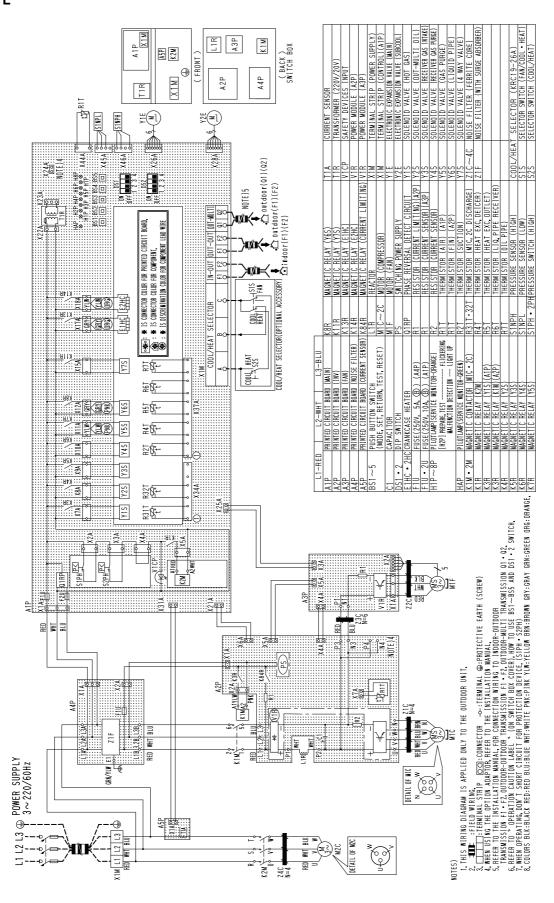
RXY14MY1, RXY14MYL RXY16MY1, RXY16MYL



RXY5MTL

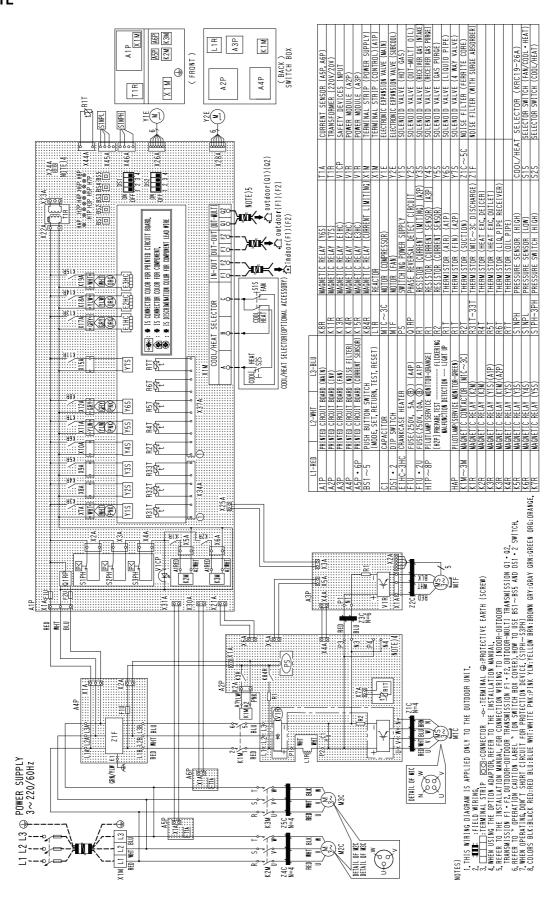


RXY8MTL RXY10MTL RXY12MTL



3D041830

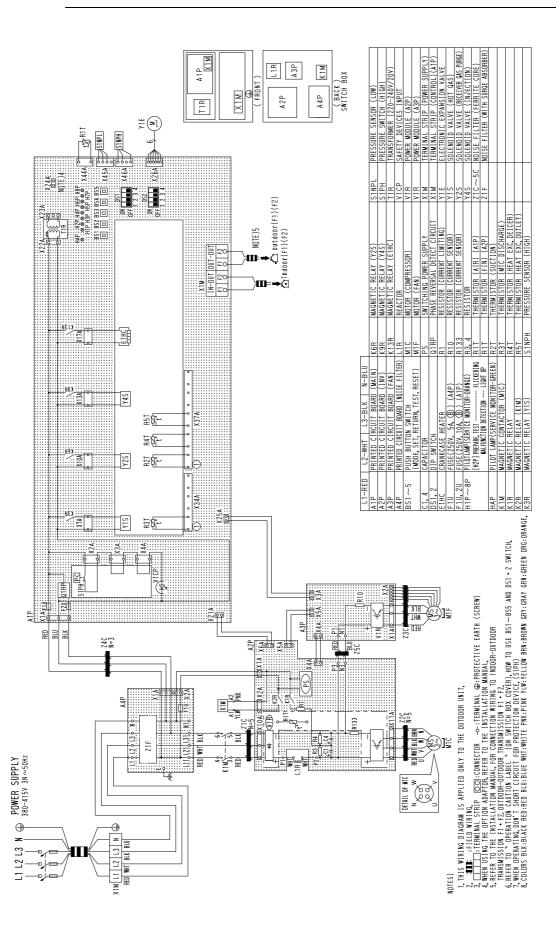
RXY14MTL RXY16MTL



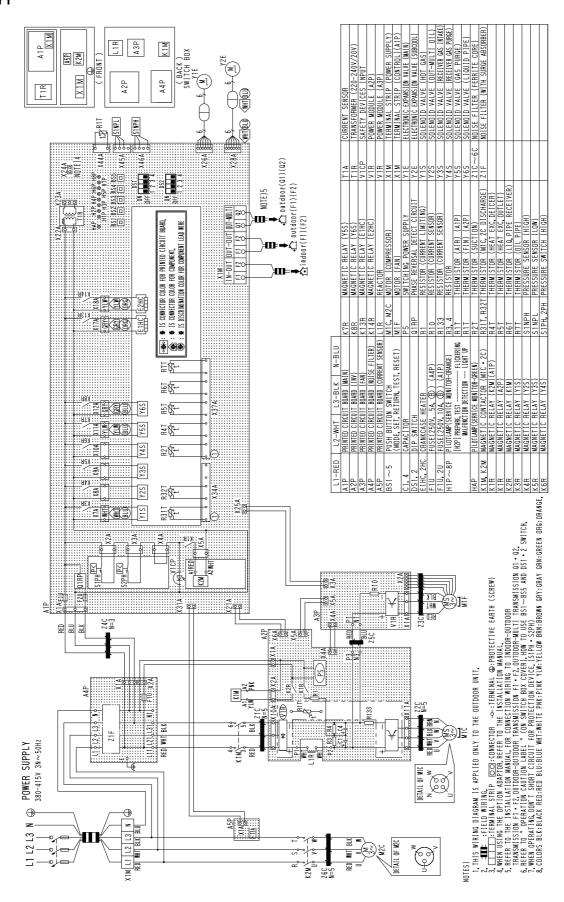
3D041805

2.1.2 Cooling Only

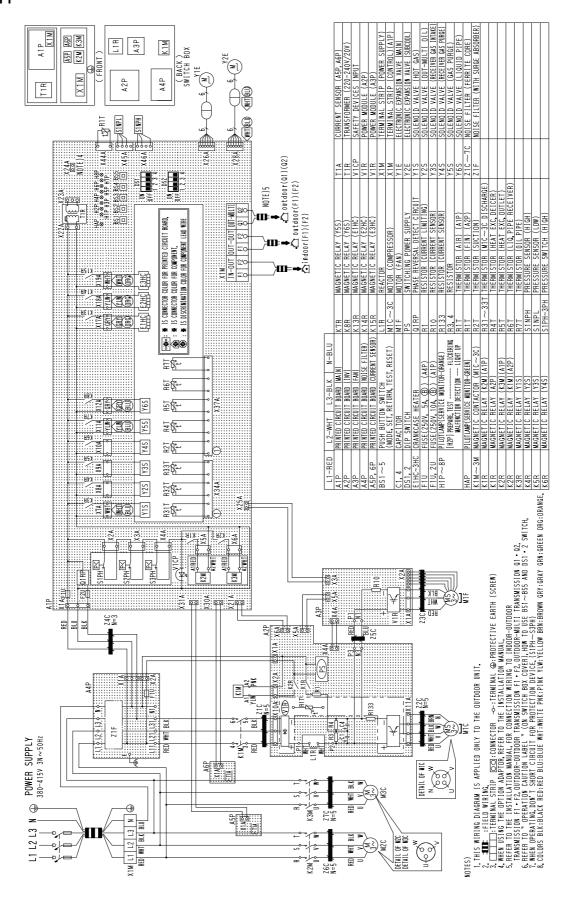
RX5MY1



RX8MY1 RX10MY1 RX12MY1



RX14MY1 RX16MY1



Field Wiring 2.2

2.2.1 50Hz / 60Hz

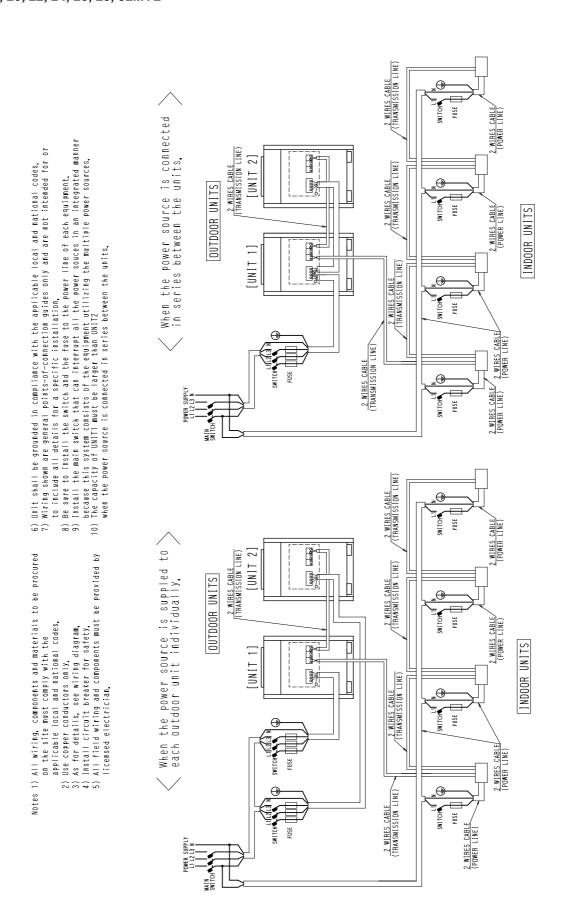
RX(Y)5, 8, 10, 12, 14, 16MY1 RX(Y)5, 8, 10, 12, 14, 16MYL

> 6) Unit shall be grounded in compliance with the applicable local and national codes.
> 7) Wiring shown are general points-of-connection guides only and are not intended for or to include all details for a specific installation.
> 8) Be sure to install the switch and the fuse to the power line of each equipment.
> 9) install the main switch that can interrupt all the power souces in an integrated manner because this system consists of the equipment utilizing the multiple power sources. 2 WIRES CABLE (TRANSMISSION LINE) SWITCH 📏 FUSE 2 WIRES CABLE (POWER LINE) 2 WIRES CABLE (TRANSMISSION LINE) SWITCH FUSE 2 WIRES CABLE (POWER LINE) on the site must comply with the applicable local and national codes. Use copper conductors only.
> As for details, see wring diagram. Install circuit breaker for safety.
> All field wiring and components must be provided by Notes 1) All wiring, components and materials to be procured 2 WIRES CABLE (TRANSMISSION LINE) OUTDOOR UNITS FUSE INDOOR UNITS 2 WIRES CABLE (POWER LINE) 2 WIRES CABLE (TRANSMISSION LINE) SWITCH 🖍 SWITCH FUSE FUSE 2 WIRES CABLE (POWER LINE) OWER SUPPL' MAIN SWITCH

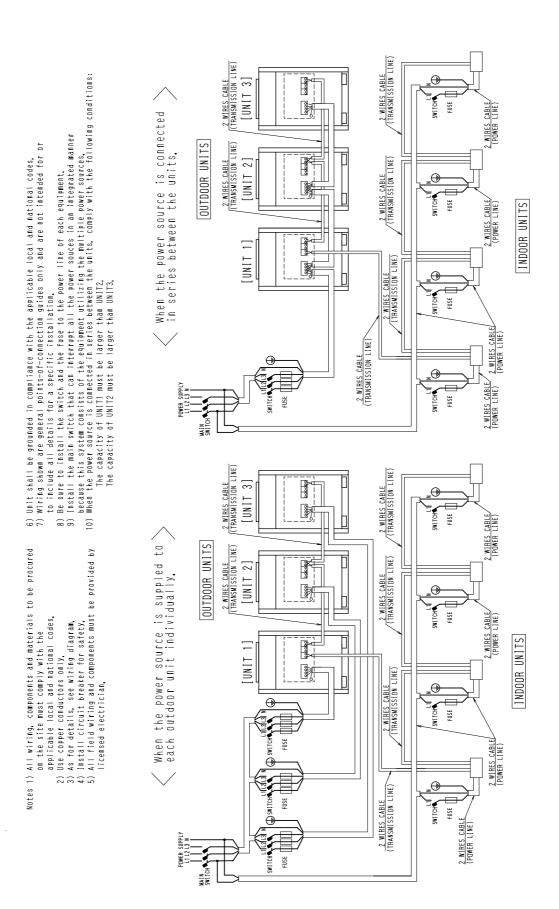
3D040746A 3D041987

RX(Y)18, 20, 22, 24, 26, 28, 32MY1 RX(Y)18, 20, 22, 24, 26, 28, 32MYL

> 3D040747A 3D041988



RX(Y)34, 36, 38, 40, 42, 44, 46, 48MY1 RX(Y)34, 36, 38, 40, 42, 44, 46, 48MYL



3D040748A 3D041989

2.2.2 60Hz

RXY5, 8, 10, 12, 14, 16MTL

6) Unit shall be grounded in compliance with the applicable local and national codes, 7) Wiring shown are general points-of-connection guides only and are not intended for or to include all details for a specific installation.
8) Be sure to install the switch and the fuse to the power line of each equipment.
9) Install the main switch that can interrupt all the power sources in an integrated manner because this system consists of the equipment utilizing the multiple power sources. 2 WIRES CABLE (TRANSMISSION LINE) SWITCH FUSE 2 WIRES CABLE (POWER LINE) 2 WIRES CABLE (TRANSMISSION LINE) SWITCH FUSE 2 WIRES CABLE (POWER LINE) Notes 1) All wiring, components and materials to be procured on the site must comply with the applicable local and national codes.

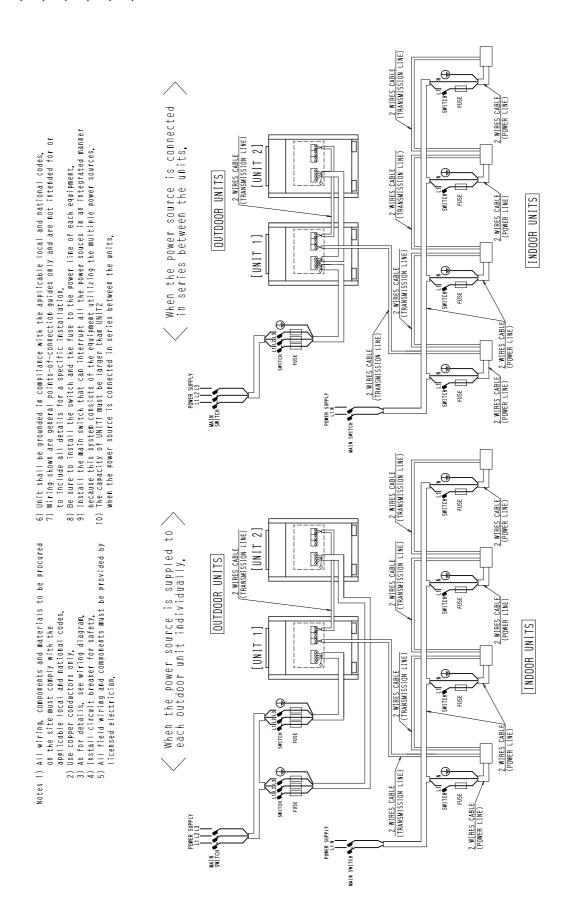
2) Use copper conductors only.

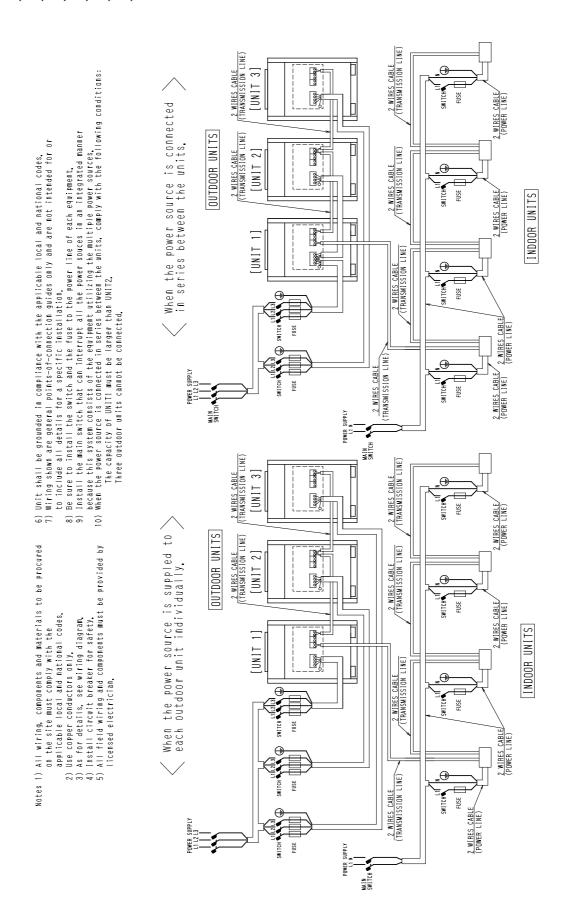
3) As for details, see wiring diagram.

4) Install circuit breaker for safety.

5) All field wiring and components must be provided by licensed electrician. 2 WIRES CABLE (TRANSMISSION LINE) OUTDOOR UNITS FUSE INDOOR UNITS 2 WIRES CABLE (POWER LINE) 2 WIRES CABLE (TRANSMISSION LINE) SWITCH FUSE FUSE SWITCH 2 WIRES CABLE (POWER LINE) POWER SUPPLY MAIN SWITCH MAIN SWITCH

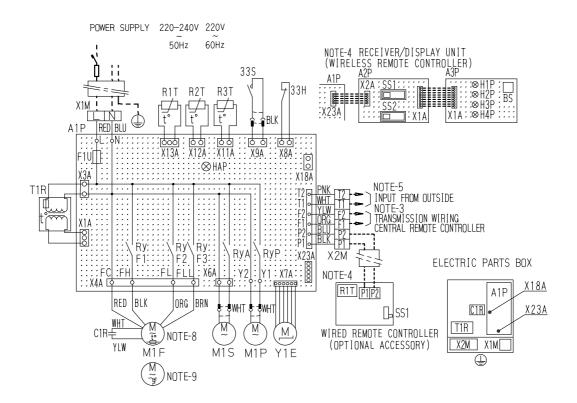
RXY18, 20, 22, 24, 26, 28, 30, 32MTL





Indoor Unit 2.3

FXC 20L / 25L / 32L / 63LVE



33H	FLOAT SWITCH	M1S	MOTOR (SWING FLAP)	WIRE	D REMOTE CONTROLLER	Н3Р	LIGHT EMISSION DIODE
335	LIMIT SWITCH	M1P	MOTOR(DRAIN PUMP)	R1T	THERMISTOR(AIR)		(FILTER SIGN-RED)
	(SWING FLAP)	Q1F	THERMO SWITCH(130t)	SS1	SELECTOR SWITCH	H4P	LIGHT EMISSION DIODE
A1P	PRINTED CIRCUIT BOARD		(M1F EMBEDDED)(NOTE-9)		(MAIN/SUB)		(DEFROST-ORANGE)
C1R	CAPACITOR(M1F)	R1T	THERMISTOR(AIR)	RE	CEIVER/DISPLAY UNIT	SS1	SELECTOR SWITCH
F1T	THERMAL FUSE(152°)		THERMISTOR(COIL)	WIREL	ESS REMOTE CONTROLLER)		(MAIN/SUB)
	(M1F EMBEDDED)(NOTE-8)	Rya	MAGNETIC RELAY(M1S)	A2P	PRINTED CIRCUIT BOARD	SS2	
F1U	FUSE(250V,5A,®)	RyF1-3	MAGNETIC RELAY(M1F)	A3P	PRINTED CIRCUIT BOARD		(WIRELESS ADDRESS SET
	OR -	RyP	MAGNETIC RELAY(M1P)		PUSH BUTTON(ON/OFF)		CTOR FOR OPTIONAL PARTS
	F10T 250V	T1R	TRANSFOMER(220-240V/22V)	H1P	LIGHT EMISSION DIODE	X18A	CONNECTOR WIRING ADAPTOR FOR
HAP	LIGHT EMITTING DIODE	X1M	TERMINAL STRIP(POWER)		(ON-RED)		FLECTORICAL APPENDICES
	(SERVICE MONITOR-GREEN)	X2M	TERMINAL STRIP(CONTROL)	H2P	LIGHT EMISSION DIODE	X23A	CONNECTOR
M1F	MOTOR(INDOOR FAN)	Y1E	ELECTRONIC		(TIMER-GREEN)		CONTROLLER)
L-	RED N-BLUE		EXPANSION VALVE				

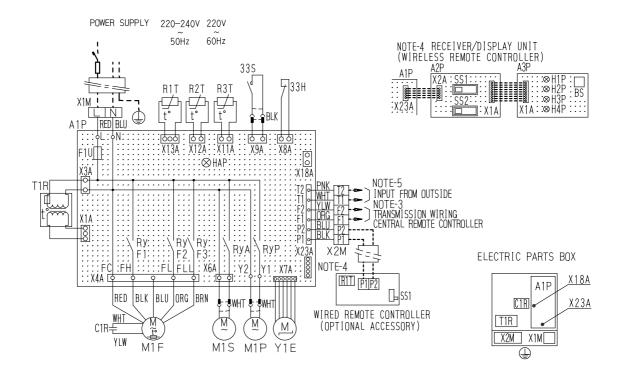
- NOTES) 1. _____:TERMINAL OO, ___:WIRE CLAMP

 - 2. ---: FIELD WIRING
 3. IN CASE USING CENTRAL REMOTE CONTROLLER, CONNECT IT TO THE UNIT
 - IN ACCORDANCE WITH THE ATTACHED INSTRUCTION MANUAL,
 4. X23A IS CONNECTED WHEN THE WIRELESS REMOTE CONTROLLER KIT IS BEING USED.
 - 5. WHEN CONNECTING THE INPUT WIRES FROM OUTSIDE, FORCED OFF OR ON/OFF CONTROL OPERATION CAN BE SELECTED BY REMOTE CONTROLLER.
 - IN DETAILS, REFER TO THE INSTALLATION MANUAL ATTACHED THE UNIT, 6.SYMBOLS SHOWS AS FOLLOWS,
 - PNK:PINK WHT:WHITE YLW:YELLOW ORG:ORANGE)
 BLU:BLUE BLK:BLACK RED:RED BRN:BROWN
 - 7. USE COPPER CONDUCTORS ONLY.

 - 8. ONLY FXC63LVE 9. ONLY FXC20 25 32LVE

3D034120A

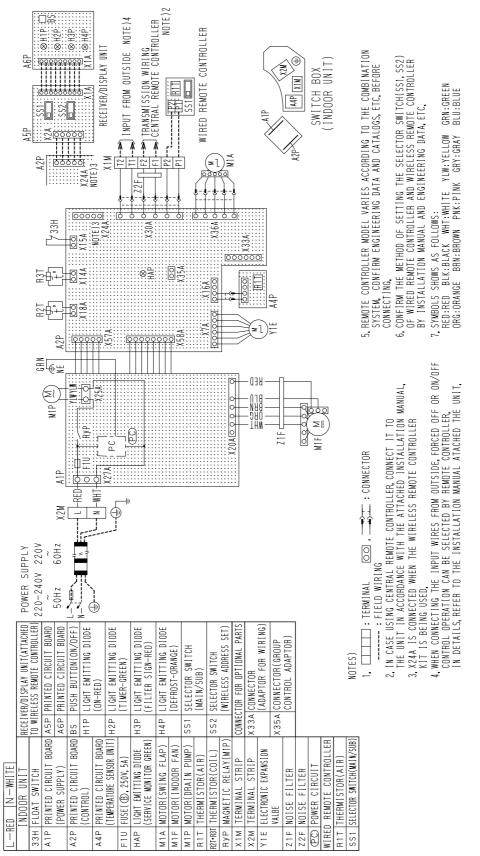
FXC 40L / 50L / 80L / 125LVE



FLOAT SWITCH	RyA	MAGNETIC RELAY(M1S)	111 D	LIGHT SHICKION BLODS	
		MAGNETTO NELATIMIS)	пін	LIGHT EMISSION DIODE	
LIMIT SWITCH	RyF1-3	MAGNETIC RELAY(M1F)		(ON-RED)	
(SWING FLAP)	RyP	MAGNETIC RELAY(M1P)	H2P	LIGHT EMISSION DIODE	
PRINTED CIRCUIT BOARD	T1R	TRANSFOMER(220-240V/22V)		(TIMER-GREEN)	
CAPACITOR(M1F)	X1M	TERMINAL STRIP(POWER)	Н3Р	LIGHT EMISSION DIODE	
THERMAL FUSE(152°)	X2M	TERMINAL STRIP(CONTROL)		(FILTER SIGN-RED)	
(M1F EMBEDDED)	Y1E	ELECTRONIC	H4P	LIGHT EMISSION DIODE	
FUSE(250V.5A.(B))		EXPANSION VALVE		(DEFROST-ORANGE)	
OR	WIRE	D REMOTE CONTROLLER	SS1	SELECTOR SWITCH	
F10T 250V	R1T	THERMISTOR(AIR)		(MAIN/SUB)	
LIGHT EMISSION DIODE	SS1	SELECTOR SWITCH	SS2	SELECTOR SWITCH	
(SERVICE MONITOR-GREEN)		(MAIN/SUB)		(WIRELESS ADDRESS SET	
MOTOR(INDOOR FAN)	RE		CONNE	CTOR FOR OPTIONAL PARTS	
MOTOR (SWING FLAP)	WIREL		X18A	CONNECTOR	
MOTOR(DRAIN PUMP)				(WIRING ADAPTOR FOR ELECTORICAL APPENDICES	
THERMISTOR(AIR)	A3P	PRINTED CIRCUIT BOARD	X23A	CONNECTOR (WIRELESS REMOTE	
THERMISTOR(COIL)	BS	PUSH BUTTON(ON/OFF)		CONTROLLER)	
RED N-BLUE					
	PRINTED CIRCUIT BOARD CAPACITOR[MIF] THERMAL FUSE(152's) (MIF EMBEDDED) FUSE(250'v, 5A, (B)) OR FIOT 250'v LIGHT EMISSION DIODE SERVICE MONITOR-GREEN) MOTORI(INDOOR FAN) MOTOR (SWING FLAP) MOTORIGHAIN PUMP) THERMISTORICA	PRINTED CIRCUIT BOARD TIR CAPACITORIMIF) X1 M THERMAL FUSE(152*) X2 M (MIF EMBEDDED) Y1E FUSE(250V,5A,®) OR FIOT 250V R1T LIGHT EMISSION DIODE SERVICE MONITOR-GREEN MOTOR (SWING FLAP) MOTOR (SWING FLAP) MOTOR (SWING FLAP) MOTOR THEMISTORIAL RI APPRILEMISTORIAL RI APPRILEMISTORICOLL BS	PRINTED CIRCUIT BOARD TIR TRANSFOMERIZZO-Z40V/ZZVI CAPACITORINIFI XI MI TERMINAL STRIPPOWER) THERMAL FUSE(1527) X2M TERMINAL STRIPPOWER) THERMAL FUSE(1527) X2M TERMINAL STRIPPOWER) THE EMBEDDED THE EMBEDDED THE EMBEDDED THE EMBEDDED THE EMBISTORIAL R THE EMBISTORIAL R THE THE MISTORIAL R MOTORIGOR FAN) MOTORIGOR FAN) MOTORIGORAL R MOTOR	PRINTED CIRCUIT BOARD TIR IRAMSFOWERI220-240V/2V CAPACITORIMIF X 1 M ITEMNINAL STRIP[POWER) H 3P THERMAL FUSE[1525] X 2 M ITEMNINAL STRIP[POWER) H 3P THERMAL FUSE[1525] X 2 M ITEMNINAL STRIP[POWER) H 3P THERMIS CONTROLLER Y 2 M TEMNINAL STRIP[POWER) H 3P THERMIS CONTROLLER Y 2 M WIRED REMOTE CONTROLLER S S 1 THERMIS STORIAL R S S 1 WATORI INDODE FAN MOTORI (SWING FLAP) WIRELS REMOTE CONTROLLER MOTORI (SWING FLAP) A 2P PRINTED CIRCUIT BOARD THERMIS TORICOIL B S PUSH BUTTON(DN/OFF)	

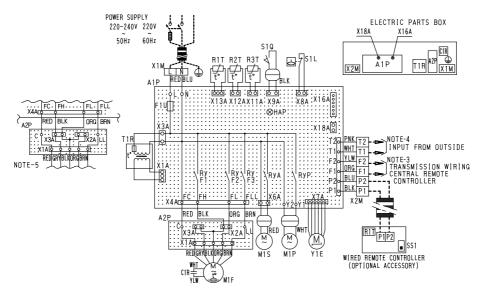
- NOTES) 1. _____:TERMINAL OO, ____;I :CONNECTOR —O—:WIRE CLAMP
 2. ————:FIELD WIRING
 3. IN CASE USING CENTRAL REMOTE CONTROLLER, CONNECT IT TO THE UNIT
 IN ACCORDANCE WITH THE ATTACHED INSTRUCTION MANUAL,
 4. X23A IS CONNECTED WHEN THE WIRELSS REMOTE CONTROLLER KIT IS
 BEING USED,
 5. WHEN CONNECT IN THE INPUT WIRES FROM OUTSIDE, FORCED OFF OR
 ON/OFF CONTROLL OPERATION CAN BE SELECTED BY REMOTE CONTROLLER,
 IN DETAILS, REFER TO THE INSTALLATION MANUAL ATTACHED THE UNIT.
 6. SYMBOLS SHOWS AS FOLLOWS,
 / PNK:PINK WHI:WHITE YLW:YELLOW ORG:ORANGE \)
 - (PNK:PINK WHT:WHITE YLW:YELLOW ORG:ORANGE)
 - 7. USE COPPER CONDUCTORS ONLY.

FXF25L / 32L / 40L / 50L / 63L / 80L / 100L / 125LVE



3D033829A

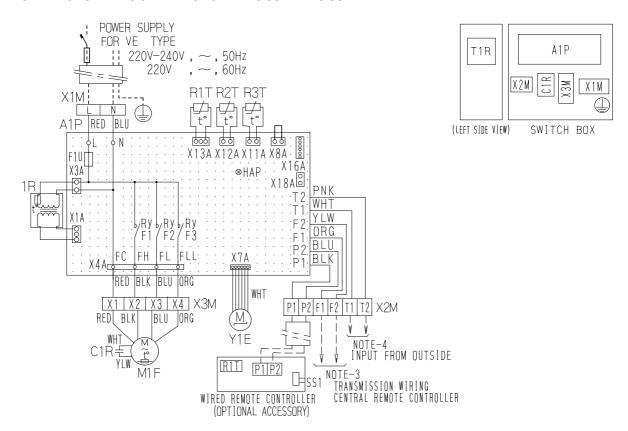
FXK 25L / 32L / 40L / 63LVE



A1P	PRINTED CIRCUIT BOARD	RyA	MAGNETIC RELAY(M1S)
A2P	TERMINAL BOARD	RyF1-3	MAGNETIC RELAY(M1F)
C1R	CAPACITOR (M1F)	RyP	MAGNETIC RELAY(M1P)
F1T	THERMAL FUSE(105%)	S1L	FLOAT SWITCH
	(M1F EMBEDDED)	S1Q	LIMIT SWITCH(SWING FLAP)
F1U	FUSE(250V,5A,®)	T1R	TRANSFOMER(220-240V/22V)
	OR	X 1 M	TERMINAL STRIP(POWER)
	F5T 250V	X2M	TERMINAL STRIP(CONTROL)
HAP	LIGHT EMITTING DIODE	Y1E	ELECTRONIC EXPANSION
	(SERVICE MONITOR-GREEN)		VALVE
M1F	MOTOR (INDOOR FAN)	WIRED	REMOTE CONTROLLER
M1P	MOTOR (DRAIN PUMP)	R1T	THERMISTOR(AIR)
M1S	MOTOR (SWING FLAP)	SS1	SELECTOR SWITCH (MAIN/SUB)
R1T	THERMISTOR(AIR)	CONNECT	OR FOR OPTIONAL PARTS
R2T·3T	THERMISTOR(COIL)	X16A	CONNECTOR(ADAPTOR FOR WIRING)
		X18A	CONNECTOR(WIRING ADAPTOR
			FOR ELECTORICAL APPENDICES)

NOTES) 1. TERMINAL BLOCK, OO, D—:CONNECTOR, —O—: TERMINAL
2. ———: FIELD WIRING
3. IN CASE USING CENTRAL REMOTE CONTROLLER, CONNECT IT TO
THE UNIT IN ACCORDANCE WITH THE ATTACHED INSTRUCTION MANUAL,
4. WHEN CONNECTING THE INPUT WIRES FROM OUTSIDE, FORCED OFF OR ON/OFF
CONTROL OPERATION CAN BE SELECTED BY REMOTE CONTROLLER,
IN DETAILS, REFER TO THE INSTALLATION MANUAL ATTACHED THE UNIT.
5. IN CASE HIGH E, S.P. OPERATION, CHANGE OVER THE WIRING CONNECTION FROM X2A TO X3A,
6. SYMBOLS SHOW AS FOLLOWS, (PMK:PINK WHT:WHITE YLW:YELLOW ORG:ORANGE BLU:BLUE
BLK:BLACK RED:RED BRN:BROWN GRY:GRAY)
7. USE COPPER CONDUCTORS ONLY.

FXYD20KAVE / 25KAVE / 32KAVE / 40KAVE / 50KAVE / 63KAVE



A1P	PRINTED CIRCUIT BOARD
C1R	CAPACITOR (M1F)
F1T	THERMAL FUSE (M1F EMBEDDED)
	(135±5℃:OFF、95±15℃:ON)
F1U	FUSE (250V,10A)
HAP	LIGHT EMITTING DIODE
	(SERVICE MONITOR-GREEN)
M1F	MOTOR (INDOOR FAN)
R1T	THERMISTOR(AIR)
R2T•3T	THERMISTOR(COIL)
RyF1-3	MAGNETIC RELAY(M1F)
T1R	TRANSFOMER(220-240V/22V)
X1M	TERMINAL STRIP(POWER)
X2M	TERMINAL STRIP(CONTROL)
ХЗМ	TERMINAL STRIP
Y1E	ELECTRONIC EXPANSION VALVE
CONN	ECTOR FOR OPTIONAL PARTS
	CONNECTOR(ADAPTOR FOR WIRING)
X18A	CONNECTOR(WIRING ADAPTOR
	FOR ELECTRICAL APPENDICES)
WI	RED REMOTE CONTROLLER
R1T	THERMISTOR(AIR)
SS1	SELECTOR SWITCH(MAIN/SUB)
L-REI) N-BLUE

NOTES)

1. TERMINAL —— : WIRE CLAMP

OO : CONNECTOR JUMPER CONNECTOR

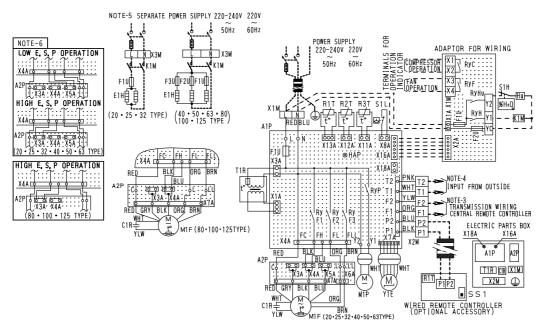
2. ---- : FIELD WIRING

- 3. IN CASE USING CENTRAL REMOTE CONTROLLER, CONNECT IT TO THE UNIT IN ACCORDANCE WITH THE ATTACHED INSTRUCTION MANUAL.
- 4. WHEN CONNECTING THE INPUT WIRES FROM OUTSIDE, FORCED OFF OR ON/OFF CONTROL OPERATION CAN BE SELECTED BY REMOTE CONTROLLER, IN DETAILS, REFER TO THE INSTALLATION MANUAL ATTACHED THE UNIT.
- 5. SYMBOLS SHOW AS FOLLOWS.

 (PNK:PINK WHT:WHITE YLW:YELLOW ORG:ORANGE BLU:BLUE BLK:BLACK RED:RED BRN:BROWN)
- 6. USE COPPER CONDUCTORS ONLY.

3D024108A

FXS 20L / 25L / 32L / 40L / 50L / 63L / 80L / 100L / 125LVE

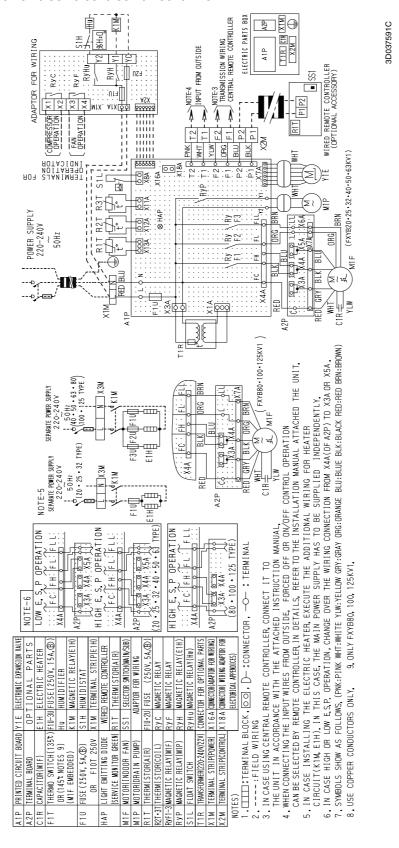


- NOTES)

 1. IIIITERMINAL BLOCK, OO, D-: CONNECTOR, OO: TERMINAL
 2. ----:FIELD WIRING
 3. IN CASE USING CENTRAL REMOTE CONTROLLER, CONNECT IT TO
 THE UNIT IN ACCORDANCE WITH THE ATTACHED INSTRUCTION MANUAL,
 4. WHEN CONNECTING THE INPUT WIRES FROM OUTSIDE, FORCED OFF OR ON/OFF CONTROL OPERATION
 CAN BE SELECTED BY REMOTE CONTROLLER IN DETAILS, REFER TO THE INSTALLATION MANUAL ATTACHED THE UNIT,
 5. IN CASE INSTALLING THE ELECTIC HEATER, EXECUTE THE ADDITIONAL WIRING FOR HEATER
 CIRCUIT(KIM, EIH). IN THIS CASE, THE MAIN POWER SUPPLY HAS TO BE SUPPLIED INDEPENDENTLY,
 6. IN CASE HIGH OR LOW E.S.P. DERRATION, CHANGE OVER THE WIRING CONNECTION FROM X4A(OF AZP) TO X3A OR X5A,
 7. SYMBOLS, SHOW AS EDILIONS (PRIX-PINK WHIT-WHITE VILVY-FILING PROBLEMENTS REPREDIAN)
 REPROPRY
- 7. SYMBOLS SHOW AS FOLLOWS, (PNK:PINK WHT:WHITE YLW:YELLOW ORG:ORANGE BLU:BLUE BLK:BLACK RED:RED BRW:BROWN)
- 8. USE COPPER CONDUCTORS ONLY.

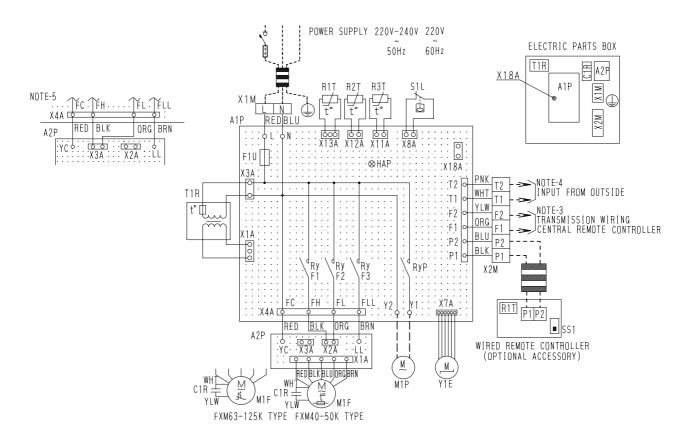
A1P	PRINTED CIRCUIT BOARD	Y 1 E	ELECTRONIC EXPANSION VALVE
A2P	TERMINAL BOARD	0P1	TIONAL PARTS
C1R	CAPACITOR(M1F)	F1U-3U	FUSE(250V, 15A,®)
F1T	THERMAL FUSE(152%)	Ηu	HUMIDIFIER
	(M1F EMBEDDED)	E1H	ELECTRIC HEATER
F1U	FUSE(250V,10A,®)	K1M	MAGNETIC RELAY(E1H)
	OR	S1H	HUMIDISTAT
	F10T 250V	X3M	TERMINAL STRIP(E1H)
HAP	LIGHT EMITTING DIODE	WIRE	D REMOTE CONTROLLER
	(SERVICE MONITOR GREEN)	R1T	THERMISTOR(AIR)
M1F	MOTOR(INDOOR FAN)	SS1	SELECTOR SWITCH(MAIN/SUB)
M1P	MOTOR(DRAIN PUMP)	A	DAPTOR FOR WIRING
R1T	THERMISTOR(AIR)	F1U•2U	FUSE (250V, 5A,®)
R2T·3T	THERMISTOR(COIL)	RyC	MAGNETIC RELAY
RyF1-3	MAGNETIC RELAY(M1F)	RyF	MAGNETIC RELAY
RyP	MAGNETIC RELAY(M1P)	RyH	MAGNETIC RELAY(E1H)
S1L	FLOAT SWITCH	RyHu	MAGNETIC RELAY(Hu)
T1R	TRANSFORMER(220-240V/22V)	CONNEC	TOR FOR OPTIONAL PARTS
X 1 M	TERMINAL STRIP(POWER)	X16A	CONNECTOR(ADAPTOR FOR WIRING)
X2M	TERMINAL STRIP(CONTROL)	X18A	CONNECTOR(WIRING ADAPTOR FOR
			ELECTORICAL APPENDICES)

FXYB20K / 25K / 32K / 40K / 50K / 63K/ 80K / 100K/ 125KV1



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FXM 40L / 50L / 63L / 80L / 100L / 125LVE



A1P	PRINTED CIRCUIT BOARD	R2T•3T	THERMISTOR(COIL)	CONNE	CTOR FOR OPTIONAL PARTS
A2P	TERMINAL BOARD	RyF1-3	MAGNETIC RELAY(M1F)	X18A	CONNECTOR(WIRING ADAPTOR
C1R	CAPACITOR(M1F)	RУР	MAGNETIC RELAY(M1P)		FOR ELECTORICAL APPENDICES)
F1T	THERMAL FUSE(153℃)	S1L	FLOAT SWITCH		
	(M1F BUILT-IN	T1R	TRANSFORMER(220-240V/22V)		
	ONLY40·50TYPE))	X 1 M	TERMINAL STRIP(POWER)		
F1U	FUSE (250V, 10A, B)	X 2 M	TERMINAL STRIP(CONTROL)		
	OR	Y1E	ELECTRONIC		
	F10T 250V		EXPANSION VALVE		
HAP	LIGHT EMITTING DIODE	0P	TIONAL PARTS		
	(SERVICE MONITOR-GREEN)	M1P	MOTOR (DRAIN PUMP)		
M1F	MOTOR(INDOOR FAN)	WIRED	REMOTE CONTROLLER		
Q1F	THERMO SWITCH	SS1	SELECTOR SWITCH		
	(M1F BUILT-IN		(MAIN/SUB)		
	ONLY63-125TYPE)	R1T	THERMISTOR(AIR)		
R1T	THERMISTOR(AIR)		-		

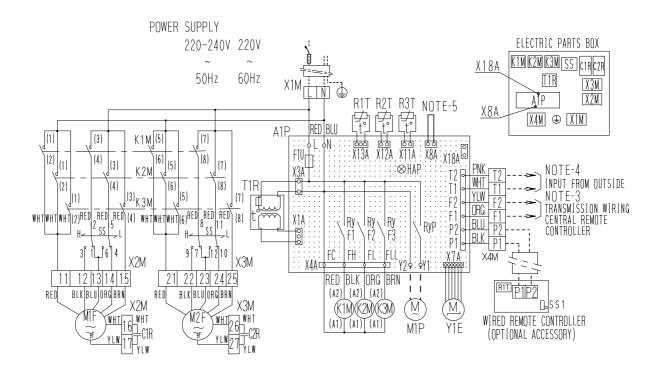
NOTES)

- 1. ☐☐☐ :TERMINAL, ◯◯ , ➡☐ :CONNECTOR, —─ :WIRE CLAMP
- 2. --- :FIELD WIRING
- 3 IN CASE USING CENTRAL REMOTE CONTROLLER, CONNECT IT TO THE UNIT IN ACCORDANCE WITH THE ATTACHED INSTRUCTION MANUAL,
- 4. WHEN CONNECTING THE INPUT WIRES FROM OUTSIDE, FORCED OFF OR ON/OFF CONTROL OPERATION CAN BE SELECTED BY REMOTE CONTROLLER. IN DETAILS, REFER TO THE INSTALLATION MANUAL ATTACHED THE UNIT.
- 5. IN CASE HIGH E.S.P. OPERATION, CHANGE THE WIRING CONNECTION OF X2A AS SHOWN UPPER FIGURE.
- 6. SYMBOLS SHOW AS FOLLOWS, (PNK:PINK WHT:WHITE YLW:YELLOW ORG:ORANGE BLU:BLUE BLK:BLACK RED:RED BRN:BROWN)

7. USE COPPER CONDUCTORS ONLY.

3D034209A

FXM 200L / 250LVE

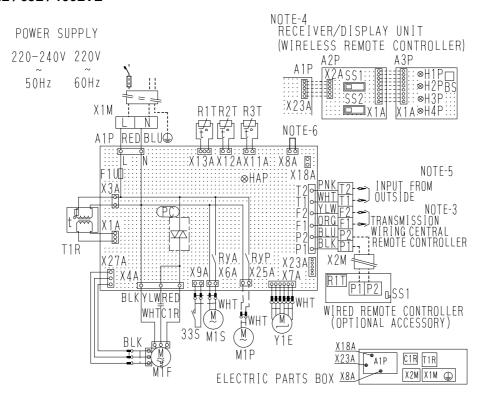


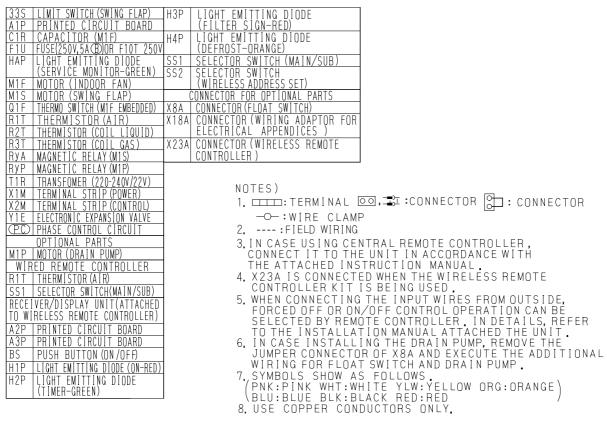
NOTES)

- 1. □□□, →-: TERMINAL , ⇉: CONNECTOR --: WIRE CLAMP ك: JUMPER CONNECTOR
- 2. ----: FIELD WIRING
- 3. IN CASE USING CENTRAL REMOTE CONTROLLER, CONNECT IT TO THE THE UNIT IN ACCORDANCE WITH THE ATTACHED INSTRUCTION MANUAL.
- 4. WHEN CONNECTING THE INPUT WIRES FROM OUTSIDE, FORCED OFF OR ON/OFF CONTROL OPERATION CAN BE SELECTED BY REMOTE CONTROLLER IN DETAILS, REFER TO THE INSTALLATION MANUAL ATTACHED THE UNIT.
- 5. IN CASE INSTALLING THE DRAIN PUMP, REMOVE THE JUMPER AND EXECUTE THE ADDITIONAL WIRING FOR FLOAT SWITCH(33H).
 - X8A 🖺 🖂 33H
- 6. SYMBOLS SHOW AS FOLLOWS (PNK:PINK WHT:WHITE YLW:YELLOW ORG:ORANGE BLU:BLUE BLK:BLACK RED:RED BRN:BROWN)
- 7. USE COPPER CONDUCTORS ONLY.
- 8, IN CASE HIGH E.S.P. OPERATION, CHANGE THE SWITCH(SS) FOR "H".

A1P	PRINTED	CIRCUIT BOARD	RyF1-F3	MAGNETIC RELAY(M1F·2F)
C1R • 2R	CAPACITO	R (M1F·2F)	RyP	MAGNETIC RELAY(M1P)
F1U	FUSE(25	50V,10A,(B))	SS	SELECTOR SWITCH
		OR		(STATIC PRESSURE)
	F107	250V	T1R	TRANSFOMER(220-240V/22V)
HAP	LIGHT EMIT	TING DIODE	X 1 M	TERMINAL STRIP(POWER)
	(SERVICE M	ONITOR-GREEN)	X2M-4M	TERMINAL STRIP(CONTROL)
K1M	MAGNETIC (CONTACTOR(M1F·2F)	Y1E	ELECTRONIC EXPANSION VALVE
K2M	MAGNETIC (CONTACTOR(M1F·2F)		OPTIONAL PARTS
K3M	MAGNETIC (CONTACTOR(M1F·2F)	M1P	MOTOR (DRAIN PUMP)
M1F • 2F	MOTOR (I	NDOOR FAN)	WIR	ED REMOTE CONTROLLER
Q1F	THERMO S	WITCH	R1T	THERMISTOR(AIR)
	(M1F•2F	EMBEDDED)	SS1	SELECTOR SWITCH(MAIN/SUB)
	THERMIST		CONNE	ECTOR FOR OPTIONAL PARTS
R2T·3T	THERMIST	OR(COIL)	X8A	CONNECTOR(FLOAT SWITCH)
L-	-RED	N-BLUE	X18A	CONNECTOR(WIRING ADAPTOR FOR ELECTORICAL APPENDICES)

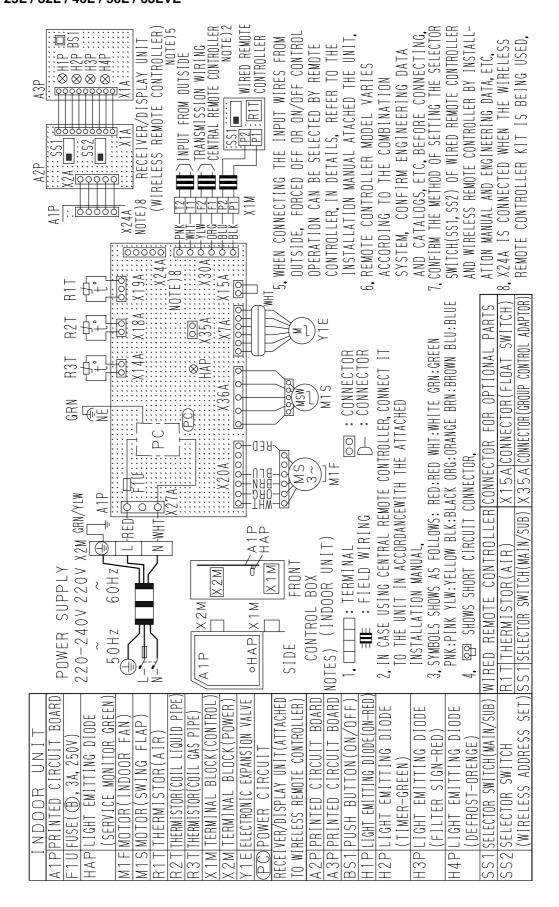
FXH 32L / 63L / 100LVE



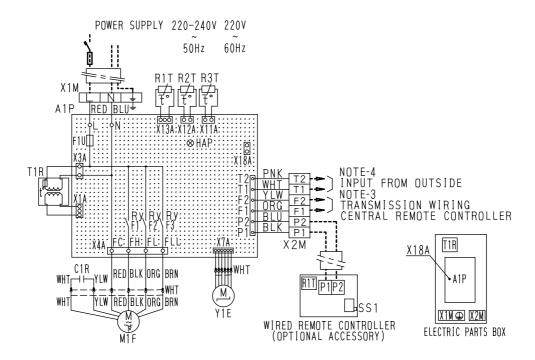


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FXA20L / 25L / 32L / 40L / 50L / 63LVE

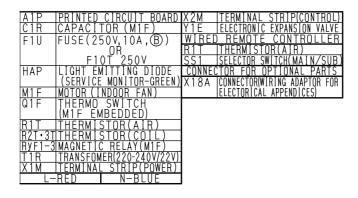


FXL 20L / 25L / 32L / 40L / 50L / 63LVE FXN 20L / 25L / 32L / 40L / 50L / 63LVE



NOTES)

- 1. □□□:TERMINAL, , ➡: CONNECTOR, ——:WIRE CLAMP
- 2. ---: FIELD WIRING
- 3. IN CASE USING CENTRAL REMOTE CONTROLLER, CONNECT IT TO THE UNIT IN ACCORDANCE WITH THE ATTACHED INSTRUCTIO MANUAL,
- 4. WHEN CONNECTING THE INPUT WIRES FROM OUTSIDE, FORCED OFF OR ON/OFF CONTROL OPERATION CAN BE SELECTED BY REMOTE CONTROLLER, IN DETAILS, REFER TO THE INSTALLATION MANUAL ATTACHED THE UNIT.
- 5. SYMBOLS SHOW AS FOLLOWS. (PNK:PINK WHT:WHITE YLW:YELLOW ORG:ORANGE BLU:BLUE BLK:BLACK RED:RED BRN:BROWN)
- 6. USE COPPER CONDUCTORS ONLY.



3D034183A

3. List of Electrical and Functional Parts

3.1 Outdoor Unit

3.1.1 RXY5~16MY1

Item	Name			Symbol	Model Provide			
			1_		RXY5MY1	RXY8MY1	RXY10MY1	
Compressor	Inverter		Type Output	M1C	JT1FBVDKYR 3.2kW	JT1FBVDKTYR 1.2kW	JT1FBVDKTYR 2.7kW	
			Type Output	M2C	_	JT170FBKYE 4.5kW	JT170FBKYE 4.5kW	
	STD.2					_		
	Crankca	se heater (INV		E1HC		240V 33W		
		se heater (STI	,	E2HC	_		′ 33W	
		se heater (STI	,	E3HC		_		
	OC prote	ection device fo	or STD	_	_	10	3A	
Fan motor	Motor			M1F	0.35kw	0.7	5kw	
Functional parts	Electron valve (M	ic expansion ain)	Cooling Heating	Y1E	2000pls	Op PI control	ols	
	Electron valve (S	ic expansion	Cooling	Y2E	_	PI co	ontrol	
	·		Heating	V4.0	TEV4000000		ols ·603D	
		l valve (Hot ga I valve (Extern	•	Y1S Y2S	TEV1620DQ2		20DQ2	
	Solenoic	I valve (Externi I valve (Receiv		Y3S	<u> </u>	_	20DQ2	
	charge)	Lvalve (Receiv	er nas	Y4S	_	VPV-603D		
	discharg	Solenoid valve (Receiver gas discharge)			TEV1620DQ2	——————————————————————————————————————		
	Solenoid valve (Injection)			Y2S Y4S	TEV1620DQ2	_		
	Solenoid valve (Non-operating unit gas discharge)			Y5S	_	TEV16	20DQ2	
	Solenoid valve (Non-operating unit liquid pipe close)			Y6S	_	VPV-80	03DQ50	
	4 way valve			Y3S	VT3101C	_		
				Y7S	_	VHV-0404		
Pressure-		e switch (INV)		S1PH	PS80 ON: 2.7+0/-0.1MPa OFF: 1.9±0.15MPa			
related parts	Pressure switch (STD1)			S2PH	— PS80 ON : 2.7+0/-0.1MPa OFF : 1.9±0.15MPa			
	Pressure	switch (STD2	2)	S3PH		_		
	Fusible	Fusible plug				FPGH-3D 70 to 75°C	;	
	Pressure sensor (HP)			S1NPH	PS8050A 0 to 3.33MPa			
	Pressure	e sensor (LP)		S1NPL	PS	8050A -0.05 to 0.98N	ЛРа	
Thermistor	INV PCB	For fin		R1T	3.5 to 360Ω			
	Main	For outdoor a		R1T		3.5 to 360 Ω		
	PCB	For suction p	-	R2T		3.5 to 360Ω		
		For discharge (INV)	e pipe	R3T	3.5 to 400Ω	_	_	
				R31T	_		400Ω	
		For discharge pipe (STD.1) For discharge pipe (STD.2)		R32T	— 3.5 to 400Ω		40002	
				R33T	_			
	For heat exch			R4T		3.5 to 360Ω		
		For subcooling heat exchanger		R5T	3.5 to 360Ω			
		For receiver l		R6T	$-$ 3.5 to 360 Ω		360Ω	
		For equalizin	g pipe	R7T	$-$ 3.5 to 360 Ω			
Others	Fuse (A			F1, 2U		250VAC 10A		
	Fuse (A4	4P)		F1U		250VAC 5A		

Itom	Name			Cumbal	Model			
Item	Name			Symbol	RXY12MY1	RXY14MY1	RXY16MY1	
Compressor	Inverter		Type Output	M1C	JT1FBVDKTYR 4.2kW	JT1FBVDKTYR 2.0kW	JT1FBVDKTYR 3.0kW	
	STD.1		Type Output	M2C	JT170FBKYE 4.5kW	JT170FBKYE 4.5kW	JT170FBKYE 4.5kW	
	STD.2		Type Output	МЗС	_	JT170FBKYE 4.5kW	JT170FBKYE 4.5kW	
	Crankca	se heater (INV	1	E1HC		240V 33W		
		se heater (STI	,	E2HC		240V 33W		
	Crankca	se heater (STI	D.2)	E3HC	_	240V	′ 33W	
	OC prote compres	ection device f	or STD	_		13A		
Fan motor	Motor			M1F		0.75kw		
Functional parts		ic expansion	Cooling	Y1E		0pls		
	valve (M	<u> </u>	Heating			PI control		
		ic expansion	Cooling	Y2E		PI control		
	valve (Si	ubcool)	Heating			0pls		
	Solenoid	l valve (Hot ga	s)	Y1S	VPV-603D	TEV16	20DQ2	
	Solenoid	l valve (Extern	al multi oil)	Y2S		TEV1620DQ2		
	charge)	I valve (Receiv		Y3S	TEV1620DQ2			
	Solenoid valve (Receiver gas discharge)			Y4S	VPV-603D			
	Solenoid valve (Non-operating unit gas discharge)			Y5S	TEV1620DQ2			
	Solenoid unit liqui	Solenoid valve (Non-operating unit liquid pipe close)			VPV-803DQ50			
	4 way valve			Y7S	VHV0404 VT60100			
Pressure-	Pressure	switch (INV)		S1PH	PS80 ON: 2.7+0/-0.1MPa OFF: 1.9±0.15MPa			
related parts		switch (STD1	<i>'</i>	S2PH	PS80 ON: 2.7+0/-0.15MPa OFF: 1.9±0.15MPa			
	Pressure	e switch (STD2	2)	S3PH				
	Fusible p	olug			F	PGH-3D 70 to 75°c	;	
	Pressure	e sensor (HP)		S1NPH	PS	S8050A 0 to 3.33MF	² a	
	Pressure	e sensor (LP)		S1NPL	PS8050A -0.05 to 0.98MPa			
Thermistor	INV PCB	For fin		R1T		3.5 to 360Ω		
	Main	For outdoor a	air	R1T		3.5 to 360Ω		
	PCB	For suction p	ipe	R2T		3.5 to 360Ω		
		For discharge (INV)	e pipe	R31T		3.5 to 400Ω		
		For discharge pipe (STD.1) For discharge pipe (STD.2)		R32T	3.5 to 400Ω			
				R33T	— 3.5 to 400Ω			
	For heat exchanger For subcooling heat exchanger		R4T	3.5 to 360Ω				
			·	R5T		3.5 to 360Ω		
		For receiver	or receiver liquid pipe		3.5 to 360Ω			
		For equalizin	g pipe	R7T	3.5 to 360Ω			
Others	Fuse (A1	IP)		F1, 2U	250VAC 10A			
	Fuse (A4	1P)		F1U	250VAC 5A			

3.1.2 RXY5~16MYL

Item	Name			Symbol	Model				
ilelli	ivanie			Syllibol	RXY5MYL RXY8MYL RXY10MYL				
Compressor	Inverter		Type Output	M1C	JT1FBVDKYR 3.2kW	JT1FBVDKTYR 1.2kW	JT1FBVDKTYF 2.7kW		
	STD.1		Туре	M2C	_	JT170FBKYH 4.5kW	JT170FBKYH 4.5kW		
	STD.2		Output Type Output	МЗС		_			
	Crankcas	e heater (INV		E1HC		200V 33W			
		e heater (STI	·	E2HC	_	+	33W		
		e heater (STI		E3HC		_			
	OC protection compress	ction device f	or STD	1	_	13	3A		
Fan motor	Motor			M1F	0.35kw	0.7	5kw		
Functional parts	Electronic valve (Ma	c expansion ain)	Cooling Heating	Y1E	2000pls	Op PI control	ols		
	Electronic	expansion	Cooling	Y2E	_	PI co	ontrol		
	valve (Su	bcool)	Heating			Op	ols		
	Solenoid	valve (Hot ga	s)	Y1S	TEV1620DQ2				
	Solenoid	valve (Extern	al multi oil)	Y2S	_	TEV16	20DQ2		
	Solenoid charge)	valve (Receiv	er gas	Y3S	_	TEV1620DQ2			
		Solenoid valve (Receiver gas			_	VPV-603D			
	discharge)			Y2S	TEV1620DQ2	_	_		
	Solenoid valve (Injection)			Y4S					
	Solenoid valve (Non-operating unit gas discharge)			Y5S	_	TEV16	20DQ2		
	Solenoid valve (Non-operating unit liquid pipe close)			Y6S	_	VPV-803DQ50			
	4 way val	4 way valve			VT3101C	_			
	_				_	VHV-0404			
Pressure- related parts	Pressure switch (INV)			S1PH	PS80 ON: 2.7+0/-0.1MPa OFF: 1.9±0.15MPa				
,	Pressure	switch (STD1)	S2PH	_	PS80 ON : 2.7+0/-0.1MPa OFF : 1.9±0.15MPa			
	Pressure	switch (STD2	2)	S3PH		_			
	Fusible pl	lug		_	FPGH-3D 70 to 75°C				
	Pressure sensor (HP)			S1NPH	PS8050A 0 to 3.33MPa				
	Pressure sensor (LP)			S1NPL	PS8050A -0.05 to 0.98MPa				
Thermistor	INV PCB	For fin		R1T	3.5 to 360Ω				
	DCD -	For outdoor a		R1T		3.5 to 360Ω			
		For suction p	•	R2T		3.5 to 360Ω			
		For discharge (INV)	e pipe	R3T	3.5 to 400Ω	-	-		
	_	For discharge	e pipe	R31T R32T	_ _		400Ω 400Ω		
		(STD.1) For discharge pipe (STD.2) For heat exchanger For subcooling heat exchanger		R33T					
	I			R4T	3.5 to 360Ω 3.5 to 360Ω				
				R5T					
	<u> </u>	For receiver	iquid pipe	R6T	_	3.5 to	360Ω		
	l	For equalizin	· · · · ·	R7T	- 3.5 to 360Ω $-$ 3.5 to 360Ω				
Others	Fuse (A1	· · · · · · · · · · · · · · · · · · ·	- · ·	F1, 2U		250VAC 10A			
	Fuse (A4I	P)		F1U		250VAC 5A			

Item	Name			Symbol	Model				
пеш					RXY12MYL	RXY14MYL	RXY16MYL		
Compressor	Inverter		Type Output	M1C	JT1FBVDKTYR 4.2kW	JT1FBVDKTYR 2.0kW	JT1FBVDKTYR 3.0kW		
	STD.1		Type Output	M2C	JT170FBKYH 4.5kW	JT170FBKYH 4.5kW	JT170FBKYH 4.5kW		
	STD.2			МЗС	_	JT170FBKYH 4.5kW	JT170FBKYH 4.5kW		
	Crankca	se heater (INV		E1HC		200V 33W			
		se heater (STI	·	E2HC		200V 33W			
		se heater (STI		E3HC	_	1	33W		
		ection device f		_		13A			
Fan motor	Motor			M1F		0.75kw			
Functional parts	Electron	ic expansion	Cooling	Y1E		0pls			
	valve (M	ain)	Heating			PI control			
		ic expansion	Cooling	Y2E		PI control			
	valve (S	ubcool)	Heating			0pls			
	Solenoid	l valve (Hot ga	s)	Y1S		TEV1620DQ2			
		l valve (Extern		Y2S		TEV1620DQ2			
	charge)	I valve (Receiv	Ü	Y3S	TEV1620DQ2				
	Solenoid valve (Receiver gas discharge)			Y4S	VPV-603D				
	Solenoid valve (Non-operating unit gas discharge)			Y5S	TEV1620DQ2				
	Solenoid valve (Non-operating unit liquid pipe close)			Y6S		VPV-803DQ50			
	4 way va			Y7S	VHV0404 VT60100				
Pressure- related parts		switch (INV)	1	S1PH	PS80 ON: 2.7+0/-0.1MPa OFF: 1.9±0.15MPa				
rotatou parto		switch (STD1	,	S2PH	PS80 ON: 2.7+0/-0.1MPa OFF: 1.9±0.15MPa — PS80 ON: 2.7+0/-0.1MPa OFF: 1.9±0.15MPa				
	Pressure	e switch (STD2	2)	S3PH					
	Fusible p	olug		_	1	FPGH-3D 70 to 75°c	;		
	Pressure	e sensor (HP)		S1NPH	P	S8050A 0 to 3.33MF	'a		
	Pressure	e sensor (LP)		S1NPL	PS8	3050A -0.05 to 0.98N	/IPa		
Thermistor	INV PCB	For fin		R1T		3.5 to 360Ω			
	Main PCB	For outdoor a		R1T		3.5 to 360Ω			
	FUB	For suction p	•	R2T		3.5 to 360Ω			
		For discharge (INV)		R31T		3.5 to 400Ω			
	For discharge pipe (STD.1) For discharge pipe (STD.2)			R32T		3.5 to 400Ω			
			R33T	— 3.5 to 400Ω					
	For heat exchanger			R4T	3.5 to 360Ω				
		For subcoolir exchanger	•	R5T		3.5 to 360Ω 3.5 to 360Ω			
		For receiver		R6T					
		For equalizin	g pipe	R7T	3.5 to 360Ω				
Others	Fuse (A			F1, 2U	250VAC 10A				
	Fuse (A4	4P)		F1U		250VAC 5A			

3.1.3 RXY5~16MTL

Item	Name			Symbol	Model				
ileiii	ivanie			Зуппон	RXY5MTL	RXY8MTL	RXY10MTL		
Compressor	Inverter		Type Output	M1C	JT100FBVD 3.2kW	JT100FBVDKT 1.2kW	JT100FBVDK [*] 2.7kW		
	STD.1		Туре	M2C	_	JT170FBK 4.5kW	JT170FBK 4.5kW		
	STD.2		Output Type Output	МЗС		_			
	Crankcas	se heater (INV		E1HC		200V 33W			
		se heater (STI	,	E2HC	_	1	′ 33W		
	Crankcas	se heater (STI	D.2)	E3HC		_			
	OC prote- compress	ction device for	or STD	_	_	25	5A		
Fan motor	Motor			M1F	0.35kw		0kw		
Functional parts	Electronic valve (Ma	c expansion ain)	Cooling Heating	Y1E	2000pls	PI control	ols		
	Electronic	expansion	Cooling	Y2E	_	PI co	ontrol		
	valve (Su	ibcool)	Heating			Oį	ols		
	Solenoid	valve (Hot ga	s)	Y1S	TEV1620DQ2	VPV-	-603D		
	Solenoid	valve (Extern	al multi oil)	Y2S	_	TEV16	20DQ2		
	Solenoid charge)	valve (Receiv	er gas	Y3S	_	TEV16	20DQ2		
	Solenoid valve (Receiver gas discharge)			Y4S	_	VPV-603D			
				Y2S	TEV1620DQ2	_	_		
	Solenoid valve (Injection)			Y4S	TEV1620DQ2				
	Solenoid valve (Non-operating unit gas discharge)			Y5S	_	TEV16	20DQ2		
	Solenoid valve (Non-operating unit liquid pipe close)			Y6S	_	VPV-803DQ50			
	4 way val	4 way valve			VT3101C	_			
	_				_	VHV-0404			
Pressure- related parts	Pressure switch (INV)			S1PH	PS80 ON: 2.7+0/-0.1MPa OFF: 1.9±0.15MPa				
,	Pressure	switch (STD1)	S2PH	_	PS80 ON : 2.7+0/-0.1MPa OFF : 1.9±0.15MPa			
	Pressure	switch (STD2	2)	S3PH		_			
	Fusible p	lug		_	FPGH-3D 70 to 75°C				
	Pressure sensor (HP)			S1NPH	PS8050A 0 to 3.33MPa				
	Pressure sensor (LP)			S1NPL	PS8050A -0.05 to 0.98MPa				
Thermistor	INV PCB	For fin		R1T	3.5 to 360Ω				
	Main PCB	For outdoor a		R1T		3.5 to 360Ω			
		For suction p	•	R2T		3.5 to 360Ω			
		For discharge (INV)	e pipe	R3T	3.5 to 400Ω	-			
	<u> </u>	For discharge	e pipe	R31T R32T	_ _		400Ω 400Ω		
		(STD.1) For discharge pipe (STD.2) For heat exchanger For subcooling heat exchanger		R33T	_				
				R4T	3.5 to 360Ω 3.5 to 360Ω				
	<u> </u>			R5T					
		For receiver l	iguid nine	R6T	_	3.5 to	360Ω		
		For equalizin		R7T	_		360Ω		
Others	Fuse (A1	•	3 F F 7	F1, 2U		250VAC 10A	- 3		
Others	Fuse (A4			F1U		250VAC 5A			

Item		Name		Symbol		Model				
пеш		ivaine		Зуппон	RXY12MTL	RXY14MTL	RXY16MTL			
Compressor	Inverter		Type Output	M1C	JT100FBVDKT 4.2kW	JT100FBVDKT 2.0kW	JT100FBVDKT 3.0kW			
	STD.1		Type Output	M2C	JT170FBK 4.5kW	JT170FBK 4.5kW	JT170FBK 4.5kW			
	STD.2		Type Output	МЗС	_	JT170FBK 4.5kW	JT170FBK 4.5kW			
	Crankcas	se heater (INV		E1HC		200V 33W				
	Crankcas	se heater (STI) ().1)	E2HC		200V 33W				
	Crankcas	se heater (STI	0.2)	E3HC	_	200V	' 33W			
	OC prote	ection device f	or STD	_		25A				
Fan motor	Motor			M1F	0.80kw					
Functional parts	Electroni valve (Ma	c expansion	Cooling	Y1E	Opls Plant I					
	,		Heating		PI control					
	Electroni valve (Su	c expansion	Cooling	Y2E		PI control				
		·	Heating			0pls				
		valve (Hot ga	•	Y1S	VPV-603D		20DQ2			
		valve (Extern		Y2S		TEV1620DQ2				
	charge)	valve (Receiv	Ü	Y3S		TEV1620DQ2				
<u>c</u> §	discharge	,	J	Y4S	VPV-603D					
	unit gas	valve (Non-o _l discharge)	_	Y5S		TEV1620DQ2				
	unit liquid	valve (Non-o _l d pipe close)	perating	Y6S		VPV-803DQ50				
	4 way va			Y7S	VHV-0404 VT60100					
Pressure- related parts		switch (INV)		S1PH	PS80 ON: 2.7+0/-0.1MPa OFF: 1.9±0.15MPa PS80 ON: 2.7+0/-0.1MPa OFF: 1.9±0.15MPa					
related parts		switch (STD1	,	S2PH	PS80 ON: 2.7+0/-		0.15MPa			
	Pressure	switch (STD2	2)	S3PH	_	PS80 ON: 2.7+0/-0.1MP OFF: 1.9±0.15MP				
	Fusible p	lug		_		FPGH-3D 70 to 75°c)			
	Pressure	sensor (HP)		S1NPH	P	S8050A 0 to 3.33MF	Pa Pa			
		sensor (LP)		S1NPL	PS	3050A -0.05 to 0.98N	/IPa			
Thermistor	INV PCB	For fin		R1T		3.5 to 360Ω				
	Main PCB	For outdoor a		R1T		3.5 to 360Ω				
	FOB	For suction p	-	R2T		3.5 to 360Ω				
		For discharge (INV)		R31T		3.5 to 400Ω				
		For discharge (STD.1)		R32T		3.5 to 400Ω				
		For discharge (STD.2)		R33T	_		400Ω			
		For heat excl	ŭ	R4T		3.5 to 360Ω				
		For subcoolir exchanger	Ü	R5T		3.5 to 360Ω				
		For receiver		R6T						
		For equalizin	g pipe	R7T	3.5 to 360Ω					
Others	Fuse (A1			F1, 2U						
	Fuse (A4	P)		F1U		250VAC 5A				

3.1.4 RX5~16MY1

Item		Name		Symbol		Model	Γ		
nom		Name		Cymbol	RX5MY1	RX8MY1	RX10MY1		
Compressor	Inverter		Type Output	M1C	JT1FBVDKYR 3.2kW	JT1FBVDKTYR 1.2kW	JT1FBVDKTYR 2.7kW		
	STD.1		Type Output	M2C	_	JT170FBKYE 4.5kW	JT170FBKYE 4.5kW		
	STD.2		Type Output	МЗС		_			
	Crankca	se heater (INV		E1HC		240V 33W			
	Crankca	se heater (STI	D.1)	E2HC	_	240V	33W		
	Crankca	se heater (STI	D.2)	E3HC		_			
	OC prote	ection device f	or STD	_	_	10	3A		
Fan motor	Motor			M1F	0.35kw	0.7	5kw		
Functional parts	Electron valve (M	ic expansion lain)	Cooling Heating	Y1E	1400pls	Opls PI control			
	Electron valve (S	ic expansion ubcool)	Cooling Heating	Y2E	_		ontrol		
	Solenoic	d valve (Hot ga		Y1S	TEV1620DQ2		603D		
		d valve (Extern		Y2S	_		20DQ2		
	Solenoid	d valve (Receiv	,	Y3S	_	TEV16	20DQ2		
	charge)	•		Y2S	TEV1620DQ2	_	_		
	Solenoic discharg	d valve (Receiv je)	er gas	Y4S	_	VPV-	603D		
1	Solenoid	d valve (Injection	on)	Y4S	TEV1620DQ2				
	Solenoic unit gas	d valve (Non-o _l discharge)	perating	Y5S	_	TEV1620DQ2			
	Solenoic unit liqui	d valve (Non-o _l d pipe close)	valve (Non-operating pipe close)		_	VPV-803DQ50			
	4 way va			Y7S	_	_	_		
Pressure- related parts		e switch (INV)		S1PH	PS80 ON: 2.7+0/-	0.1MPa OFF : 1.9±	0.15MPa		
related parts	Pressure	e switch (STD1	1)	S2PH	_	PS80 ON: 2.7+0/-0.1MP OFF: 1.9±0.15MPa			
	Pressure	e switch (STD2	2)	S3PH		——————————————————————————————————————			
	Fusible	plug		_		FPGH-3D 70 to 75°C	;		
	Pressure	e sensor (HP)		S1NPH	Р	S8050A 0 to 3.33MF	^o a		
	Pressure	e sensor (LP)		S1NPL	PS	8050A -0.05 to 0.98N	/IPa		
Thermistor	INV PCB	For fin		R1T		3.5 to 360Ω			
	Main PCB	For outdoor a		R1T		3.5 to 360Ω			
	1 05	For suction p	•	R2T		3.5 to 360Ω			
		For discharge (INV)	e pipe	R3T	3.5 to 400Ω	-	4000		
			n nin a	R31T	_		400Ω 400Ω		
		For discharge (STD.1)		R32T	_	3.5 10	40052		
		For discharge (STD.2)		R33T					
		For heat excl		R4T		3.5 to 360Ω			
		For subcooling heat exchanger For receiver liquid pipe		R5T	T — 3.5 to 360Ω				
				R6T					
0.1		For equalizin	g pipe	R7T	— 3.5 to 360Ω				
Others	Fuse (A			F1, 2U		250VAC 10A			
	Fuse (A	4P)		F1U		250VAC 5A			

Item		Name		Symbol		Model	T			
Item		Name		Cyrribor	RX12MY1	RX14MY1	RX16MY1			
Compressor	Inverter		Type Output	M1C	JT1FBVDKTYR 4.2kW	JT1FBVDKTYR 2.0kW	JT1FBVDKTYR 3.0kW			
	STD.1		Type Output	M2C	JT170FBKYE 4.5kW	JT170FBKYE 4.5kW	JT170FBKYE 4.5kW			
	STD.2		Type Output	МЗС	_	JT170FBKYE 4.5kW	JT170FBKYE 4.5kW			
	Crankca	se heater (INV		E1HC		240V 33W				
		se heater (STI	,	E2HC		240V 33W				
		se heater (STI		E3HC	_	1	0V 33W			
		ection device f		_		13A				
Fan motor	Motor			M1F	0.75kw					
Functional parts	Electron	ic expansion	Cooling	Y1E	0pls					
	valve (M	ain)	Heating		PI control					
		ic expansion	Cooling	Y2E						
	valve (S	uɒco0I)	Heating			0pls				
	Solenoid	l valve (Hot ga	s)	Y1S	VPV-603D	TEV16	20DQ2			
		l valve (Extern		Y2S Y3S		TEV1620DQ2				
	Solenoid valve (Receiver gas charge) Solenoid valve (Receiver gas					TEV1620DQ2				
	discharg	e)	_	Y4S	VPV-603D					
	unit gas	l valve (Non-o _l discharge)	Ū	Y5S	TEV1620DQ2					
	unit liqui	l valve (Non-o _l d pipe close)	perating	Y6S		VPV-803DQ50				
	4 way va			Y7S	_					
Pressure- related parts		e switch (INV)		S1PH		0.1MPa OFF: 1.9±				
related parts		e switch (STD1	,	S2PH	PS80 ON: 2.7+0/-	0.1MPa OFF: 1.9±	0.15MPa			
	Pressure	e switch (STD2	2)	S3PH	_	PS80 ON: 2.7+0/-0.1MP OFF: 1.9±0.15MP				
	Fusible p	olug		_	1	FPGH-3D 70 to 75°c	;			
	Pressure	e sensor (HP)		S1NPH	P	S8050A 0 to 3.33MP	'a			
	Pressure	e sensor (LP)		S1NPL	PS8	3050A -0.05 to 0.98N	/IPa			
Thermistor	INV PCB	For fin		R1T		3.5 to 360Ω				
	Main PCB	For outdoor a		R1T		3.5 to 360Ω				
	ГСВ	For suction p	•	R2T		3.5 to 360Ω				
		For discharge (INV)		R31T		3.5 to 400Ω				
		For discharge (STD.1)		R32T		3.5 to 400Ω				
		For discharge (STD.2)		R33T	_		400Ω			
		For heat excl		R4T		3.5 to 360Ω				
		For subcoolir exchanger	· ·	R5T		3.5 to 360Ω				
	For receiver liquid pipe			R6T	3.5 to 360Ω					
		For equalizin	g pipe	R7T	3.5 to 360Ω					
Others	Fuse (A			F1, 2U	250VAC 10A					
	Fuse (A4	1P)		F1U		250VAC 5A				

3.2 Indoor Side

3.2.1 Indoor Unit

						Мо	del				
	Parts Name	Symbol	FXF25 LVE	FXF32 LVE	FXF40 LVE	FXF50 LVE	FXF63 LVE	FXF80 LVE	FXF100 LVE	FXF125 LVE	Remark
Remote	Wired Remote Controller					BRC	1A61				Option
Controller	Wireless Remote Controller				H/P E	RC7E61W	, C/O BRC	7E65			Option
	Fan Motor	M1F			DC380V	30W 8P			DC 380V	120W 8P	
Motors	Drain Pump	M1P		AC220-240V (50Hz) AC220V (60Hz) PLD-12230DM Thermal Fuse 145°C MP35HCA[3P007482-1]							
	Swing Motor	M1S	Thermal Fuse 145°C								
	Thermistor (Suction Air)	R1T			In PCB	A4P or wire	ed remote o	controller			
Thermistors	Thermistor (for Heat Exchanger High Temp.)	R3T				ST8605-5 20kΩ	φ8 L1000 (25°C)				
	Thermistor (Heat Exchanger)	R2T				ST8602A-5 20kΩ (
	Float Switch	S1L				FS-0	211B				
Others	Fuse	F1U	250V 5A φ5.2								
Others	Thermal Fuse	TFu	_								
	Transformer	T1R				_					

						Мо	del				
	Parts Name	Symbol	FXC 20LVE	FXC 25LVE	FXC 32LVE	FXC 40LVE	FXC 50LVE	FXC 63LVE	FXC 80LVE	FXC 125LVE	Remark
Remote	Wired Remote Controller					BRC	1A61				Option
Controller	Wireless Remote Controller				H/P	BRC7C62,	C/O BRC	7C67			Option
						AC 220~2	40V 50Hz				
	Fan Motor	M1F	1φ10W	1φ1	5W	1φ2	25W	1¢30W	1φ50W	1φ85W	
Mataua	T an Motor			Thermal Fuse 152°C — Thermal protector 135°C: OFF Thermal protector 130°C							
Motors	Drain Pump	M1P		AC220-240V (50Hz) AC220V (60Hz) PJV-1403 Thermal Fuse 169°C							
	Swing Motor	M1S				MT8-L[3P. AC200	A07509-1] ~240V				
	Thermistor (Suction Air)	R1T				ST8601-6 20kΩ	φ4 L1250 (25°C)				
Thermistors	Thermistor (for Heat Exchanger High Temp.)	R3T				ST8605-6 20kΩ	φ8 L1250 (25°C)				
	Thermistor (Heat Exchanger)	R2T	ST8602A-5 φ6 L1000 20kΩ (25°C)								
	Float Switch	S1L				FS-0	211B				
Others	Fuse	F1U	250V 5A φ5.2								
	Transformer	T1R				TR22l	H21R8				

				Mo	odel				
	Parts Name	Symbol	FXK 25LVE	FXK 32LVE	FXK 40LVE	FXK 63LVE	Remark		
Remote	Wired Remote Controller		25LVE 32LVE 40LVE 63LVE BRC1A61 H/P BRC4C61, C/O BRC4C63 AC 220~240V 50Hz 1φ15W 4P 1φ20W 4P 1φ45W 4P Thermal Fuse 146°C Thermal protector 120°C: OFF 105°C: ON AC 220-240V (50Hz)						
Controller	Wireless Remote Controller			H/P BRC4C61	, C/O BRC4C63				
				AC 220~2	240V 50Hz				
	Fan Motor	M1F	STR601-13 φ4 L630						
			Thermal F	use 146°C	Thermal protector 12	20°C:OFF 105°C: N			
Motors	Drain Pump	M1P		PLD-12	2200DM ´				
	Swing Motor	M1S							
	Thermistor (Suction Air)	R1T							
Thermistors	Thermistor (for Heat Exchanger High Temp.)	R3T							
	Thermistor (Heat Exchanger)	R2T		ST8602A- 20kΩ	7 φ6 L1600 (25°C)				
	Float Switch	S1L		FS-0)211B				
Others	Fuse	F1U		250V :	5Α φ5.2				
	Transformer	T1R	1φ15W 4P Thermal Fuse 146°C Thermal protector 120°C: OFF 105°C: ON AC 220-240V (50Hz) PLD-12200DM Thermal Fuse 145°C MP8-L [3PA07312-1] AC200~240V ST8601-13 φ4 L630 20kΩ (25°C) ST8605-7 φ8 L1600 20kΩ (25°C) ST8602A-7 φ6 L1600 20kΩ (25°C)						

					Мо	odel					
	Parts Name	Symbol	FXYD20 KAVE	FXYD25 KAVE	FXYD32 KAVE	FXYD40 KAVE	FXYD50 KAVE	FXYD63 KAVE	Remark		
Remote	Wired Remote Controller				BRC	1A62			Option		
Controller	Wireless Remote Controller			ŀ	H/P BRC4C62,	C/O BRC4C6	4		Option		
					AC 220~240V	/220V 50/60Hz					
Motors	Fan Motor	M1F		1φ45W 1φ65W							
			Thermal Protector 135°C ST8601-2 \(\pm \)4 L400								
	Thermistor (Suction Air)	R1T				2 φ4 L400 (25°C)					
Thermistors	Thermistor (for Heat Exchanger High Temp.)	R3T				2 φ8 L400 (25°C)					
	Thermistor (Heat Exchanger)	R2T				2 φ6 L400 (25°C)					
	Float Switch	33H	FS-0211								
Others	Fuse	F1U	250V 10A								
	Transformer	T1R			TR22N	M21R8					

							Model					
	Parts Name	Symbol	FXS 20LVE	FXS 25LVE	FXS 32LVE	FXS 40LVE	FXS 50LVE	FXS 63LVE	FXS 80LVE	FXS 100LVE	FXS 125LVE	Remark
Remote	Wired Remote Controller						BRC1A62	2				Ontion
Controller	Wireless Remote Controller				ŀ	H/P BRC4	C62, C/O	BRC4C6	4			Option
						AC 2	20~240V	50Hz				
	Fan Motor	M1F		1φ50W		1φ65W	1φ85W	1¢125 W		1¢225W		
Motors			Thermal Fuse 152°C Thermal protector 135°C: OFF 87°C: ON									
	Drain Pump	M1P	AC220-240V (50Hz)									
	Thermistor (Suction Air)	R1T					601-4 φ4 I 0kΩ (25°0					
Thermistors	Thermistor (for Heat Exchanger High Temp.)	R3T					605-7 φ8 L 0kΩ (25°0					
	Thermistor (Heat Exchanger)	R2T					02A-6 φ6 0kΩ (25°0					
	Float Switch	S1L	FS-0211B									
Others	Fuse	F1U	250V 5A φ5.2									
	Transformer	T1R				Т	R22H21F	18				

							Model					
	Parts Name	Symbol	FXYB 20KV1	FXYB 25KV1	FXYB 32KV1	FXYB 40KV1	FXYB 50KV1	FXYB 63KV1	FXYB 80KV1	FXYB 100KV1	FXYB 125KV1	Remark
Remote	Wired Remote Controller						BRC1A62	2				Option
Controller	Wireless Remote Controller				ŀ	H/P BRC4	C62, C/O	BRC4C6	4			Option
						AC 2	20~240V	50Hz				
	Fan Motor	M1F		1φ50W		1φ65W	1φ85W	1φ125W	1φ1	35W	1¢225W	
Motors				Thermal Fuse 152°C AC220-240V								
	Motor for Drain Pump	M1P		AC220-240V Thermal Fuse 169°C								
	Thermistor (Suction Air)	R1T					601-4 φ4 I 0kΩ (25°0					
Thermistors	Thermistor (for Heat Exchanger High Temp.)	R3T					605-7 φ8 L 0kΩ (25°0					
	Thermistor (Heat Exchanger)	R2T					602-6 φ6 L 0kΩ (25°0					
	Float Switch	33H		FS-0211								
Others	Fuse	F1U				25	0V 10A φ	5.2				
	Transformer	T1R				Т	R22M21F	88				

						Mo	del				
	Parts Name	Symbol	FXM 40LVE	FXM 50LVE	FXM 63LVE	FXM 80LVE	FXM 100LVE	FXM 125LVE	FXM 200LVE	FXM 250LVE	Remark
Remote	Wired Remote Controller					BRC	1A62				Ontion
Controller	Wireless Remote Controller				H/P	BRC4C62,	C/O BRC	1C64			Option
						AC 220~2	40V 50Hz				
	Fan Motor	M1F		1\(\phi\)100W							
Motors				Thermal protector 135°C : OFF 87°C : ON							
	Capacitor for Fan Motor	C1R									
	Thermistor (Suction Air)	R1T				5 φ4 L1000 (25°C)				1A-13 .630	
Thermistors	Thermistor (for Heat Exchanger High Temp.)	R3T				-4 φ8 L800 (25°C)				05A-5 1000	
	Thermistor (Heat Exchanger)	R2T				-4 φ6 L800 (25°C)				02A-6 1250	
	Float switch	S1L		OPT10N							
Others	Fuse	F1U	250V 10A φ5.2								
	Transformer	T1R				TR22l	H21R8				

				Model					
	Parts Name	Symbol	FXH 32LVE	FXH 63LVE	FXH 100LVE	Remark			
Remote Controller	Wired Remote Controller			BRC1A61		Option			
Controller	Wireless Controller		Н	I/P BRC7E63W, C/O BRC7E6	66				
			A	AC 220~240V/220V 50Hz/60H	lz				
	Fan Motor	M1F	1φ63W 1φ130W Thermal protector 130°C : OFF 80°C : ON						
Motors			Therma	al protector 130°C : OFF 80	°C : ON				
WIOTOIS	Capacitor for Fan Motor	C1R	3.0μF	-400V	9.0μF-400V				
	Swing Motor	M1S		MT8-L[3P058751-1] AC200~240V					
	Thermistor (Suction Air)	R1T		ST8601A-1 φ4 L250 20kΩ (25°C)					
Thermistors	Thermistor (for Heat Exchanger High Temp.)	R3T		ST8605-6 φ8 L = 1250 20kΩ (25°C)					
	Thermistor (Heat Exchanger)	R2T		ST8602A-6 φ6 L = 1250 20kΩ (25°C)					
Others	Fuse	F1U	250V 5A φ5.2						
Others	Transformer	T1R		TR22H21R8					

					Mo	odel				
	Parts Name	Symbol	FXA 20LVE	FXA 25LVE	FXA 32LVE	FXA 40LVE	FXA 50LVE	FXA 63LVE	Remark	
Remote	Wired Remote Controller				BRC	1A61			Option	
Controller	Wireless Remote Controller			Н	/P BRC7E618,	, C/O BRC7E6	19		Option	
					AC 220~2	240V 50Hz				
	Fan Motor	M1F		1φ40W 1φ43W						
Motors					_	. —				
	Swing Motor	M1S	— MP24[3SB40333-1] MSFBC20C21 [3SB40550-1] AC200~240V AC200~240V							
	Thermistor (Suction Air)	R1T				2 φ4 L400 (25°C)				
Thermistors	Thermistor (for Heat Exchanger High Temp.)	R3T				2 φ8 L400 (25°C)				
	Thermistor (for Heat Exchanger)	R2T		ST8602-2 φ6 L400 20kΩ (25°C)						
Others	Float Switch	S1L	OPTION							
Olibis	Fuse	F1U			250V 5	5A φ5.2				

					Мо	del				
	Parts Name	Symbol	FXL 20LVE	FXL 25LVE	FXL 32LVE	FXL 40LVE	FXL 50LVE	FXL 63LVE	Remark	
Remote	Wired Remote Controller			BRC1A62						
Controller	Wireless Remote Controller			H/P BRC4C62, C/O BRC4C64						
					AC 220~2	40V 50Hz				
Motors	Fan Motor	M1F	1φ15W		1φ25W		1φ35W			
IVIOLOIS			Thermal protector 135°C : OFF 120°C : ON							
	Capacitor for Fan Motor	C1R	1.0μF-400V		0.5μF-400V	1.0μF-400V	1.5μF-400V	2.0μF-400V		
	Thermistor (Suction Air)	R1T		ST8601-6 φ4 L1250 20kΩ (25°C)						
Thermistors	Thermistor (for Heat Exchanger High Temp.)	R3T	ST8605-9 φ8 L2500 20kΩ (25°C)							
	Thermistor (for Heat Exchanger)	R2T			ST8602A-9 φ6 L2500 20kΩ (25°C)					
Others	Fuse	F1U			AC250V 10A					
Olliels	Transformer	T1R	•		TR22H21R8					

					Mo	del						
	Parts Name	Symbol	FXN 20LVE	FXN 25LVE	FXN 32LVE	FXN 40LVE	FXN 50LVE	FXN 63LVE	Remark			
Remote	Wired Remote Controller			BRC1A62								
Controller	Wireless Remote Controller			H/P BRC4C62, C/O BRC4C64								
				AC 220~240V 50Hz								
Motors	Fan Motor	M1F	1φ15W		1φ25W		1¢35W					
IVIOLOIS			Thermal protector 135°C : OFF 120°C : ON									
	Capacitor for Fan Motor	C1R	1.0μF-400V		0.5μF-400V	1.0μF-400V	1.5μF-400V	2.0μF-400V				
	Thermistor (Suction Air)	R1T		ST8601-6 φ4 L1250 20kΩ (25°C)								
Thermistors	Thermistor (for Heat Exchanger High Temp.)	R3T	ST8605-9 φ8 L2500 20kΩ (25°C)									
	Thermistor (for Heat Exchanger)	R2T			ST8602A-9 φ6 L2500 20kΩ (25°C)							
Others	Fuse	F1U			AC250V 10A							
Others	Transformer	T1R		•	TR22H21R8							

Si38-304 Option List

4. Option List

4.1 Option List of Controllers

Operation Control System Optional Accessories

No.	Item		Туре	FXC-L	FXF-L	FXK-L	FXYD-KA	FXS-L	FXYB-K	FXM-L	FXH-L	FXA-L	FXL-L FXN-L
		Wireless	H/P	BRC7C62	BRC7E61W	BRC4C61	BRC4C62				BRC7E63W	BRC7E618	BRC4C62
1	Remote controller	wireless	C/O	BRC7C67	BRC7E65	BRC4C63		BRC	4C64		BRC7E66	BRC7E619	BRC4C64
		Wire	b		BRC1A61			BRC	1A62		BRC	1A61	BRC1A62
2	Set back	time clock						BRC1	5A61				
3	Simplifie controlle	d remote r			_			BRC	2A51		-	_	BRC2A51
4	Remote hotel use	controller fo	or		_			BRC	3A61		-	_	BRC3A61
5	Adaptor	for wiring		★KRP1B61	★KRP1B59			KRP1B61			KRP1B3	_	KRP1B61
6-1	Wiring a	daptor for appendice	es (1)	★KRP2A61	★KRP2A62			KRP2A61			★KRP2A62	★KRP2A61	KRP2A61
6-2	Wiring a	daptor for appendice	es (2)	★KRP4A51	★KRP4A53		KRP4A51					★KRP4A51	KRP4A51
7	Remote	sensor		KRCS01-1	_				KRCS	301-1			
8	Installation	on box for PCB		Note 2, 3 KRP1B96	Note 2, 3 KRP1D98	_	Note 4 KRP1B100	Note 4 KRP4A91	_	_	Note 3 KRP1C93	Note 2, 3 KRP4A93	_
9	Central r	emote cont	roller					DCS3	02B61				
9-1		l box with e (3 blocks)	arth					KJB:	311A				
10	Unified o	n/off contro	oller					DCS3	01B61				
10-1		l box with e (2 blocks)	arth		KJB212A								
10-2	Noise filte electroma use only)	agnetic inte	rface		KEK26-1								
11	Schedule	e timer						DST3	01B61		•	•	
12	for outdo	control ada or unit (Mu on indoor u	st be	★ DTA104A61	★ DTA104A62		DT440404 *				★ DTA104A62	★ DTA104A61	DTA104A61

Note

- 1. Installation box (No.8) is necessary for each adaptor marked H.
- 2. Up to 2 adaptors can be fixed for each installation box.
- 3. Only one installation box can be installed for each indoor unit.
- 4. Installation box (No. 8) is necessary for second adaptor.

Various PC Boards

No.	Part name	Model No.	Function					
1	Adaptor for wiring	KRP1B61 KRP1B59 KRP1B3	■ PC board when equipped with auxiliary electric heater in the indoor unit.					
2	DIII-NET Expander Adaptor	DTA109A51	 Up to 1024 units can be centrally controlled in 64 different groups. Wiring restrictions (max. length: 1000m, total wiring length: 2000m, max. number of branches: 16) apply to each adaptor. 					

System Configuration

No.	Part name	Model No.	Function					
1	Central remote controller	DCS302B61	■ Up to 64 groups of indoor units (128 units)can be connected, and ON/OFF, temperature setting and monitoring can be accomplished individually or simultaneously. Connectable up to "2" controllers in one system.					
2	Unified ON/OFF controller	DCS301B61	■ Up to 16 groups of indoor units (128 units) can be turned, ON/OFF individually or simultaneously, and operation and malfunction can be displayed. Can be used in combination with up to 8 controllers.					
3	Schedule timer	DST301B61	■ Programmed time weekly schedule can be controlled by unified control for up to 64 groups of indoor units (128 units). Can turn units ON/OFF twice per day.					
4	Unification adaptor for computerized control	★ DCS302A52	■ Interface between the central monitoring board and central control units					
5	Interface adaptor for SkyAir-series	★ DTA102A52	■ Adaptors required to connect products other than those of the VRV System to the high-					
6	Central control adaptor kit	★ DTA107A55	speed DIII-NET communication system adopted for the VRV System. To use any of the above optional controllers, an appropriate adaptor must be installed on					
7	Wiring adaptor for other air-conditioner	★ DTA103A51	the product unit to be controlled.					
8	DIII-NET Expander adaptor	DTA109A51	 Up to 1,024 units can be centrally controlled in 64 different groups. Wiring restrictions (max. length: 1,000m, total wiring length: 2,000m, max. number of branches: 16) apply to each adaptor. 					
9	Mounting plate	KRP4A92	■ Fixing plate for DTA109A51					

Note

Installation box for H adaptor must be procured on site.

Option List Si38-304

Building management system

No.		Pai	rt name		Model No.	Function				
				Without PPD	DCS601B51	Air-Conditioning management system that can be controlled by a compact all-in-one unit.				
1	3		t Touch Controller With PPD				DCS601B51 DCS002B51	PPD: Power Proportional Distribution function New Functions: • Auto cool/heat change-over •Temperature limitation • Multilingual (English, French, German, Spanish, Italian, or Chinese)		
1-1	Electrica	l box with e	arth termina	l (4blocks)	KJB411A	■ Wall embedded switch box.				
				128 units	DAM602A52					
				192 units	DAM602A53					
2	intelligen	t Manager	Number of units to be	256 units	DAM602A51	Air conditioner management system (featuring minimized engineering)				
2	ECO 21	ŭ	connected	512 units	DAM602A51x2	that can be controlled by personal computers.				
				768 units	DAM602A51x3					
				1024 units	DAM602A51x4					
3		BACnet Gateway			DMS502A51	Interface unit to allow communications between VRV and BMS. Operation and monitoring of air-conditioning systems through BACnet communications.				
4	cation	DMS-IF (for use in Lon Works [®] networks)		DMS-IF (for use in Lon Works [®] networks)				Interface unit to allow communications between VRV and BMS. Operation and monitoring of air-conditioning systems through Lon Works® communication.		
5	Communication Line	Optional D	III board		DAM411A1	Expansion kit, installed on the BACnet Gateway (DMS502A51), to provide 3 more DIII-NET communication ports. Not usable independently.				
6	0	Optional Di board		Optional Di board					DAM412A1	Expansion kit, installed on the BACnet Gateway (DMS502A51), to provide 16 more wattmeter pulse input points. Not usable independently.
7		Optional D	III Ai unit		DAM101A51	Analog input for "sliding temperature" function (to reduce cold shock).				
8		lel .ce	Basic unit		DPF201A51	■ Enables ON/OFF command, operation and display of malfunction; can be used in combination with up to 4 units.				
9	nal	Parallel interface	Temperature measuremen		DPF201A52	■ Enables temperature measurement output for 4 groups; 0-5VDC.				
10	gis (Temperature	setting units	DPF201A53	■ Enables temperature setting input for 16 groups; 0-5VDC.				
11	analoç	Unification adaptor for computerized control		nputerized	DCS302A52	■ Interface between the central monitoring board and central control units				
12-1	Contact∕analog signal	Wiring adaptor for electrical appendices (1)		KRP2A61, 62	Simultaneously controls air-conditioning control computer and up to 64 groups of indoor units.					
12-2	ဝိ	Wiring adaptor for electrical appendices (2)		al	KRP4A51-53	■ To control the group of indoor units collectively, which are connected by the transmission wiring of remote controller.				
13			ntrol adaptor fo e installed on		DTA104A61, 62	Cooling/Heating mode change over. Demand control and Low noise control are available between the plural outdoor units.				

^{*} LonWorks[®] is a registered trade mark of Echelon Corporation.

Si38-304 Option List

4.2 Option Lists (Outdoor Unit)

RXY5 ~ 16MY1, YL, TL (E), RX5 ~ 10MY1 (E)

Optional accessories		RXY5MY1, YL, TL RXY5MY1E, YLE, TLE RX5MY1		RXY8MY1, YL, TL RXY10MY1, YL, TL RX8MY1 RX10MY1	RXY8MY1E, YLE, TLE RXY10MY1E, YLE, TLE RX8MY1E RX10MY1E	RXY12MY1, YL, TL RXY14MY1, YL, TL RXY16MY1, YL, TL RX12MY1 RX14MY1 RX16MY1	RXY12MY1E, YLE, TLE RXY14MY1E, YLE, TLE RXY16MY1E, YLE, TLE RX12MY1E RX14MY1E RX16MY1E	
Cool/	Heat Selector			KRC19-26A (F	or Heat Pump)			
Fixing	g box			KJB ⁻	111A			
Distributive Piping Refnet header			KHRJ26K17H (MAX. 8 branch)	(MAX. 4 branch) KHRJ26K18H,	KHRJ26K17H (MAX. 8 branch) KHRJ26K37H (MAX. 8 branch)	(MAX. 4 branch) KHRJ2 (MAX. 6	ÈK18H branch) KHRJ26K40H	
Refnet joint		KHRJ26K11T,	KHRJ26K17T		, KHRJ26K17T , KHRJ26K37T	KHRJ26K11T, KHRJ26K18T, KHRJ2	KHRJ26K37T,	
Pipe size reducer			=	-		KHRJ26K40TP, KHRJ26K40HP		
Central drain pan kit		KWC26B160	KWC26B160E	KWC26B280	KWC26B280E	KWC26B450	KWC26B450E	

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RXY18 ~ 32MY1, YL, TL (E), RX18 ~ 32MY1 (E)

		RXY18MY1, YL, TL RXY20MY1, YL, TL RX18MY1 RX20MY1		RXY22MY1, YL, TL RX22MY1				RXY28MY1, YL, TL RXY30MY1, YL, TL RXY32MY1, YL, TL RX28MY1 RX30MY1 RX32MY1	RXY30MY1E, YLE, TLE			
Cool/l	Heat Selector				KRC19-26A (F	or Heat Pump)						
Fixing	box		KJB111A									
ve	Refnet header		KHRJ26K11H, KHRJ26K17H, KHRJ26K18H, KHRJ26K37H, KHRJ26K40H (MAX. 4 branch) (MAX. 8 branch) (MAX. 6 branch) (MAX. 8 branch)									
Distributive Piping	Refnet joint	KHRJ26K11T	KHRJ26K11T, KHRJ26K17T, KHRJ26K18T, KHRJ26K37T, KHRJ26K11T, KHRJ26K17T, KHRJ26K18T, KHRJ26K KHRJ26K40T, KHRJ26K75T									
	Outdoor unit multi connection piping kit	BHF22M90										
Pipe size reducer			KHRJ26K40TP,	KHRJ26K40HP		KHRJ26	K40TP, KHRJ2	6K75TP, KHRJ26	6K40HP			
Central drain pan kit		KWC26B280×2	KWC26B280E×2	KWC26B280 KWC26B450	KWC26B280E KWC26B450E	KWC26B280 KWC26B450	KWC26B280E KWC26B450E	KWC26B450×2	KWC26B450E×2			
									3D039851			

3D039851 3D041583

RXY34 ~ 48MY1, YL, TL (E), RX34 ~ 48MY1 (E)

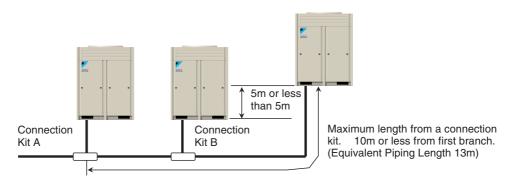
Optional accessories		RXY34MY1, YL, TL RX34MY1	RXY34MY1E, YLE, TLE RX34MY1E	RXY36MY1, YL, TL RX36MY1	DVV26MV1E	RXY38MY1, YL, TL RXY40MY1, YL, TL RXY42MY1, YL, TL RX38MY1 RX40MY1 RX42MY1	RXY38MY1E, YLE, TLE RXY40MY1E, YLE, TLE RXY42MY1E, YLE, TLE RX38MY1E RX40MY1E RX42MY1E	RXY46MY1, YL, TL	RXY46MY1E, YLE, TLE			
Cool/l	Heat Selector				KRC19-26A (F	For Heat Pump)						
Fixing	g box	KJB111A										
tive	Refnet header	KHRJ26K11H, KHRJ26K17H, KHRJ26K18H, KHRJ26K37H, KHRJ26K40H (MAX. 4 branch) (MAX. 8 branch) (MAX. 6 branch) (MAX. 8 branch)										
ribu	Refnet joint		KHRJ26K11T, KHRJ26K17T, KHRJ26K18T, KHRJ26K37T, KHRJ26K40T, KHRJ26K75T									
Refnet header (MAX. 4 branch) (MAX. 8 branch) (MAX. 6 branch) (MAX. 8 branch)												
Pipe size reducer		KHRJ26K40TP, KHRJ26			KHRJ26K40TP,	KHRJ26K75TP,	KHRJ26K76TP,	KHRJ26K40HP				
Central drain pan kit		KWC26B280×2 KWC26B450	KWC26B280E×2 KWC26B450E	KWC26B280×2 KWC26B450	KWC26B280E×2 KWC26B450E	KWC26B280 KWC26B450×2	KWC26B280E KWC26B450E×2	KWC26B450×3	KWC26B450Ex3			

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Si38-304 **Piping Installation Point**

Piping Installation Point

Piping Installation Point 5.1



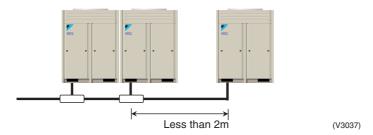
Since there is a possibility that oil may be collect on a stop machine side, install piping between outdoor units to go to level or go up to an outdoor unit, and to make a slope.

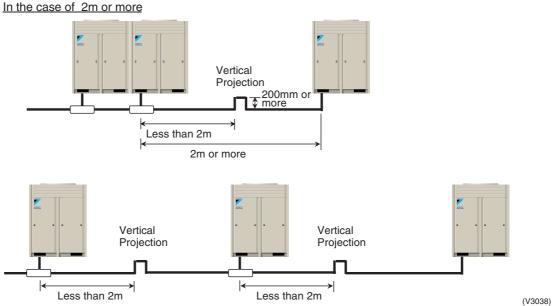
(V3036)

The projection part between multi connection piping kits

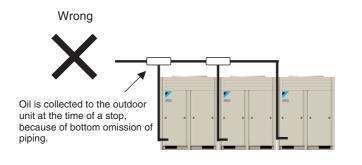
When the piping length between the multi connection kits or between multi connection kit and outdoor unit is 2m or more, prepare a vertical projection part (200mm or more as shown below) only on the gas pipe line location less than 2m from multi connection kit.

In the case of 2m or less

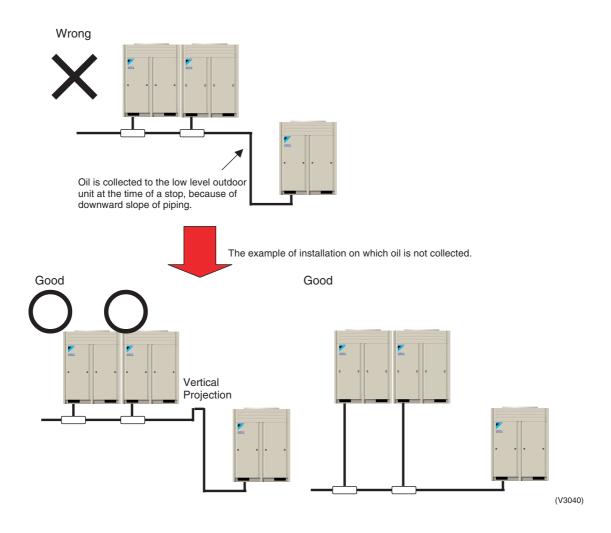




5.2 The Example of A Wrong Pattern



(V3039)



	Outdoor Unit - Multi Connection Piping Kit	Actual piping length 10m or less, equivalent length 13m or less	
Max.allowable Piping Length	Multi Connection Piping Kit - Indoor Unit	Actual piping length 150m or less, equivalent length 175m or less, the total extension 300m or less	
	REFNET Joint - Indoor Unit	Actual piping length 40m or less	
	Outdoor Unit - Outdoor Unit	5m or less	
Allowable Level Difference	Outdoor Unit - Indoor Unit	50m or less (when an outdoor unit is lower than indoor units : 40m or less)	
	Indoor Unit - Indoor Unit	15m or less	

6. Selection of Pipe Size, Joints and Header

6.1 RXY5MY1, RXY8MY1, RXY10MY1, RXY12MY1, RXY14MY1, RXY16MY1

6.1.1 How to select the REFNET Joint

How to select the REFNET Joint

Select the REFNET Joint from the following table when using REFNET Joints at the first branch counted from the outdoor unit side.

(Ex.: REFNET Joint A)

Outdoor Unit	REFNET Joints (Kit Name)	
RXY5MY1	KHRJ26K18T	
RXY8,10MY1	KHRJ26K37T	
RXY12-16MY1	KHRJ26K40T+KHRJ26K40TP (Pipe Size Reducer)	

For REFNET Joints other than the first branch, select the proper ones based on the total capacity index of the indoor units installed after the first branch using the following table:

Total capacity index of indoor units	REFNET Joints (Kit Name)	
<100	KHRJ26K11T	
100≤x<160	KHRJ26K18T	
160≤x<330	KHRJ26K37T	
330≤x<640	KHRJ26K40T+KHRJ26K40TP (Pipe Size Reducer)	
640≤x<900	KHRJ26K75T+KHRJ26K75TP (Pipe Size Reducer)	

6.1.2 How to select pipe size

Between outdoor unit and uppermost stream REFNET Joint.

Pipe size connected to outdoor unit.

Outdoor Unit	Gas	Liquid
RXY5M	φ19.1	ф9.5
RXY8, 10MY1	ф28.6	φ12.7
RXY12-16MY1	ф34.9	φ15.9

Piping Material

Select the piping material to be used from the next table according to piping size.

Piping Size (O / D)	Temper grade of Material	
φ19.1 or less	0	
φ22.2 or more 1 / 2H or H		

6.1.3 How to select the REFNET header

Select the proper REFNET Header using the following table based on the total capacity index of indoor units installed after the header.

Total capacity index of indoor units	REFNET Header (Kit Name)	
<100	KHRJ26K11H	
100≤x<160	KHRJ26K18H	
160≤x<330	KHRJ26K37H	
330≤x<640	KHRJ26K40H+KHRJ26K40HP (Pipe Size Reducer)	

6.1.4 Piping between the REFNET Joints

Select the proper pipe size using the following table based on the total capacity index of indoor units connected downstream.

Connection piping size should not exceed the refrigerant piping size selected by "the model with combination units".

Total capacity index	Liquid	Gas
<100	φ9.5	φ15.9
100≤x<160	φ9.5	φ19.1
160≤x<330	φ12.7	φ25.4
330≤x<480	φ15.9	ф34.9
480≤x<640	φ19.1	ф34.9
≥640	φ19.1	φ41.3

6.1.5 Piping between the REFNET Joints and indoor unit

Pipe size for direct connection to indoor unit must be the same as the connection size of indoor unit.

Connection pipe size of indoor unit.

Total capacity index	Liquid	Gas
20, 25, 32, 40	φ6.4	φ12.7
50, 63, 80	φ9.5	φ15.9
100, 125	φ9.5	φ19.1
200	φ12.7	φ25.4
250	φ12.7	φ28.6

6.1.6 The piping minimum thickness

* Select the wall thickness in accordance with revelant local and national regulations.

	R22		
Size	Material	Minimum thickness t (mm)	
φ6.4	0	0.8	
φ9.5	0	0.8	
φ12.7	0	0.8	
φ15.9	0	1.0	
φ19.1	0	1.0	
ф22.2	1/2H	1.0	
φ25.4	1/2H	1.2	
ф28.6	1/2H	1.2	
ф34.9	1/2H	1.3	
ф41.3	1/2H	1.7	
φ54.1	1/2H	1.7	

6.2 RXY18MY1, RXY20MY1, RXY22MY1, RXY24MY1, RXY26MY1, RXY28MY1, RXY30MY1, RXY32MY1, RXY34MY1, RXY36MY1, RXY38MY1, RXY40MY1, RXY42MY1, RXY44MY1, RXY46MY1, RXY48MY1

6.2.1 How to select the REFNET Joint

How to select the REFNET Joint

Select the REFNET Joint from the following table. When using REFNET Joints at the first branch counted from the outdoor unit side.

(Ex.: REFNET Joint A)

Outdoor Unit	REFNET Joint(Kit Name)	
RXY18-24MY1	KHRJ26K40T+KHRJ26K40TP (Pipe Size Reducer)	
RXY26-34MY1	KHRJ26K75T+KHRJ26K75TP (Pipe Size Reducer)	
RXY36-48MY1	KHRJ26K75T+KHRJ26K76TP (Pipe Size Reducer)	

For REFNET Joints other than the first branch, select the proper ones based on the total capacity index of the indoor units installed after the first branch using the following table:

Total capacity index of indoor units	REFNET Joints (Kit Name)
<100	KHRJ26K11T
100≤x<160	KHRJ26K18T
160≤x<330	KHRJ26K37T
330≤x<640	KHRJ26K40T+KHRJ26K40TP (Pipe Size Reducer)
640≤x<900	KHRJ26K75T+KHRJ26K75TP (Pipe Size Reducer)
≥900	KHRJ26K75T+KHRJ26K76TP (Pipe Size Reducer)

6.2.2 How to select pipe size

Main Piping (Between Multi connection piping kit and REFNET Joint) Select the proper ones based on the following table :

Outdoor Unit	Gas	Liquid
RXY18MY1	φ34.9	φ19.1
RXY20MY1		
RXY22MY1		
RXY24MY1	φ41.3	
RXY26MY1		ф22.2
RXY28MY1		
RXY30MY1		
RXY32MY1		
RXY34MY1		
RXY36MY1	φ54.1	
RXY38MY1		
RXY40MY1		
RXY42MY1		
RXY44MY1		
RXY46MY1		
RXY48MY1		

Piping Material

Select the piping material to be used from the next table according to piping size.

Piping Size (O / D)	Temper grade of Material
φ19.1 or less	0
φ22.2 or more	1 / 2H or H

6.2.3 How to select the REFNET header

Select the proper branch kit model based on the total capacity index of indoor units installed after the header using the following table.

Total capacity index	REFNET Header (Kit Name)
<100	KHRJ26K11H
100≤x<160	KHRJ26K18H
160≤x<330	KHRJ26K37H
330≤x<640	KHRJ26K40H+KHRJ26K40HP (Pipe Size Reducer)

Branching is impossible between refnet header and indoor unit.

6.2.4 Piping between the REFNET Joints.

Select the proper pipe size using the following table based on the total capacity index of indoor units connected downstream.

Connection piping size should be larger than main piping size.

Connection piping size should not exceed the refrigerant piping size selected <u>by</u> "the model with combination units".

Total capacity index	Liquid	Gas
<100	ф9.5	φ15.9
100≤x<160	φ9.5	φ19.1
160≤x<330	φ12.7	ф25.4
330≤x<480	φ15.9	ф34.9
480≤x<640	φ19.1	ф34.9
640≤x<880	φ19.1	ф41.3
≥900	φ22.2	ф54.1

6.2.5 Piping between the multi connection piping kit

Select the proper pipe size using the following table based on the total capacity index of outdoor units connected upper stream.

Total capacity index of outdoor units connected to upper stream	Gas	Liquid	Oil
Less than RXY22MY1	ф34.9	φ19.1	
RXY24MY1		φ19.1	φ6.4
RXY26MY1 or more~ Less than RXY32MY1	φ41.3	ф22.2	Ψ3.1

6.2.6 Outdoor Unit Multi Connection Piping Kit

Select the piping kit according to the No. of outdoor units

No. of outdoor units	Multi Connection Piping Kit
2 units	BHF22M90
3 units	BHF22M135

6.2.7 Piping between the REFNET Joints and indoor unit

Pipe size for direct connection to indoor unit must be the same as the connection size of indoor unit.

Connection pipe size of indoor unit.

Total capacity index	Liquid	Gas
20, 25, 32, 40	φ6.4	φ12.7
50, 63, 80	φ9.5	φ15.9
100, 125	φ9.5	φ19.1
200	φ12.7	ф25.4
250	φ12.7	ф28.6

[·]For systems with a total capacity of 640 and over, connect a refnet joint branch.

6.2.8 Piping between outdoor Unit and Multi Connection Piping Kit

Pipe size for direct connection to outdoor unit must be the same as the connection size of outdoor unit.

Outdoor Units	Gas	Liquid	Oil
RXY8, 10MY1	φ28.6	φ12.7	ф С 4
RXY12-16MY1	φ34.9	φ15.9	ф6.4

6.2.9 The piping minimum thickness

* Select the wall thickness in accordance with revelant local and national regulations.

		R22
Size	Material	Minimum thickness t (mm)
φ6.4	0	0.8
φ9.5	0	0.8
φ12.7	0	0.8
φ15.9	0	1.0
φ19.1	0	1.0
ф22.2	1/2H	1.0
ф25.4	1/2H	1.2
ф28.6	1/2H	1.2
ф34.9	1/2H	1.3
φ41.3	1/2H	1.7
φ54.1	1/2H	1.7

7. Thermistor Resistance / Temperature Characteristics

Indoor unit For air suction R1T

For liquid pipe R2T For gas pipe R3T

Outdoor unit For outdoor air R1T

For coil R2T
For suction pipe R4T
For Receiver gas pipe R5T
For oil R7T

(kΩ)

15.76 15.10

14.48 13.88

13.31

12.77 12.25 11.76 11.29 10.84 10.41 10.00 9.61 9.24 8.88 8.54 8.21 7.90 7.60 7.31 7.04 6.78 6.53 6.53 6.53 6.53 6.06 5.84 5.43 5.05 4.87 4.70 4.54 4.38 4.23 4.08 3.94 3.81 3.68 3.56 3.44 3.32 3.21 3.11 3.01 2.91 2.82 2.72 2.64 2.55 2.47

T.0		0.5	1	T.0	
T°C	0.0	0.5		T°C	0.0
-20	197.81	192.08		30	16.10
-19	186.53	181.16		31	15.43
-18	175.97	170.94		32	14.79
-17	166.07	161.36		33	14.18
-16	156.80	152.38		34	13.59
-15	148.10	143.96		35	13.04
-14	139.94	136.05		36	12.51
-13	132.28	128.63		37	12.01
-12	125.09	121.66		38	11.52
-11	118.34	115.12		39	11.06
-10	111.99	108.96		40	10.63
-9	106.03	103.18		41	10.21
-8	100.41	97.73		42	9.81
-7	95.14	92.61		43	9.42
-6	90.17	87.79		44	9.06
-5	85.49	83.25		45	8.71
-4	81.08	78.97		46	8.37
-3	76.93	74.94		47	8.05
-2	73.01	71.14		48	7.75
-1	69.32	67.56		49	7.46
0	65.84	64.17		50	7.18
1	62.54	60.96		51	6.91
2	59.43	57.94		52	6.65
3	56.49	55.08		53	6.41
4	53.71	52.38		54	6.65
5	51.09	49.83		55	6.41
6	48.61	47.42		56	6.18
7	46.26	45.14		57	5.95
8	44.05	42.98		58	5.74
9	41.95	40.94		59	5.14
10	39.96	39.01		60	4.96
11	38.08	37.18		61	4.79
12	36.30	35.45		62	4.62
13	34.62	33.81		63	4.46
14	33.02	32.25		64	4.30
15	31.50	30.77		65	4.16
16	30.06	29.37		66	4.01
17	28.70	28.05		67	3.88
18	27.41	26.78		68	3.75
19	26.18	25.59		69	3.62
20	25.01	24.45		70	3.50
21	23.91	23.37		71	3.38
22	22.85	22.35		71	3.37
23	21.85	21.37		72	3.16
23 24	20.90	20.45		73 74	3.16
24 25	20.90	20.45 19.56		74 75	2.96
26	19.14	18.73		76 77	2.86
27	18.32	17.93		77 70	2.77
28	17.54	17.17		78 70	2.68
29	16.80	16.45		79	2.60
30	16.10	15.76		80	2.51

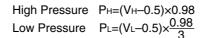
Appendix

Outdoor Unit Thermistors for Discharge Pipe (R3T)

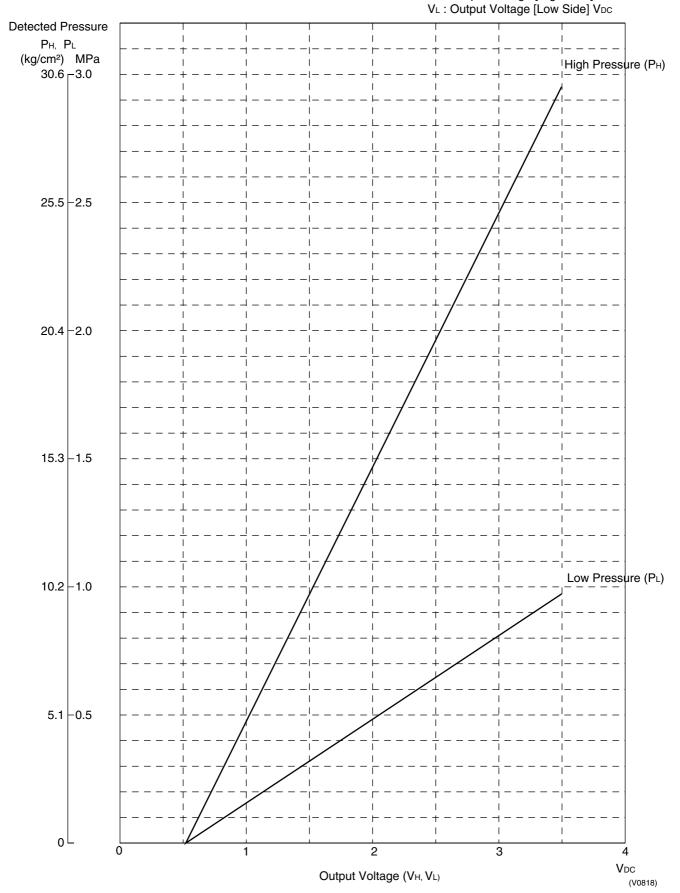
 $(k\Omega))$ 0.5 0.5 T°C 0.0 0.0 T°C 0.0 0.5 T°C 50 100 0 640.44 624.65 72.32 70.96 13.35 13.15 609.31 594.43 51 69.64 101 12.95 1 68.34 12.76 12.57 65.82 2 579.96 565.78 52 67.06 102 12.38 3 552.00 538.63 53 64.60 63.41 103 12.20 12.01 4 525.63 512.97 54 62.24 61.09 104 11.84 11.66 5 55 500.66 488.67 58.87 105 11.49 59.97 11.32 6 477.01 465.65 56 57.80 56.75 106 11.15 10.99 454.60 57 54.70 7 443.84 55.72 107 10.83 10.67 8 433.37 52.84 423.17 58 53.72 108 10.52 10.36 9 413.24 403.57 59 51.98 50.96 109 10.21 10.06 10 394.16 384.98 60 49.96 49.06 110 9.92 9.78 11 376.05 367.35 61 48.19 47.33 111 9.64 9.50 12 358.88 350.62 62 46.49 45.67 112 9.36 9.23 13 342.58 334.74 63 44.86 44.07 113 9.10 8.97 14 327 10 319.66 64 43.30 42 54 114 8 84 8 71 15 312.41 305.33 65 41.79 41.06 115 8.59 8.47 291.73 16 298.45 66 40.35 39.65 8.35 8.23 116 17 285.18 278.80 67 38.96 38.29 117 8.12 8.01 18 272.58 266.51 68 37.63 36.98 118 7.89 7.78 19 260.60 254.72 69 36.34 35.72 119 7.68 7.57 20 249.00 243.61 70 35.11 34.51 120 7.47 7.36 21 238.36 71 33.92 121 7.26 7.16 233.14 33.35 22 228.05 223.08 72 32.78 32.23 122 7.06 6.97 23 218.24 73 123 213.51 31.69 31.15 6.87 6.78 24 208.90 204.39 74 30.63 30.12 124 6.69 6.59 25 75 200.00 195.71 29.61 29.12 125 6.51 6.42 26 191.53 187.44 76 28.64 28.16 126 6.33 6.25 27 183.46 179.57 77 27.69 27.24 127 6.16 6.08 28 78 26.79 175.77 172.06 128 6.00 5.92 26.35 29 168.44 164.90 79 25.91 25.49 129 5.84 5.76 30 158.08 80 25.07 24.66 130 161.45 5.69 5.61 31 154.79 151.57 81 24.26 23.87 131 5.54 5.46 32 148.43 145.37 82 23.48 23.10 132 5.39 5.32 33 142.37 139.44 83 22.73 22.36 133 5.25 5.18 34 136.59 133.79 84 22.01 21.65 134 5.12 5.05 35 131.06 128.39 85 21.31 20.97 4.98 135 4.92 36 125.79 123.24 86 20.63 20.31 136 4.86 4.79 37 87 4.73 120.76 118.32 19.98 19.67 137 4.67 38 115.95 113.62 88 19.36 19.05 138 4.55 4.61 39 111.35 109.13 89 18.75 18.46 139 4.49 4.44 106.96 104.84 18.17 17.89 40 90 140 4.38 4.32 41 102.76 100.73 91 17.61 17.34 141 4.27 4.22 42 98.75 96.81 92 17.07 16.80 142 4.16 4.11 43 94.92 93.06 93 16.54 16.29 143 4.06 4.01 15.79 44 91.25 89.47 94 16.04 144 3.96 3.91 45 87.74 86.04 95 15.55 15.31 145 3.86 3.81 46 96 84.38 82.75 15.08 14.85 146 3.76 3.72 47 79.61 97 81.16 14.62 14.40 147 3.67 3.62 48 78.09 76.60 98 14.18 13.97 148 3.58 3.54 49 75.14 73.71 99 13.76 13.55 149 3.49 3.45 50 72.32 70.96 100 13.35 13.15 150 3.41 3.37

Si38-304 Pressure Sensor

8. Pressure Sensor



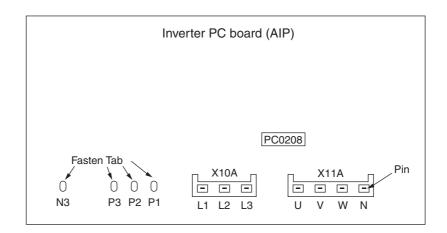
Ph: Detected Pressure [High Side] MPa PL: Detected Pressure [Low Side] MPa Vh: Output Voltage [High Side] VDc



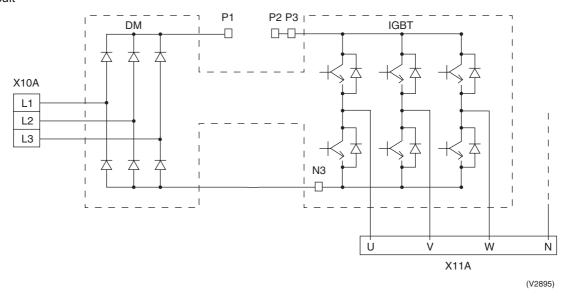
9. Method of Replacing The Inverter's Power Transistors and Diode Modules

9.1 Method of Replacing The Inverter's Power Transistors and Diode Modules

Inverter P.C.Board



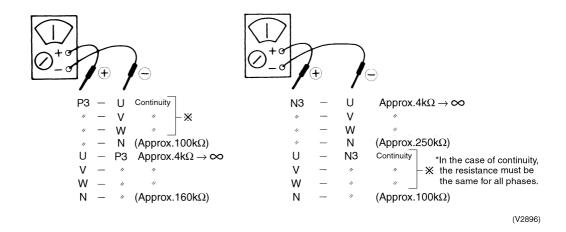
Electronic circuit



[Decision according to continuity check by analog tester]

■ Before checking, disconnect the electric wiring connected to the power transistor and diode module.

Power Transistor IGBT (On Inverter PC Board)

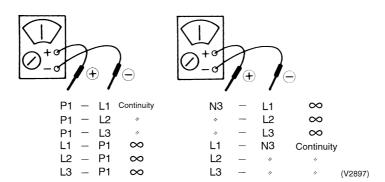


(Decision)

If other than given above, the power unit is defective and must be replaced.

Note: If using a digital tester, ∞ and continuity may be reversed.

Diode Module



(Decision)

If other than given above, the diode module is defective and must be replaced.

Note: If using a digital tester, ∞ and continuity may be reversed.

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